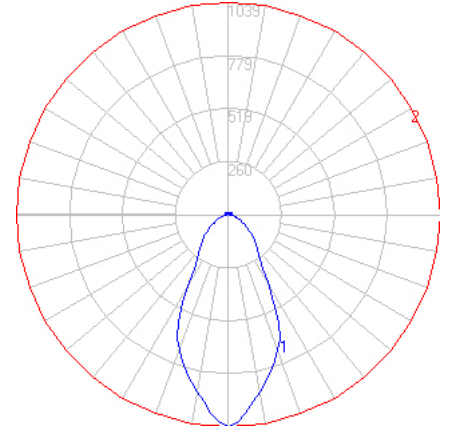
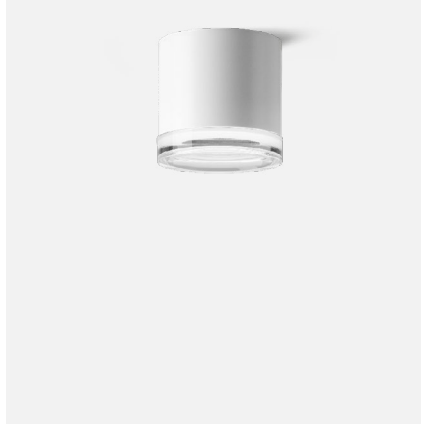


BEGA

File: 50513K4_BEGA_IES.ies

TEST: BE_50513K4
 TEST LAB: BEGA
 DATE: 07/13/2018
 LUMINAIRE: 50 513K4
 LAMP: 11.5W LED

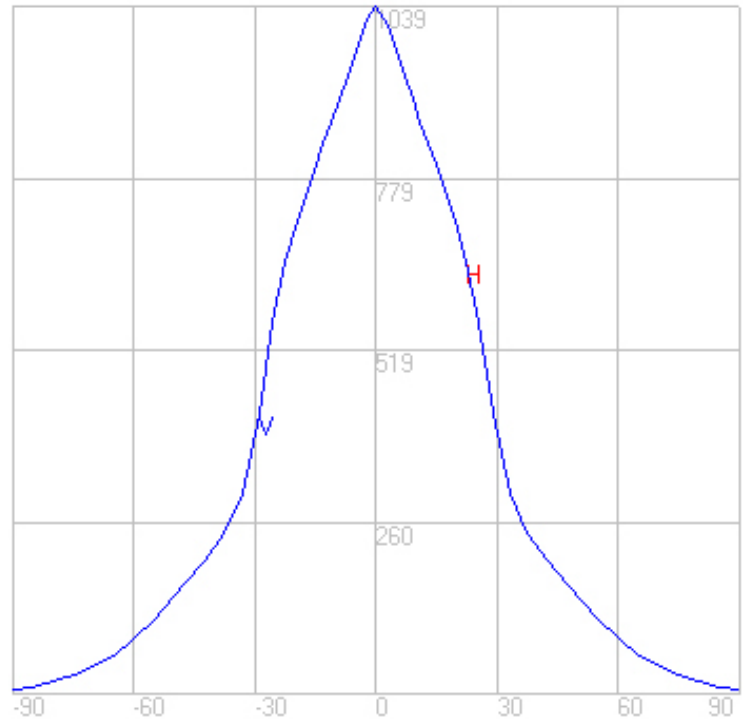
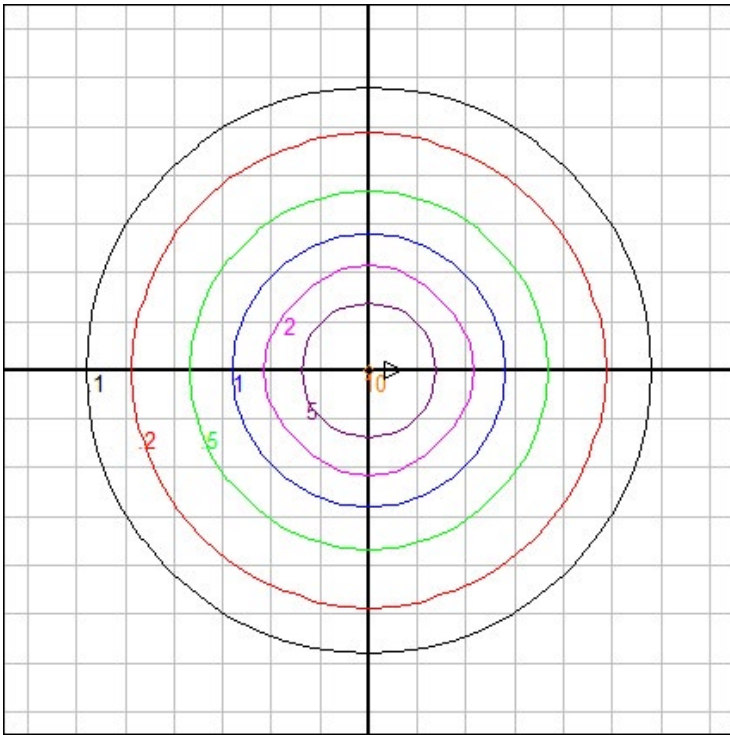


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.08 ft

Zonal Lumen Summary

Zone	Lumens
0-10	90.01
10-20	223.42
20-30	257.51
30-40	174.35
40-50	140.49
50-60	101.07
60-70	58.33
70-80	32.15
80-90	12.84
90-100	9.73
100-110	14.87
110-120	17.68
120-130	13.16
130-140	10.16
140-150	7.59
150-160	4.81
160-170	1.42
170-180	0.07



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

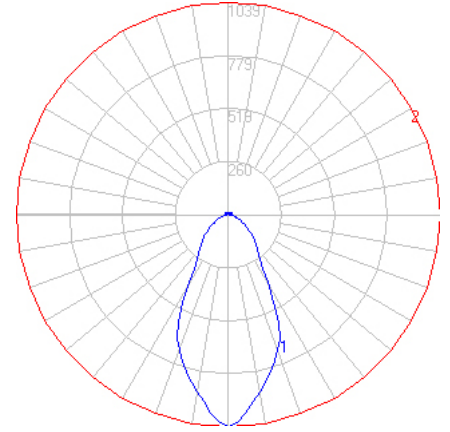
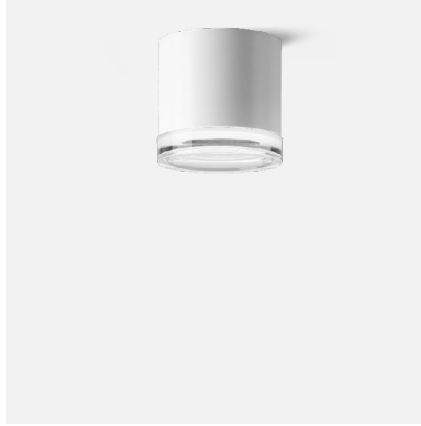
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File: 50513K35_BEGA_IES.ies

TEST: BE_50513K4
 TEST LAB: BEGA
 DATE: 07/13/2018
 LUMINAIRE: 50 513K35
 LAMP: 11.5W LED

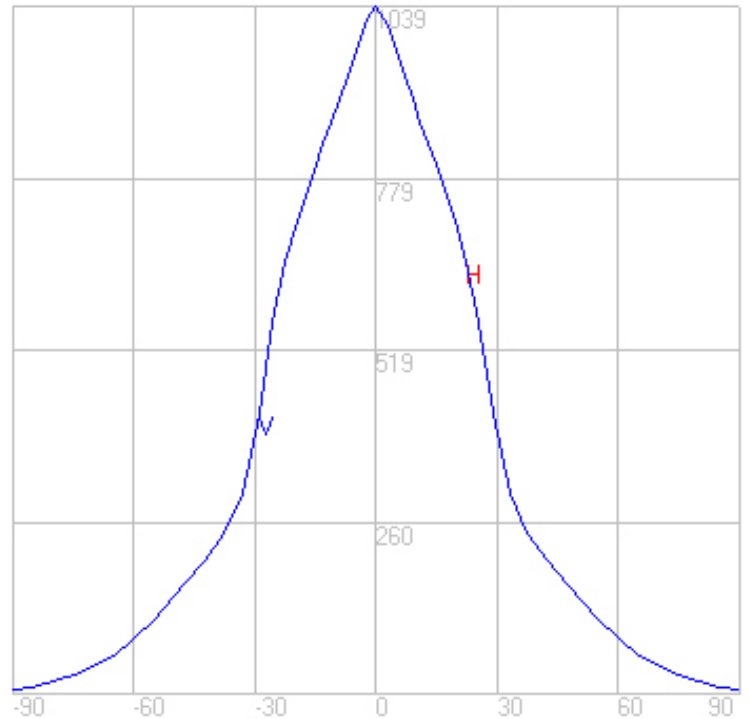
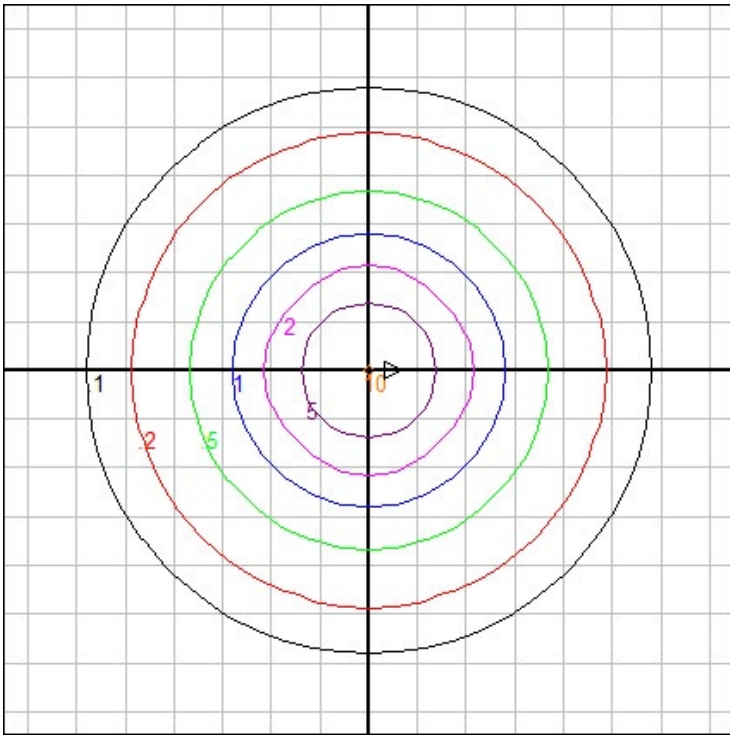


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.08 ft

Zonal Lumen Summary

Zone	Lumens
0-10	90.01
10-20	223.42
20-30	257.51
30-40	174.35
40-50	140.49
50-60	101.07
60-70	58.33
70-80	32.15
80-90	12.84
90-100	9.73
100-110	14.87
110-120	17.68
120-130	13.16
130-140	10.16
140-150	7.59
150-160	4.81
160-170	1.42
170-180	0.07



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

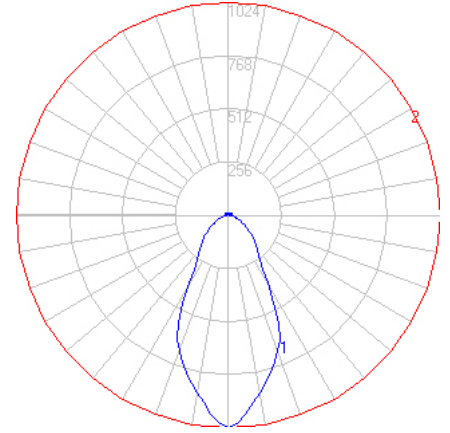
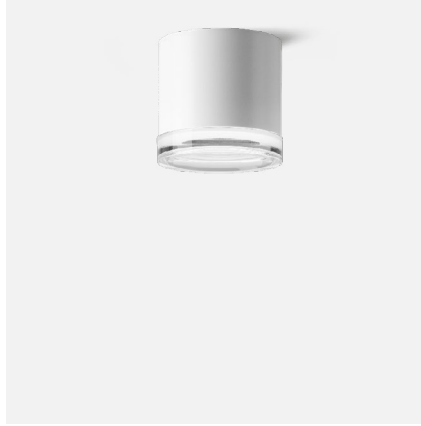
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File: 50513K3_BEGA_IES.ies

TEST: BE_50513K4
 TEST LAB: BEGA
 DATE: 07/13/2018
 LUMINAIRE: 50 513K3
 LAMP: 11.5W LED

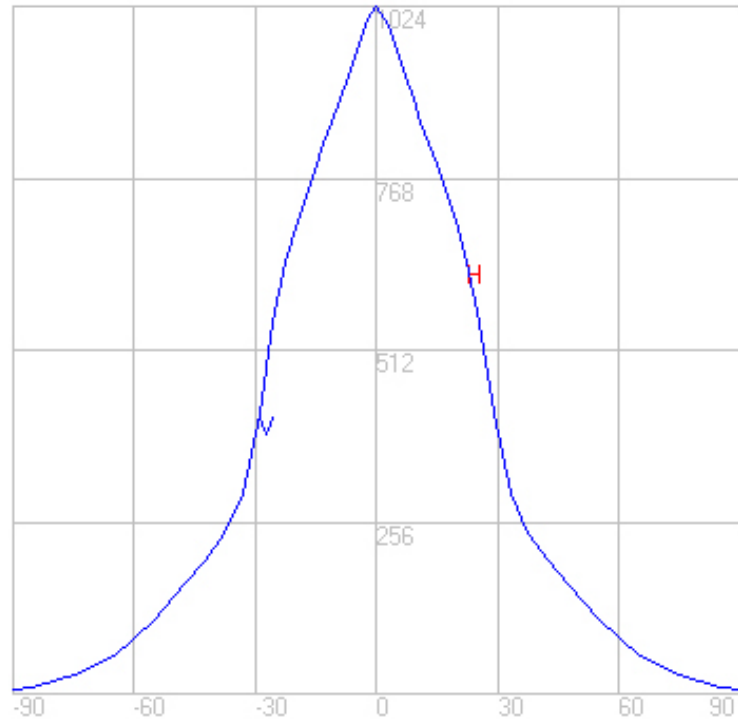
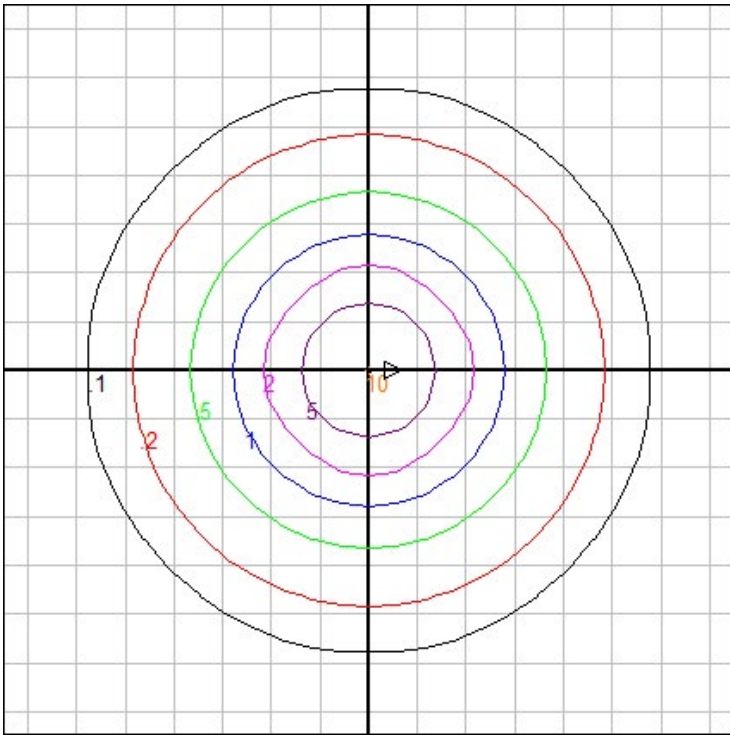


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.08 ft

Zonal Lumen Summary

Zone	Lumens
0-10	88.75
10-20	220.30
20-30	253.91
30-40	171.91
40-50	138.52
50-60	99.65
60-70	57.51
70-80	31.70
80-90	12.66
90-100	9.59
100-110	14.67
110-120	17.43
120-130	12.98
130-140	10.02
140-150	7.49
150-160	4.75
160-170	1.40
170-180	0.07



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

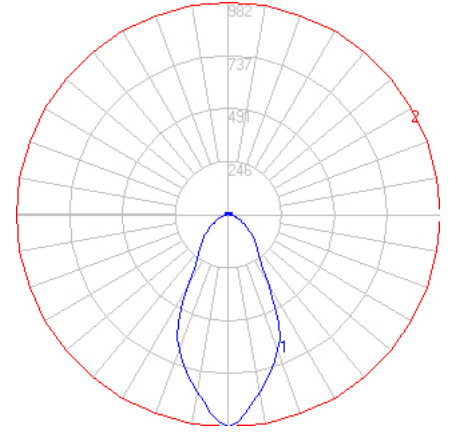
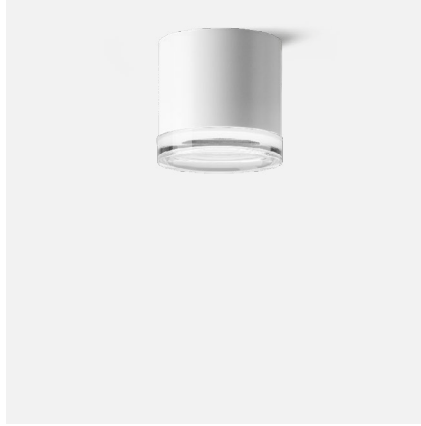
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BEGA

File: 50513K27_BEGA_IES.ies

TEST: BE_50513K4
 TEST LAB: BEGA
 DATE: 07/13/2018
 LUMINAIRE: 50 513K27
 LAMP: 11.5W LED

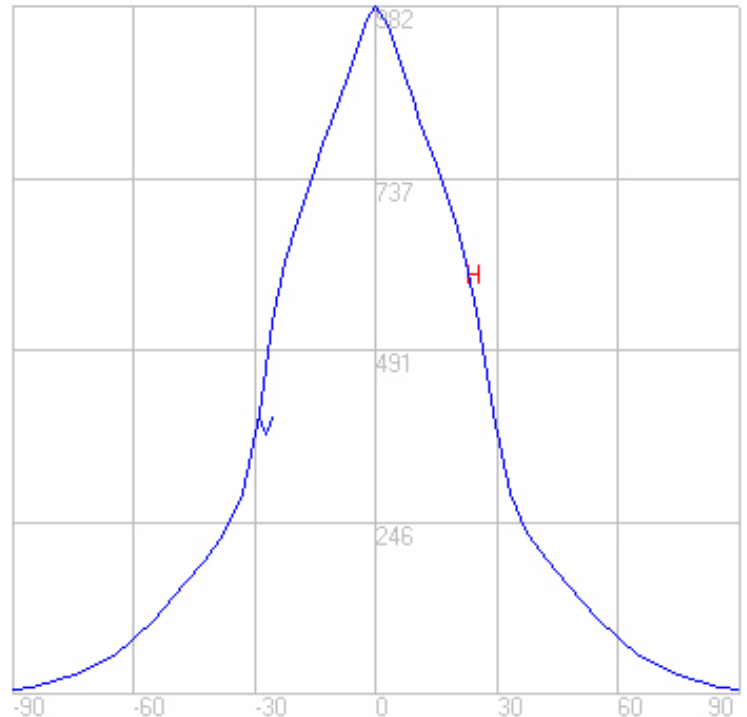
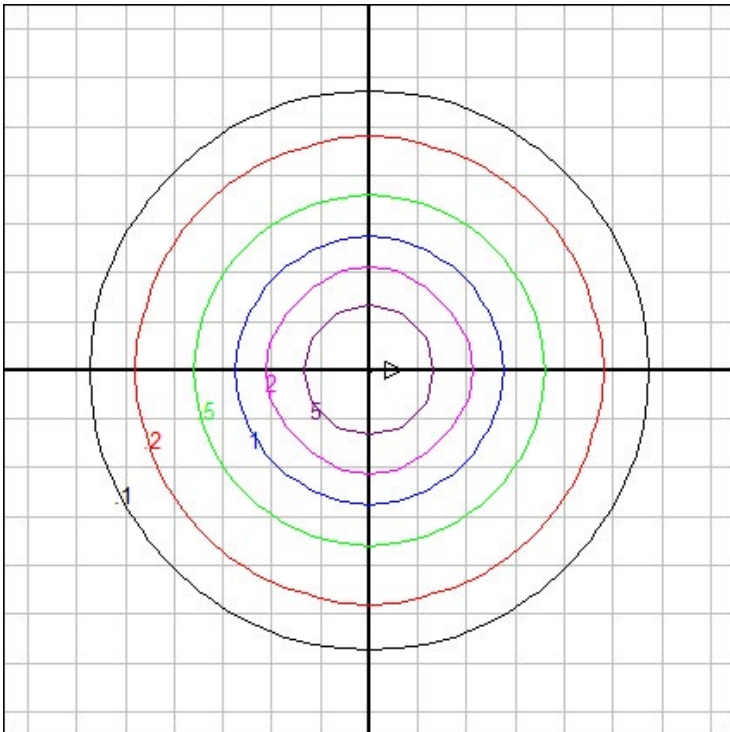


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.08 ft

Zonal Lumen Summary

Zone	Lumens
0-10	85.15
10-20	211.36
20-30	243.61
30-40	164.93
40-50	132.90
50-60	95.61
60-70	55.18
70-80	30.41
80-90	12.15
90-100	9.21
100-110	14.07
110-120	16.72
120-130	12.45
130-140	9.61
140-150	7.18
150-160	4.55
160-170	1.34
170-180	0.07



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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