

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P942707

Luminaire Tested: **GALN-SB6D-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

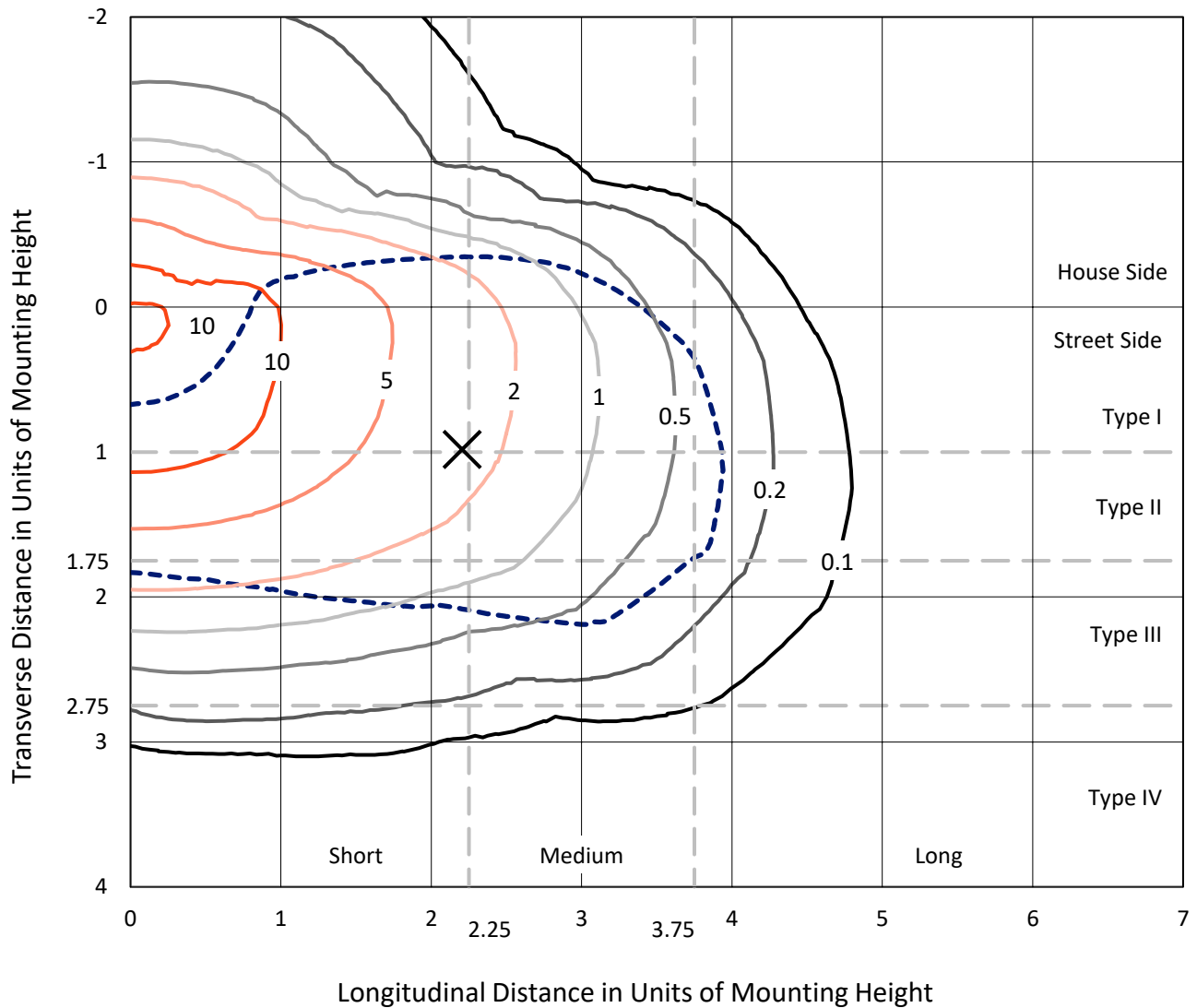
Lumens per Lamp: N/A  
Luminaire Lumens: 55485 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

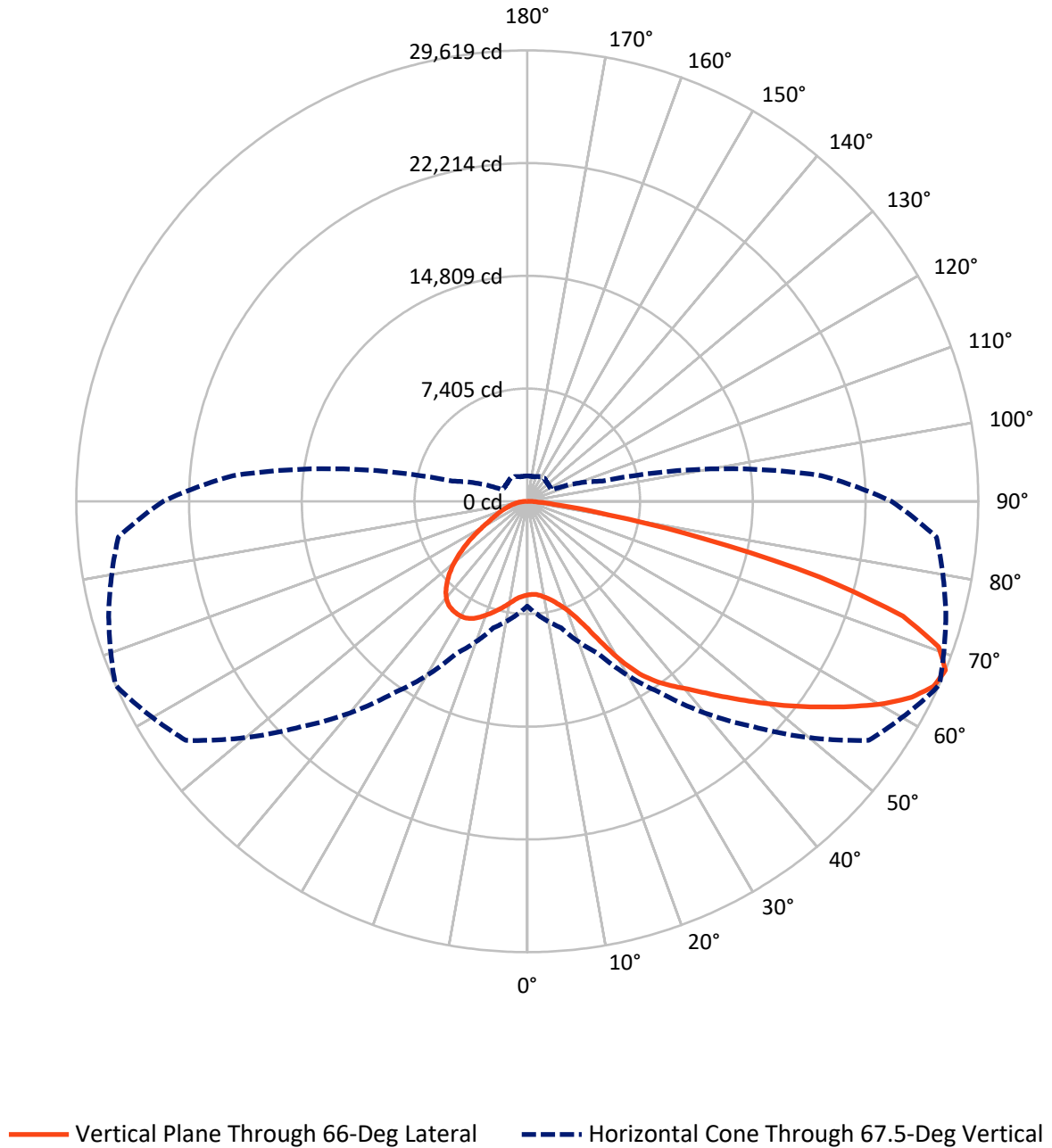
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13796.2	0.0	13796.2
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	41688.8	0.0	41688.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	55485.0	0.0	55485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.1	1.1
10°-20°	2015.8	3.6
20°-30°	3885.4	7.0
30°-40°	6812.6	12.3
40°-50°	10128.1	18.3
50°-60°	12838.3	23.1
60°-70°	12562.0	22.6
70°-80°	5992.2	10.8
80°-90°	640.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	55485.0	100.0
0°-180°	55485.0	100.0

**Coefficient of Utilization**



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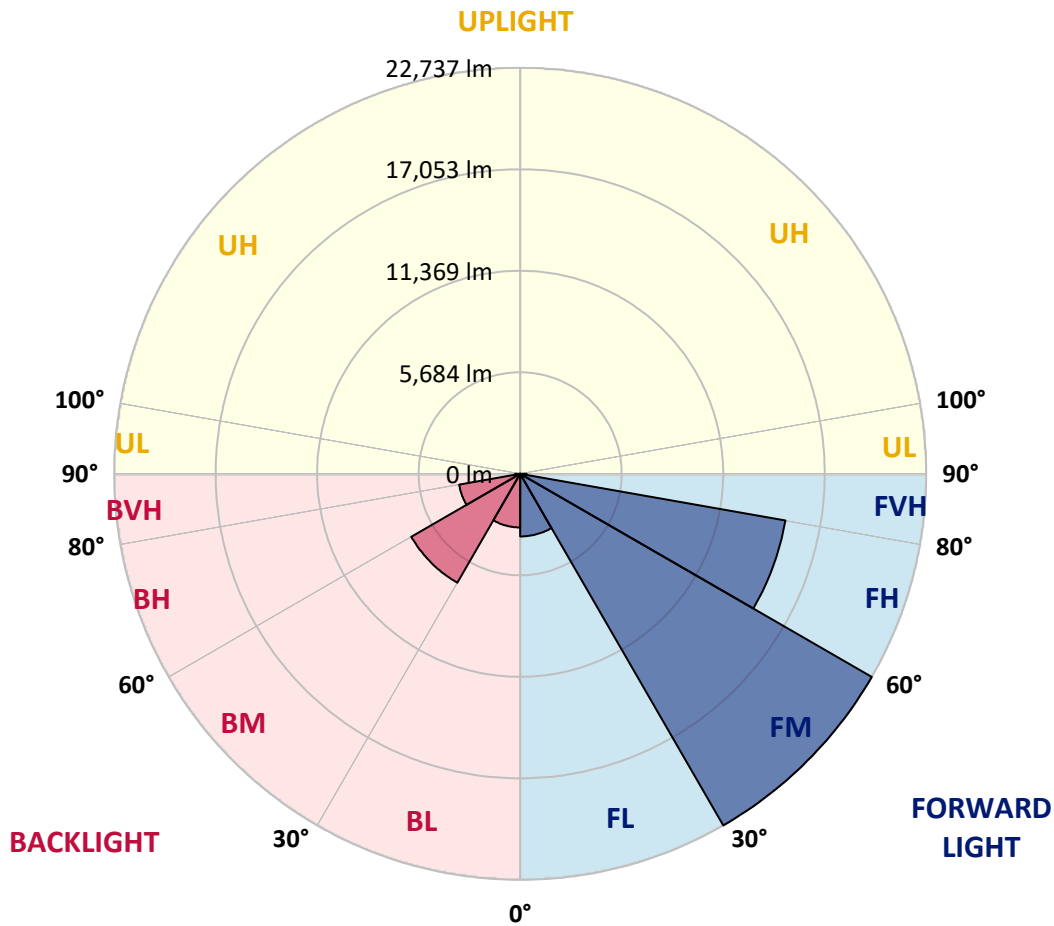
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3506.1	6.3			
FM (30°-60°)	22737.3	41.0			
FH (60°-80°)	15082.3	27.2			G5
FVH (80°-90°)	363.1	0.7			G3/500
BL (0°-30°)	3005.3	5.4	B4/5000		
BM (30°-60°)	7041.7	12.7	B4/8500		
BH (60°-80°)	3471.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	277.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0
2.5°	6089.9	6124.9	6116.1	6101.5	6098.6	6104.5	6113.2	6122.0	6119.0	6133.6
5°	6072.4	6107.4	6104.5	6104.5	6116.1	6139.4	6154.0	6168.6	6154.0	6171.5
7.5°	6084.1	6110.3	6122.0	6133.6	6162.8	6206.5	6241.5	6273.5	6256.1	6276.5
10°	6232.7	6253.1	6264.8	6264.8	6285.2	6334.8	6369.7	6428.1	6413.5	6445.5
12.5°	6503.8	6524.3	6524.3	6512.6	6527.2	6559.2	6570.9	6635.0	6608.8	6661.3
15°	6836.2	6877.0	6844.9	6824.5	6830.3	6862.4	6859.5	6909.1	6882.8	6926.6
17.5°	7203.5	7256.0	7203.5	7200.6	7188.9	7223.9	7226.8	7270.5	7223.9	7256.0
20°	7637.9	7710.7	7667.0	7681.6	7655.4	7669.9	7684.5	7748.6	7675.8	7699.1
22.5°	8250.1	8337.5	8290.9	8346.3	8328.8	8317.1	8314.2	8427.9	8314.2	8322.9
25°	9142.1	9247.1	9165.4	9241.2	9241.2	9279.1	9322.9	9468.6	9279.1	9223.7
27.5°	10459.8	10564.7	10404.4	10451.0	10436.5	10529.8	10483.1	10844.6	10640.5	10550.2
30°	12045.7	12232.2	11929.1	11917.4	11902.8	12051.5	12118.6	12357.6	12150.6	12060.2
32.5°	13759.8	13955.1	13593.6	13488.7	13433.3	13523.7	13468.3	13660.7	13517.9	13377.9
35°	15573.1	15765.5	15421.5	15217.4	14995.9	14806.4	14608.1	14657.7	14523.6	14310.8
37.5°	17287.2	17640.0	17275.6	17056.9	16648.8	16278.6	15724.7	15494.4	15369.0	15173.7
40°	19033.4	19234.6	18957.6	18771.1	18328.0	17747.8	16861.6	16374.8	16205.7	16016.2
42.5°	20319.1	20511.5	20362.8	20234.5	19887.6	19214.2	18068.5	17459.2	17214.3	17001.5
45°	21339.4	21482.2	21388.9	21435.6	21286.9	20633.9	19319.1	18622.4	18368.8	18109.3
47.5°	21750.4	21902.0	22050.7	22327.6	22581.3	22100.2	20663.0	19881.8	19613.6	19348.3
50°	21703.8	21858.3	22289.7	22878.6	23665.7	23505.4	22079.8	21222.8	20975.0	20671.8
52.5°	21330.6	21505.5	22059.4	23038.9	24292.5	24557.8	23522.9	22607.5	22374.3	22012.8
55°	20351.1	20456.1	21286.9	22674.5	24441.2	25292.4	24936.8	24082.6	23849.4	23345.0
57.5°	18534.9	18686.5	19896.3	21692.1	24068.0	25790.9	26178.6	25633.5	25409.0	24683.1
60°	16164.9	16406.8	17791.6	20042.1	23117.7	25788.0	27306.8	27158.1	26971.6	26000.8
62.5°	13482.9	13762.7	15095.0	17709.9	21456.0	25056.3	28012.3	28435.0	28338.8	27216.5
65°	10354.8	10547.2	11873.7	14692.7	18870.2	23485.0	28093.9	29306.7	29324.2	28140.6
67.5°	6894.5	7448.4	8599.9	11025.3	15406.9	20916.7	27376.8	29449.5	29618.6	28458.3
70°	3364.2	4093.0	5221.2	7165.6	11025.3	16978.2	25502.3	28277.6	28653.7	27531.3
72.5°	1396.4	1632.5	2247.6	3536.2	6328.9	11456.8	21735.8	25100.0	25796.7	24394.5
75°	941.6	1020.3	1285.6	1813.3	2883.1	5649.7	15675.1	18715.7	19838.0	18424.2
77.5°	725.9	775.4	935.8	1268.1	1714.1	2136.9	8390.0	11279.0	11859.1	10978.7
80°	571.4	609.3	699.7	924.1	1215.6	1142.8	2859.8	5110.4	5445.6	4568.1
82.5°	495.6	510.2	501.4	626.8	807.5	667.6	938.7	1886.1	2081.5	1510.1
85°	358.6	399.4	416.9	387.7	428.5	338.2	384.8	667.6	734.6	655.9
87.5°	145.8	215.7	265.3	250.7	157.4	96.2	119.5	195.3	224.5	244.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6154.0	0°	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0	6154.0
6156.9	2.5°	6159.9	6180.3	6194.8	6212.3	6224.0	6241.5	6276.5	6296.9	6299.8	6314.4
6203.6	5°	6215.2	6244.4	6276.5	6323.1	6375.6	6419.3	6486.4	6533.0	6550.5	6565.1
6317.3	7.5°	6334.8	6375.6	6433.9	6515.5	6591.3	6649.6	6731.2	6786.6	6842.0	6862.4
6498.0	10°	6512.6	6570.9	6655.4	6766.2	6847.8	6923.6	7008.2	7054.8	7110.2	7133.5
6713.7	12.5°	6734.1	6795.4	6906.1	7060.7	7136.4	7188.9	7218.1	7206.4	7218.1	7238.5
6973.2	15°	6987.8	7054.8	7180.2	7346.3	7398.8	7352.2	7288.0	7229.7	7221.0	7226.8
7288.0	17.5°	7288.0	7337.6	7483.4	7623.3	7585.4	7393.0	7253.1	7159.8	7113.1	7098.5
7690.3	20°	7707.8	7707.8	7827.4	7914.8	7661.2	7334.7	7116.0	6964.4	6868.2	6827.4
8238.4	22.5°	8218.0	8171.3	8247.1	8185.9	7646.6	7171.4	6868.2	6605.9	6460.1	6401.8
9005.1	25°	8865.2	8809.8	8789.4	8410.4	7541.7	6912.0	6419.3	6101.5	5973.3	5941.2
10110.0	27.5°	9841.8	9701.8	9436.6	8532.8	7349.3	6503.8	5894.6	5600.1	5527.2	5530.2
11529.7	30°	11142.0	10862.1	10212.0	8553.2	7034.4	5926.6	5358.2	5148.3	5113.3	5127.9
12722.0	32.5°	12345.9	12080.7	11004.9	8460.0	6550.5	5361.1	4877.2	4737.2	4684.8	4702.2
13631.5	35°	13290.5	13217.6	11739.6	8328.8	5955.8	4830.5	4445.7	4326.2	4224.1	4200.8
14488.6	37.5°	14182.5	14153.4	12290.5	8145.1	5366.9	4454.4	4098.8	3941.4	3792.7	3711.1
15436.1	40°	15162.0	15132.9	12652.0	7862.3	4845.1	4127.9	3786.9	3579.9	3396.2	3247.5
16508.9	42.5°	16264.0	16092.0	12824.0	7457.1	4402.0	3851.0	3533.2	3253.4	3011.4	2874.4
17721.6	45°	17468.0	17080.2	12821.1	6941.1	4028.8	3597.4	3262.1	2865.7	2641.2	2512.9
18966.4	47.5°	18744.8	18024.8	12663.7	6369.7	3667.3	3317.5	2842.3	2539.2	2390.5	2311.8
20319.1	50°	20062.5	18908.1	12395.5	5713.8	3297.1	2999.8	2580.0	2373.0	2259.3	2186.4
21660.1	52.5°	21301.5	19709.8	12071.9	4970.4	2921.0	2690.7	2463.4	2303.0	2183.5	2101.9
22960.2	55°	22453.0	20400.7	11614.2	4209.6	2614.9	2483.8	2408.0	2273.9	2136.9	2040.7
24280.8	57.5°	23476.2	20849.6	10824.2	3495.3	2396.3	2340.9	2349.7	2224.3	2066.9	1985.3
25581.0	60°	24327.5	21179.0	9655.2	2833.6	2218.5	2201.0	2259.3	2131.0	1947.4	1854.1
26680.1	62.5°	24837.6	21173.2	8220.9	2320.5	2066.9	2072.7	2139.8	2014.4	1827.8	1740.4
27254.3	65°	24793.9	20654.3	6646.7	1985.3	1921.1	1927.0	2014.4	1886.1	1728.7	1676.2
26965.7	67.5°	23916.4	19389.1	5098.7	1766.6	1760.8	1787.0	1889.1	1798.7	1667.5	1661.7
25245.8	70°	21540.5	16762.5	3673.2	1591.7	1594.6	1632.5	1766.6	1743.3	1635.4	1647.1
21225.7	72.5°	17272.7	12780.3	2466.3	1408.0	1411.0	1472.2	1650.0	1699.6	1603.4	1757.9
15060.0	75°	11503.4	7970.2	1585.9	1212.7	1215.6	1294.4	1548.0	1615.0	1515.9	1752.0
7836.1	77.5°	5527.2	3582.8	1148.6	1020.3	1020.3	1093.2	1338.1	1445.9	1291.4	1361.4
2518.7	80°	1909.5	1346.8	903.7	822.1	804.6	854.2	1128.2	1253.5	1113.6	1026.2
822.1	82.5°	752.1	699.7	725.9	638.4	580.1	612.2	877.5	1034.9	819.2	740.5
463.5	85°	431.5	454.8	513.1	422.7	335.2	376.1	644.3	743.4	618.0	545.1
151.6	87.5°	116.6	160.3	236.1	218.6	151.6	160.3	306.1	411.0	355.7	274.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°  
6154.0  
6311.4  
6562.1  
6865.3  
7145.2  
7244.3  
7247.2  
7119.0  
6818.7  
6393.1  
5947.0  
5538.9  
5177.4  
4725.6  
4218.3  
3714.0  
3262.1  
2883.1  
2507.1  
2294.3  
2160.2  
2066.9  
2002.8  
1932.8  
1813.3  
1714.1  
1673.3  
*1670.4*  
1644.2  
1781.2  
1766.6  
1247.7  
962.0  
737.5  
556.8  
282.8  
0.0

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