

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: P952178

Luminaire Tested: **GALN-SB6A-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19435 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

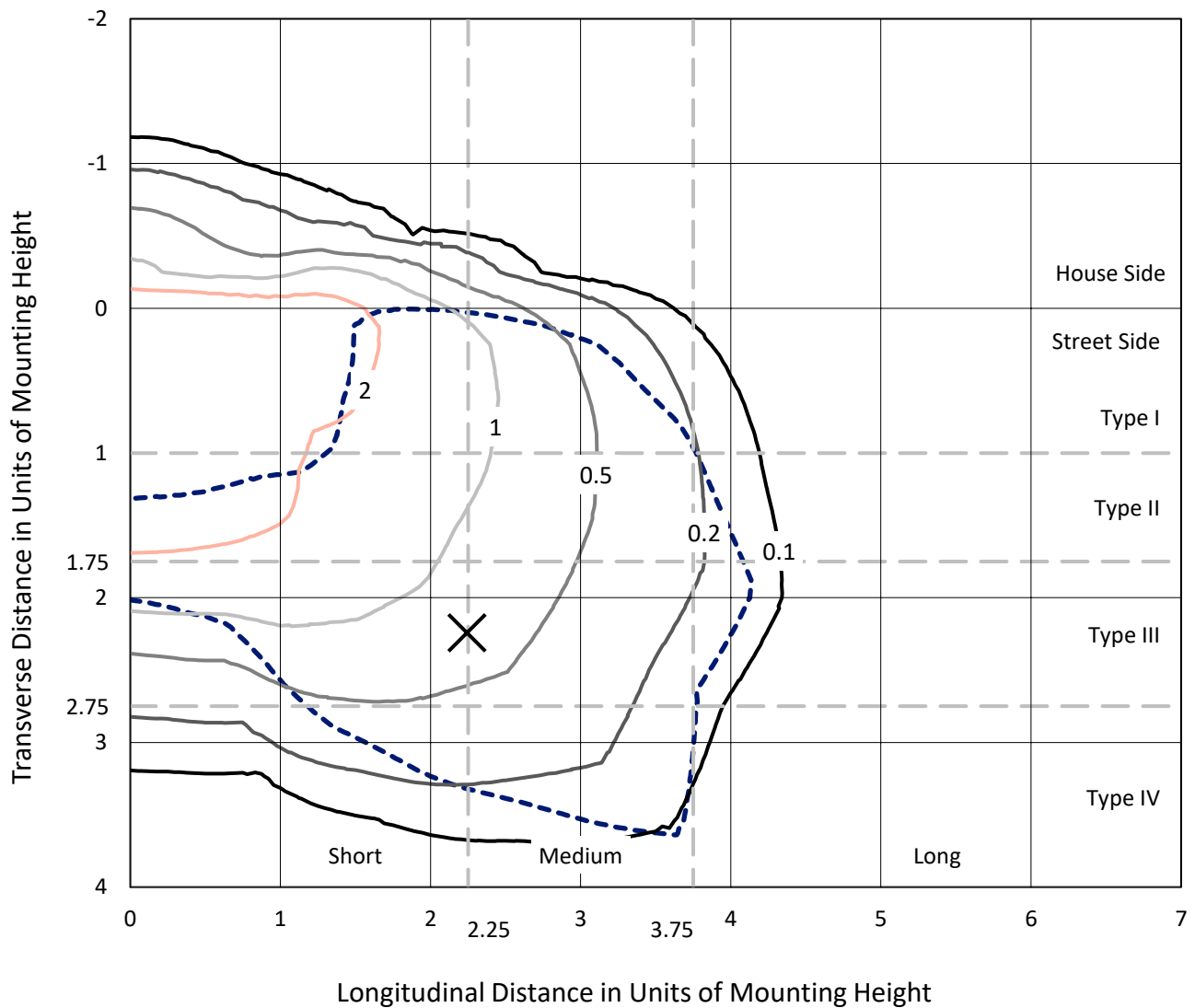
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

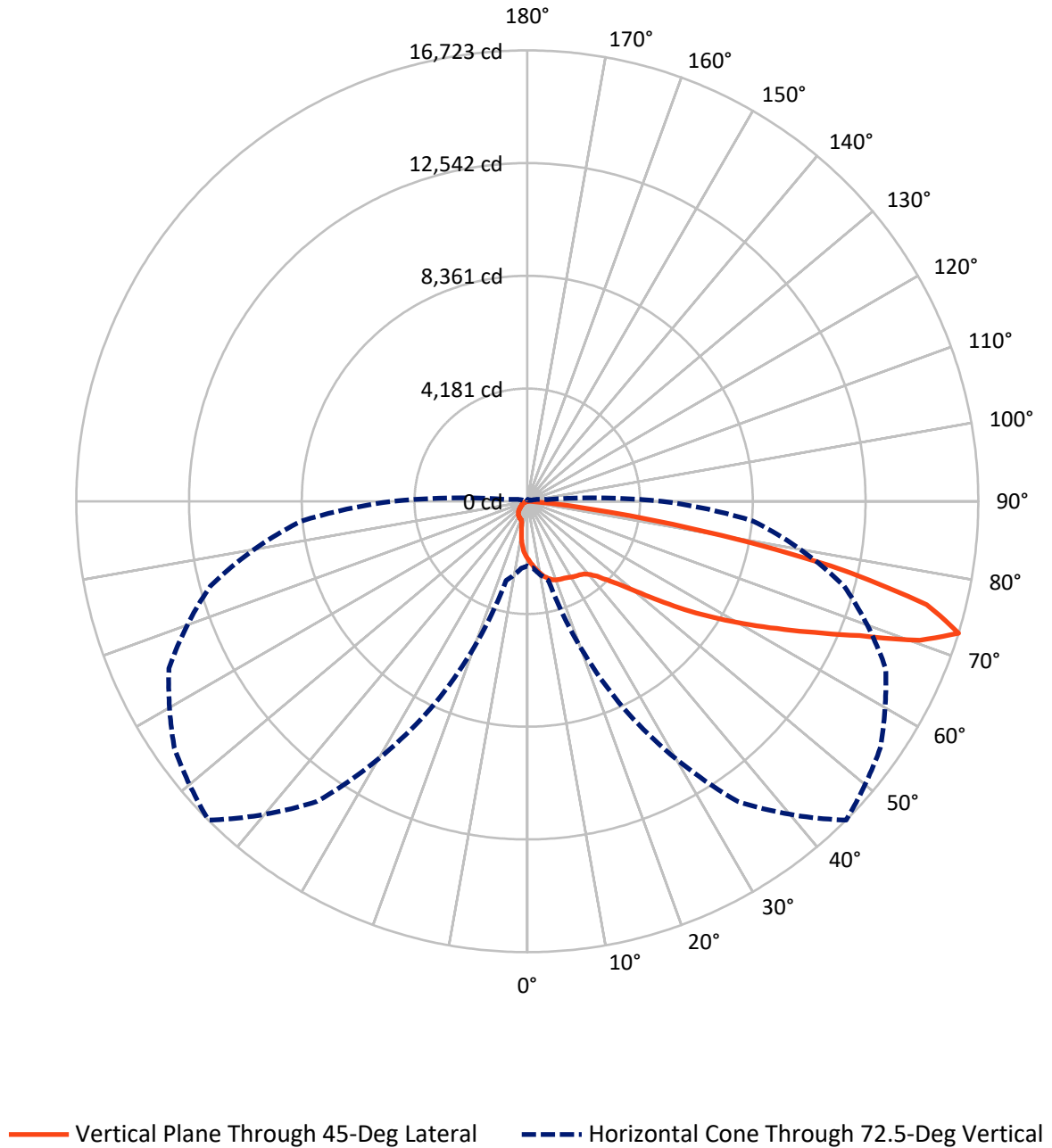
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.1	0.0	2042.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17392.9	0.0	17392.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	19435.0	0.0	19435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.0
10°-20°	586.3	3.0
20°-30°	962.8	5.0
30°-40°	1365.5	7.0
40°-50°	2257.0	11.6
50°-60°	4054.4	20.9
60°-70°	5629.7	29.0
70°-80°	4083.6	21.0
80°-90°	295.2	1.5
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°	19435.0	100.0
0°-180°	19435.0	100.0

Coefficient of Utilization



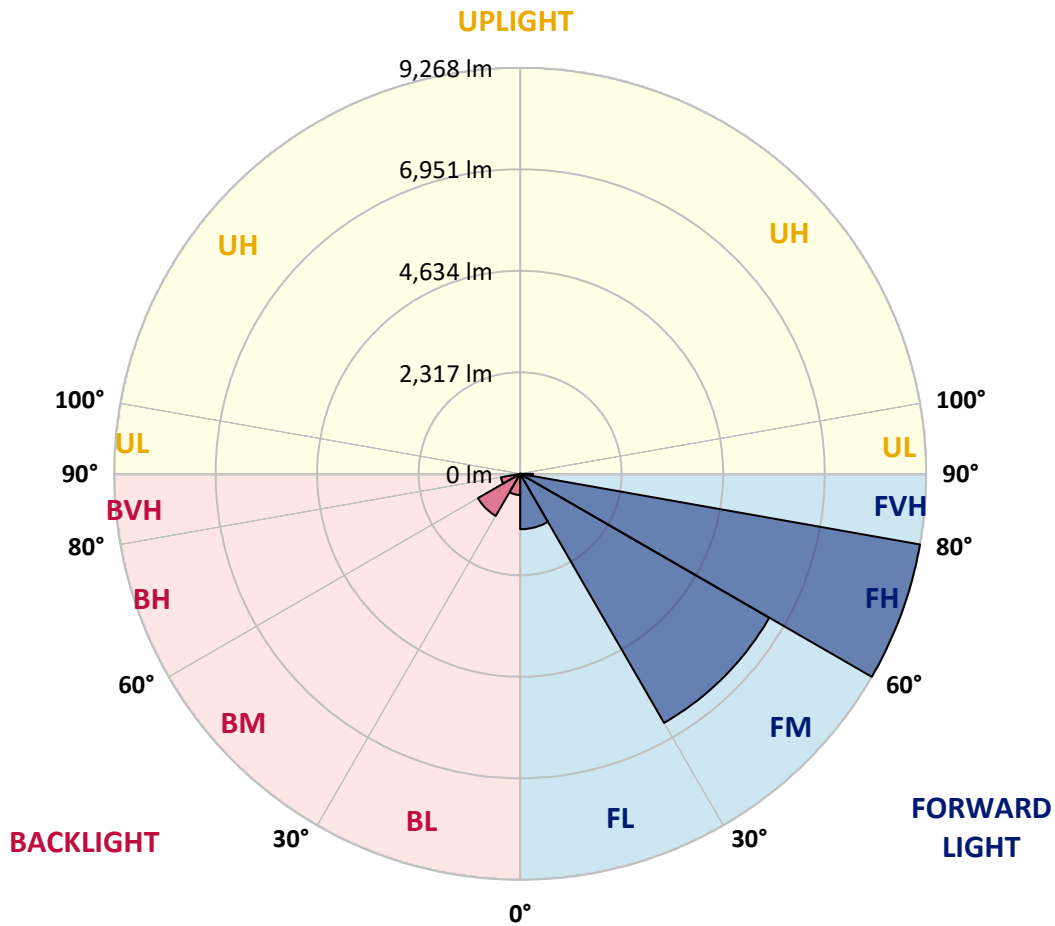
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.0	6.5			
FM (30°-60°)	6566.2	33.8			
FH (60°-80°)	9268.0	47.7			G4/12000
FVH (80°-90°)	292.8	1.5			G3/500
BL (0°-30°)	483.7	2.5	B1/500		
BM (30°-60°)	1110.6	5.7	B2/2500		
BH (60°-80°)	445.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	35°	45°	46°	55°	65°	75°
0°	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1
2.5°	2325.5	2329.5	2326.8	2310.9	2284.4	2269.8	2261.8	2235.3	2218.0	2187.5
5°	2539.1	2555.0	2545.7	2513.9	2463.4	2427.6	2417.0	2362.6	2313.5	2256.5
7.5°	2765.9	2773.9	2756.6	2715.5	2647.8	2586.8	2577.5	2501.9	2423.6	2336.1
10°	2962.2	2971.5	2945.0	2885.3	2808.3	2732.7	2719.5	2635.9	2543.0	2435.6
12.5°	3126.7	3136.0	3101.5	3029.9	2945.0	2866.7	2853.5	2765.9	2663.8	2544.4
15°	3251.4	3268.7	3222.2	3145.3	3053.8	2975.5	2968.9	2882.6	2783.1	2650.5
17.5°	3324.4	3341.6	3297.9	3205.0	3126.7	3060.4	3052.4	2980.8	2887.9	2760.6
20°	3336.3	3352.2	3305.8	3224.9	3159.9	3106.8	3102.8	3051.1	2983.5	2861.4
22.5°	3300.5	3320.4	3278.0	3213.0	3167.9	3140.0	3134.7	3105.5	3067.0	2963.6
25°	3263.4	3279.3	3247.4	3190.4	3166.5	3163.9	3167.9	3162.5	3154.6	3067.0
27.5°	3260.7	3278.0	3242.1	3187.7	3174.5	3202.3	3206.3	3231.5	3238.2	3161.2
30°	3283.3	3295.2	3260.7	3203.7	3197.0	3260.7	3262.0	3307.1	3317.8	3240.8
32.5°	3332.3	3345.6	3311.1	3227.5	3218.3	3307.1	3311.1	3370.8	3388.1	3325.7
35°	3447.8	3463.7	3423.9	3293.9	3260.7	3350.9	3362.9	3433.2	3467.7	3415.9
37.5°	3735.6	3689.2	3634.8	3427.9	3357.5	3419.9	3439.8	3522.0	3583.1	3523.4
40°	4450.6	4304.7	4134.9	3656.0	3527.4	3567.1	3583.1	3665.3	3748.9	3690.5
42.5°	5523.8	5351.4	5078.1	4181.4	3783.4	3803.3	3815.2	3886.9	4004.9	3958.5
45°	6480.3	6417.9	6139.4	5078.1	4262.3	4164.1	4178.7	4215.8	4389.6	4372.4
47.5°	7215.2	7179.4	6964.5	6107.5	5071.5	4605.9	4647.0	4664.2	4914.9	4976.0
50°	7780.3	7767.1	7574.7	7022.9	6128.8	5257.2	5271.8	5234.6	5610.1	5761.3
52.5°	8313.6	8358.7	8216.8	7873.2	7257.7	6110.2	6107.5	5932.4	6439.2	6667.3
55°	8795.2	8811.1	8825.7	8740.8	8393.2	7081.2	7056.0	6769.5	7400.9	7637.1
57.5°	9247.5	9254.2	9384.2	9557.9	9575.2	8123.9	8077.5	7733.9	8451.6	8620.1
60°	9551.3	9581.8	9856.4	10339.3	10550.2	9199.8	9174.6	8824.3	9520.8	9599.1
62.5°	9113.5	9299.3	9991.7	10949.5	11470.9	10392.4	10380.4	10051.4	10645.7	10582.1
65°	7377.1	7691.5	8909.2	11362.1	12374.2	11724.2	11741.5	11391.3	11801.2	11594.2
67.5°	5160.4	5492.0	6932.7	11395.2	13383.8	13288.3	13387.7	12838.5	13028.2	12563.9
70°	3568.5	3739.6	4677.5	10681.5	14170.4	15442.6	15440.0	14616.2	14248.7	13005.7
72.5°	2399.8	2488.6	3037.8	8474.1	13592.0	16722.7	16645.8	15974.6	14659.9	12163.3
75°	1012.2	1077.2	1406.2	4762.4	10753.2	15299.3	15091.1	14117.4	13025.6	9577.8
77.5°	321.0	348.9	554.5	1704.6	5923.1	11500.0	11279.8	8816.4	8730.2	4804.8
80°	152.6	177.8	311.7	684.5	2330.8	6254.8	6224.3	3999.6	3755.5	1297.4
82.5°	66.3	78.3	172.5	366.1	1042.7	2231.3	2276.4	1361.1	1126.3	492.2
85°	21.2	27.9	79.6	168.5	440.4	554.5	547.9	323.7	453.7	268.0
87.5°	0.0	0.0	26.5	38.5	45.1	31.8	35.8	27.9	126.0	74.3
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°
2129.1	0°	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1
2155.7	2.5°	2139.8	2118.5	2081.4	2046.9	2016.4	1985.9	1967.3	1940.8	1938.1	1938.1
2190.2	5°	2154.4	2119.9	2053.5	1983.2	1902.3	1825.4	1748.4	1674.1	1650.3	1633.0
2245.9	7.5°	2196.8	2142.4	2037.6	1903.6	1749.7	1581.3	1463.2	1335.9	1286.8	1260.2
2320.2	10°	2257.8	2183.5	2024.3	1789.5	1540.1	1310.7	1142.2	1004.2	951.2	928.6
2401.1	12.5°	2325.5	2233.9	2000.5	1647.6	1310.7	1036.1	871.6	807.9	799.9	799.9
2497.9	15°	2406.4	2295.0	1959.3	1480.5	1070.5	819.8	761.5	764.1	772.1	777.4
2592.1	17.5°	2490.0	2360.0	1894.3	1293.4	858.3	737.6	738.9	742.9	749.5	754.8
2694.3	20°	2580.2	2425.0	1808.1	1094.4	736.2	713.7	717.7	721.7	727.0	729.6
2789.8	22.5°	2677.0	2486.0	1706.0	899.4	695.1	693.8	695.1	699.1	705.7	705.7
2901.2	25°	2780.5	2553.6	1589.2	757.5	673.9	673.9	676.6	679.2	684.5	684.5
3008.7	27.5°	2886.6	2616.0	1465.9	683.2	655.3	654.0	654.0	658.0	660.6	662.0
3114.8	30°	3003.4	2689.0	1342.5	667.3	640.7	634.1	630.1	632.8	635.4	636.8
3226.2	32.5°	3122.7	2759.3	1232.4	673.9	626.1	614.2	600.9	598.3	598.3	603.6
3341.6	35°	3255.4	2836.2	1147.5	696.4	618.2	585.0	563.8	551.9	553.2	561.1
3479.6	37.5°	3414.6	2929.1	1085.1	716.3	612.9	551.9	517.4	502.8	493.5	502.8
3669.3	40°	3622.9	3065.7	1040.0	732.3	606.2	513.4	467.0	443.1	425.8	431.1
3963.8	42.5°	3929.3	3280.6	1022.8	733.6	591.7	468.3	415.2	383.4	358.2	359.5
4406.9	45°	4359.1	3620.2	1111.7	716.3	559.8	419.2	360.8	318.4	302.5	298.5
5068.8	47.5°	4948.1	4115.0	1317.3	680.5	513.4	371.4	307.8	271.9	260.0	253.4
5937.7	50°	5737.4	4750.4	1545.5	640.7	467.0	326.3	264.0	241.4	233.5	226.8
6968.5	52.5°	6652.8	5395.2	1732.5	600.9	420.5	286.5	236.1	222.9	216.2	210.9
7963.4	55°	7492.5	5839.6	1721.9	558.5	375.4	254.7	216.2	208.3	200.3	195.0
8820.4	57.5°	8015.1	5901.9	1419.4	512.1	323.7	229.5	197.7	192.4	183.1	176.4
9561.9	60°	8255.2	5546.4	994.9	451.0	271.9	205.6	177.8	175.1	163.2	153.9
10263.7	62.5°	8299.0	4885.8	663.3	375.4	226.8	183.1	157.9	153.9	138.0	122.0
10834.1	65°	8121.3	3941.2	459.0	293.2	193.7	159.2	135.3	127.4	110.1	94.2
10969.4	67.5°	7558.8	2767.2	319.7	210.9	164.5	126.0	107.5	104.8	91.5	78.3
10279.6	70°	6528.1	1577.3	213.6	157.9	130.0	86.2	84.9	87.6	74.3	63.7
8398.5	72.5°	5005.2	721.7	132.7	115.4	88.9	58.4	67.7	69.0	57.0	47.8
5240.0	75°	2946.3	309.1	83.6	74.3	45.1	38.5	49.1	50.4	38.5	30.5
1915.6	77.5°	1002.9	116.7	53.1	43.8	22.6	21.2	31.8	31.8	21.2	11.9
384.7	80°	228.2	43.8	26.5	17.2	10.6	9.3	10.6	9.3	5.3	1.3
118.1	82.5°	65.0	17.2	10.6	6.6	4.0	4.0	1.3	0.0	0.0	0.0
41.1	85°	18.6	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	8.0	1.3	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>
2129.1
1944.8
1641.0
1264.2
928.6
799.9
777.4
754.8
730.9
708.4
685.8
663.3
639.4
607.6
565.1
500.1
428.5
354.2
293.2
249.4
225.5
209.6
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