

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: P942318

Luminaire Tested: **GALN-SB6B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

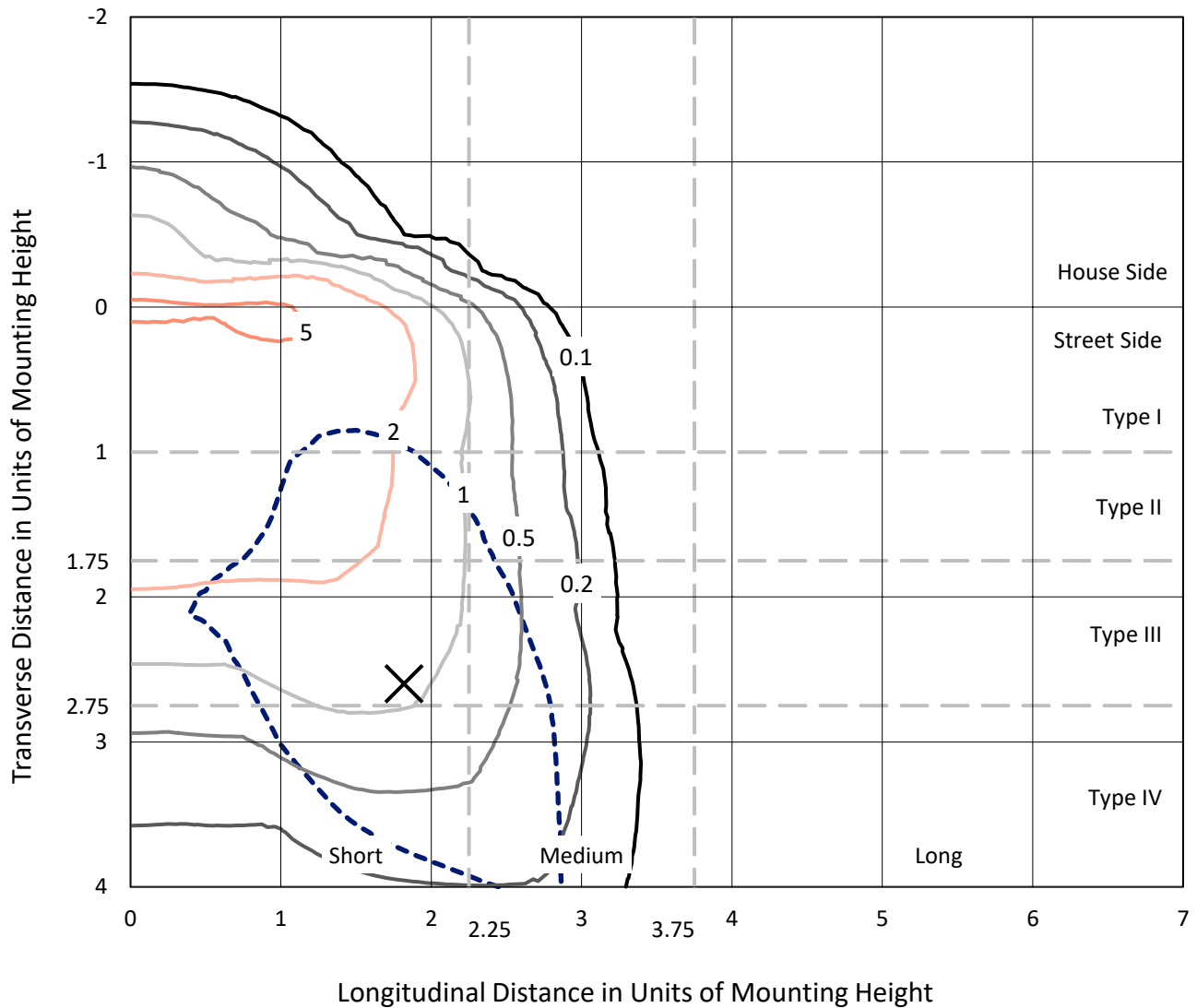
Lumens per Lamp: N/A  
Luminaire Lumens: 25854 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

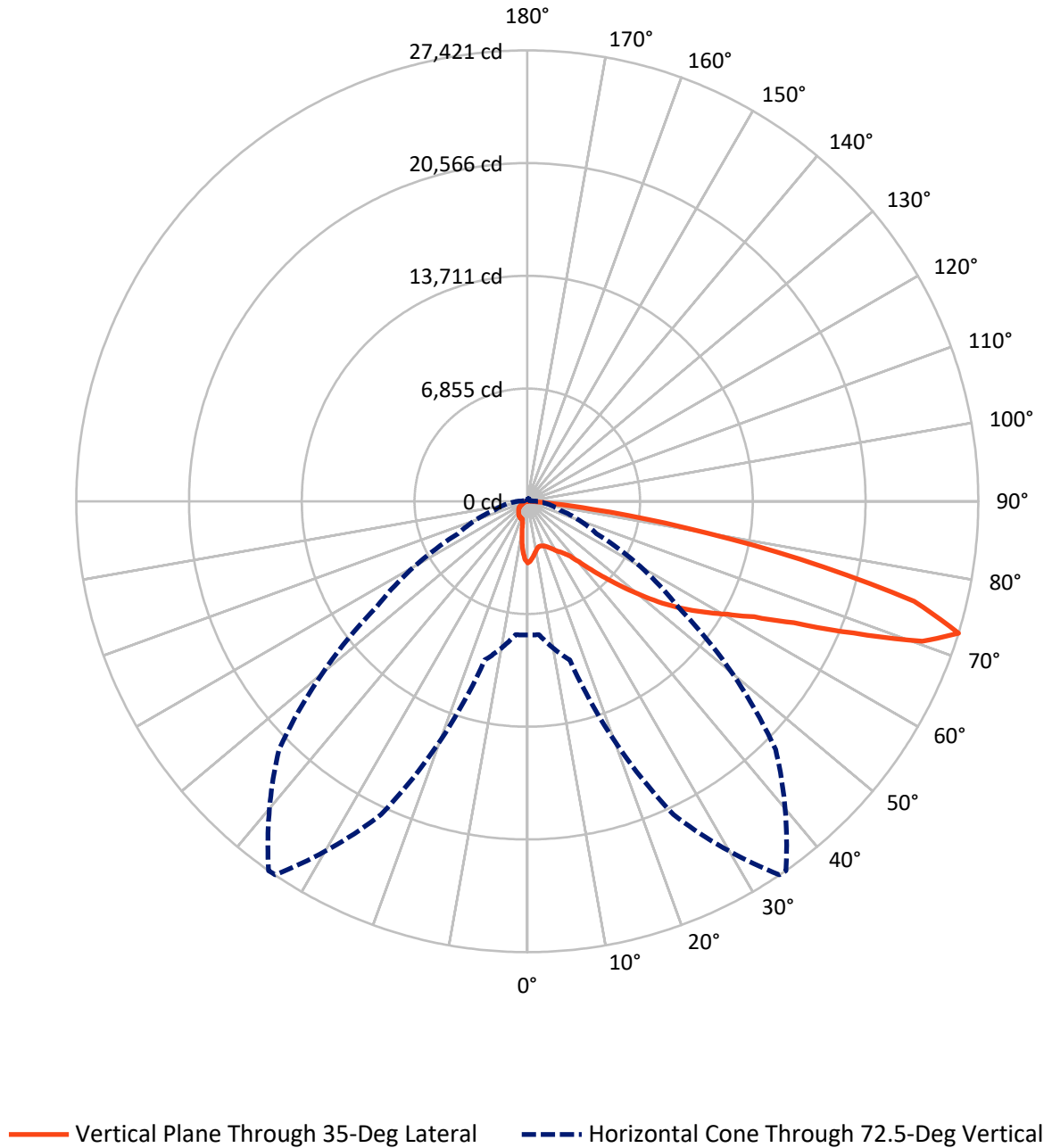
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - 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	2909.7	0.0	2909.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	22944.2	0.0	22944.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	25854.0	0.0	25854.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.9	1.2
10°-20°	720.3	2.8
20°-30°	1170.2	4.5
30°-40°	1952.4	7.6
40°-50°	3694.0	14.3
50°-60°	5869.7	22.7
60°-70°	7261.2	28.1
70°-80°	4513.6	17.5
80°-90°	364.8	1.4
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°	25854.0	100.0
0°-180°	25854.0	100.0



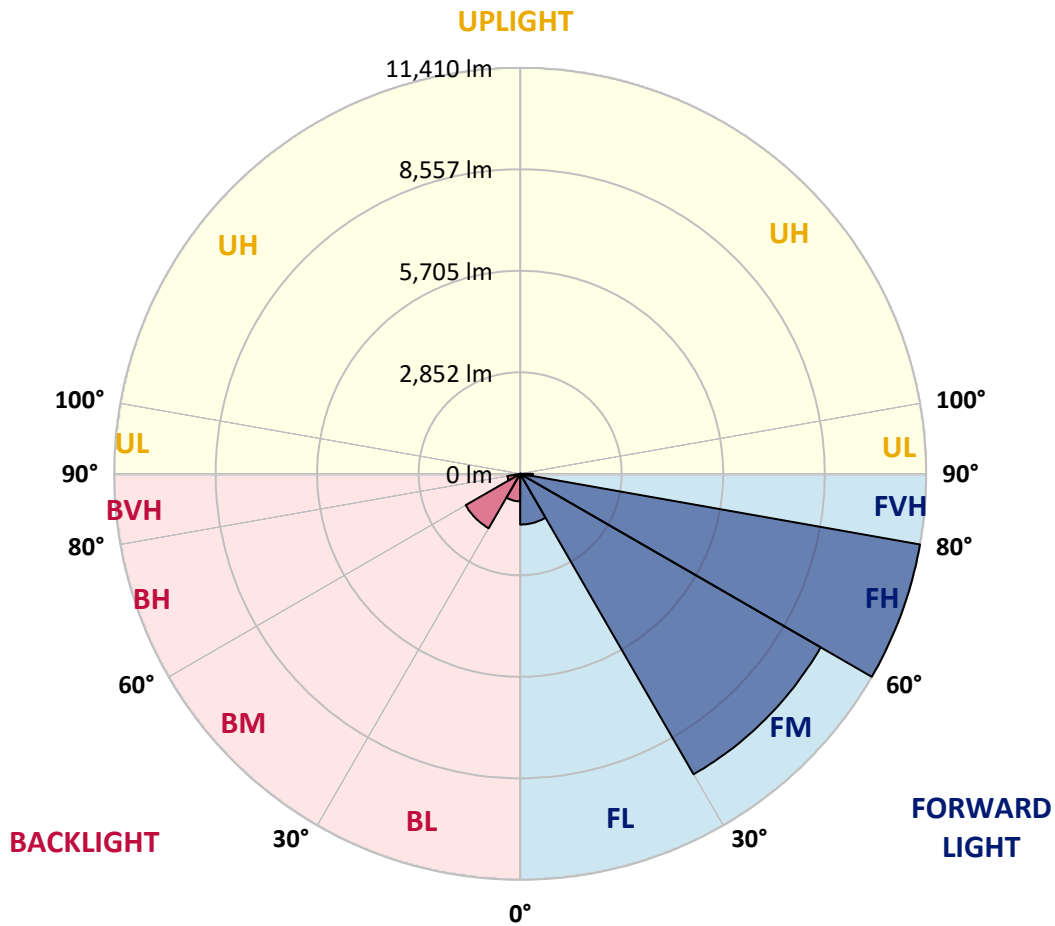
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.2	5.5			
FM (30°-60°)	9749.5	37.7			
FH (60°-80°)	11409.7	44.1			G4/12000
FVH (80°-90°)	359.8	1.4			G3/500
BL (0°-30°)	773.2	3.0	B2/1000		
BM (30°-60°)	1766.5	6.8	B2/2500		
BH (60°-80°)	365.1	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1
2.5°	3580.4	3610.7	3616.4	3625.9	3625.9	3637.2	3656.2	3682.7	3726.3	3749.0
5°	3300.0	3322.8	3351.2	3373.9	3417.5	3423.2	3497.1	3569.0	3669.4	3745.2
7.5°	3017.8	3044.3	3082.2	3137.1	3193.9	3211.0	3322.8	3444.0	3603.1	3745.2
10°	2818.9	2820.8	2854.9	2909.8	3000.7	3021.6	3158.0	3330.3	3529.3	3722.5
12.5°	2707.1	2720.3	2735.5	2777.2	2864.3	2877.6	3023.5	3226.2	3455.4	3709.2
15°	2707.1	2716.6	2726.0	2746.9	2817.0	2828.3	2957.1	3159.8	3417.5	3714.9
17.5°	2735.5	2750.7	2743.1	2767.7	2841.6	2849.2	2962.8	3140.9	3415.6	3750.9
20°	2803.7	2815.1	2799.9	2815.1	2889.0	2904.1	3021.6	3176.9	3447.8	3813.4
22.5°	2911.7	2917.4	2881.4	2892.7	2968.5	2987.5	3123.9	3279.2	3525.5	3913.8
25°	3048.1	3059.4	3004.5	3017.8	3089.8	3112.5	3269.7	3432.6	3648.6	4052.1
27.5°	3205.3	3211.0	3163.6	3161.7	3254.6	3286.8	3445.9	3622.1	3813.4	4226.4
30°	3385.3	3402.3	3356.9	3349.3	3466.7	3493.3	3650.5	3855.1	4055.9	4487.8
32.5°	3527.4	3540.6	3514.1	3533.0	3652.4	3673.2	3898.7	4184.7	4436.7	4859.1
35°	3732.0	3739.5	3678.9	3713.0	3849.4	3902.5	4237.8	4646.9	4916.0	5325.1
37.5°	4472.7	4472.7	4215.0	4046.4	4177.1	4224.5	4701.9	5228.5	5507.0	5950.3
40°	5497.5	5480.5	5103.5	4758.7	4741.7	4834.5	5363.0	5961.7	6270.4	6700.5
42.5°	6590.6	6564.1	6050.7	5709.7	5652.9	5685.1	6126.5	6865.3	7179.8	7615.5
45°	7560.5	7552.9	7083.1	6624.7	6522.4	6624.7	7079.4	7922.4	8147.8	8606.2
47.5°	8373.2	8373.2	8030.3	7731.0	7678.0	7738.6	8369.4	9095.0	9074.1	9661.4
50°	9309.1	9301.5	8975.6	8846.8	8901.8	8987.0	9854.6	10330.1	10032.7	10697.6
52.5°	9964.5	10010.0	9898.2	9877.4	10157.7	10305.5	11362.6	11538.8	10890.9	11680.8
55°	10483.6	10536.6	10665.4	10811.3	11351.2	11544.4	12823.2	12684.9	11608.8	12533.3
57.5°	11218.6	11142.8	11341.7	11629.7	12503.0	12736.0	14238.3	13766.6	12186.6	13224.8
60°	12110.9	12122.2	12156.3	12520.1	13652.9	13952.2	15632.5	14789.5	12557.9	13649.1
62.5°	13183.1	13200.1	13270.2	13829.1	15196.8	15479.1	17117.7	15626.9	12728.4	13529.8
65°	13109.2	13181.2	13963.6	15875.0	17544.0	17822.5	18851.1	16214.1	12470.8	12438.6
67.5°	11942.3	12059.7	13368.7	18318.8	21082.7	21393.4	20946.3	16329.7	11358.8	9672.8
70°	10411.6	10453.3	12027.5	20516.3	25180.3	25494.8	22821.8	15058.5	8619.5	5395.2
72.5°	8130.7	8140.2	9987.2	21025.9	27404.3	27421.4	21349.8	11178.8	4635.6	2072.5
75°	5808.2	5751.4	6689.1	17051.4	24110.0	24303.2	16005.7	5243.7	1771.3	979.4
77.5°	3114.4	3176.9	3785.0	10112.3	16655.5	16985.1	8733.2	1511.7	901.7	666.8
80°	962.4	1015.4	1551.5	4629.9	9434.1	9633.0	3237.5	672.5	628.9	475.5
82.5°	303.1	314.5	723.7	1945.5	3915.7	4006.6	937.7	380.8	430.0	314.5
85°	87.1	89.0	322.0	725.6	968.0	987.0	263.3	147.8	246.3	195.1
87.5°	9.5	30.3	121.2	121.2	85.2	83.4	28.4	32.2	70.1	24.6
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°
3747.1	0°	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1	3747.1
3764.2	2.5°	3754.7	3756.6	3732.0	3690.3	3644.8	3606.9	3559.6	3521.7	3495.2	3487.6
3798.3	5°	3781.2	3767.9	3697.9	3570.9	3419.4	3288.7	3142.8	3027.2	2951.5	2919.3
3834.3	7.5°	3821.0	3783.1	3629.7	3379.6	3089.8	2832.1	2570.7	2368.0	2239.2	2174.8
3868.4	10°	3855.1	3779.3	3516.0	3103.0	2659.7	2269.5	1917.1	1672.7	1536.4	1471.9
3908.1	12.5°	3887.3	3777.4	3368.2	2775.3	2174.8	1697.4	1369.6	1248.4	1210.5	1197.3
3972.5	15°	3947.9	3783.1	3182.6	2400.2	1691.7	1282.5	1163.2	1161.3	1168.8	1165.1
4071.1	17.5°	4031.3	3788.8	2972.3	2002.4	1305.2	1131.0	1125.3	1142.3	1153.7	1148.0
4194.2	20°	4139.3	3811.5	2748.8	1608.3	1121.5	1093.1	1106.3	1121.5	1131.0	1121.5
4359.0	22.5°	4290.8	3851.3	2504.4	1292.0	1062.8	1070.3	1081.7	1098.7	1108.2	1095.0
4569.3	25°	4476.5	3913.8	2263.8	1123.4	1034.3	1043.8	1060.9	1079.8	1091.2	1077.9
4834.5	27.5°	4717.0	4014.2	2042.2	1085.5	1005.9	1011.6	1036.2	1064.6	1079.8	1062.8
5211.5	30°	5065.6	4179.0	1850.8	1102.5	988.9	975.6	1009.7	1049.5	1066.5	1051.4
5724.9	32.5°	5527.8	4412.0	1733.4	1129.1	981.3	933.9	966.1	1017.3	1045.7	1036.2
6395.5	35°	6134.0	4766.3	1687.9	1159.4	975.6	890.4	913.1	968.0	1017.3	1026.8
7240.4	37.5°	6869.1	5258.8	1701.2	1172.6	958.6	854.4	865.7	913.1	977.5	1007.8
8191.4	40°	7704.5	5832.8	1776.9	1159.4	939.6	824.1	826.0	861.9	918.8	964.2
9214.3	42.5°	8566.4	6503.5	1917.1	1110.1	922.6	797.5	791.9	816.5	854.4	886.6
10235.4	45°	9386.7	7193.0	2055.4	1041.9	901.7	771.0	757.8	767.2	774.8	788.1
11230.0	47.5°	10102.8	7678.0	2015.6	979.4	873.3	740.7	718.0	714.2	691.5	689.6
12118.4	50°	10597.2	7784.1	1790.2	916.9	831.6	706.6	670.6	647.9	608.1	589.2
12783.4	52.5°	10754.5	7365.4	1462.5	854.4	763.4	661.1	610.0	574.0	524.7	507.7
13166.0	55°	10546.1	6545.1	1168.8	778.6	668.7	600.5	543.7	496.3	456.5	435.7
13207.7	57.5°	10036.5	5501.3	924.5	689.6	568.3	532.3	475.5	428.1	394.0	373.2
12745.5	60°	9191.6	4368.5	731.2	583.5	485.0	458.4	399.7	369.4	339.1	314.5
11552.0	62.5°	7909.1	3118.2	574.0	462.2	405.4	375.1	341.0	318.3	282.3	248.2
9405.7	65°	6171.9	1907.7	443.3	339.1	325.8	310.7	289.8	269.0	225.4	191.3
6135.9	67.5°	3893.0	903.6	316.4	255.7	257.6	250.1	240.6	223.5	191.3	161.0
2748.8	70°	1714.4	437.6	208.4	195.1	191.3	191.3	198.9	193.2	162.9	134.5
954.8	72.5°	583.5	234.9	155.3	147.8	138.3	136.4	166.7	161.0	130.7	104.2
475.5	75°	305.0	157.2	113.7	106.1	83.4	100.4	132.6	125.0	92.8	68.2
314.5	77.5°	198.9	111.8	77.7	68.2	47.4	66.3	98.5	87.1	54.9	34.1
206.5	80°	125.0	73.9	45.5	32.2	22.7	36.0	53.0	37.9	20.8	7.6
121.2	82.5°	66.3	37.9	17.0	11.4	9.5	11.4	13.3	9.5	3.8	0.0
62.5	85°	26.5	13.3	5.7	3.8	1.9	0.0	3.8	1.9	0.0	0.0
11.4	87.5°	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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<u>180°</u>
3747.1
3500.8
2930.6
2184.2
1473.8
1193.5
1163.2
1146.1
1119.6
1093.1
1076.0
1062.8
1049.5
1036.2
1026.8
1015.4
979.4
899.8
795.6
687.7
591.1
505.8
435.7
369.4
308.8
242.5
185.7
157.2
128.8
98.5
62.5
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