

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: P942396

Luminaire Tested: **GALN-SB6B-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25616 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

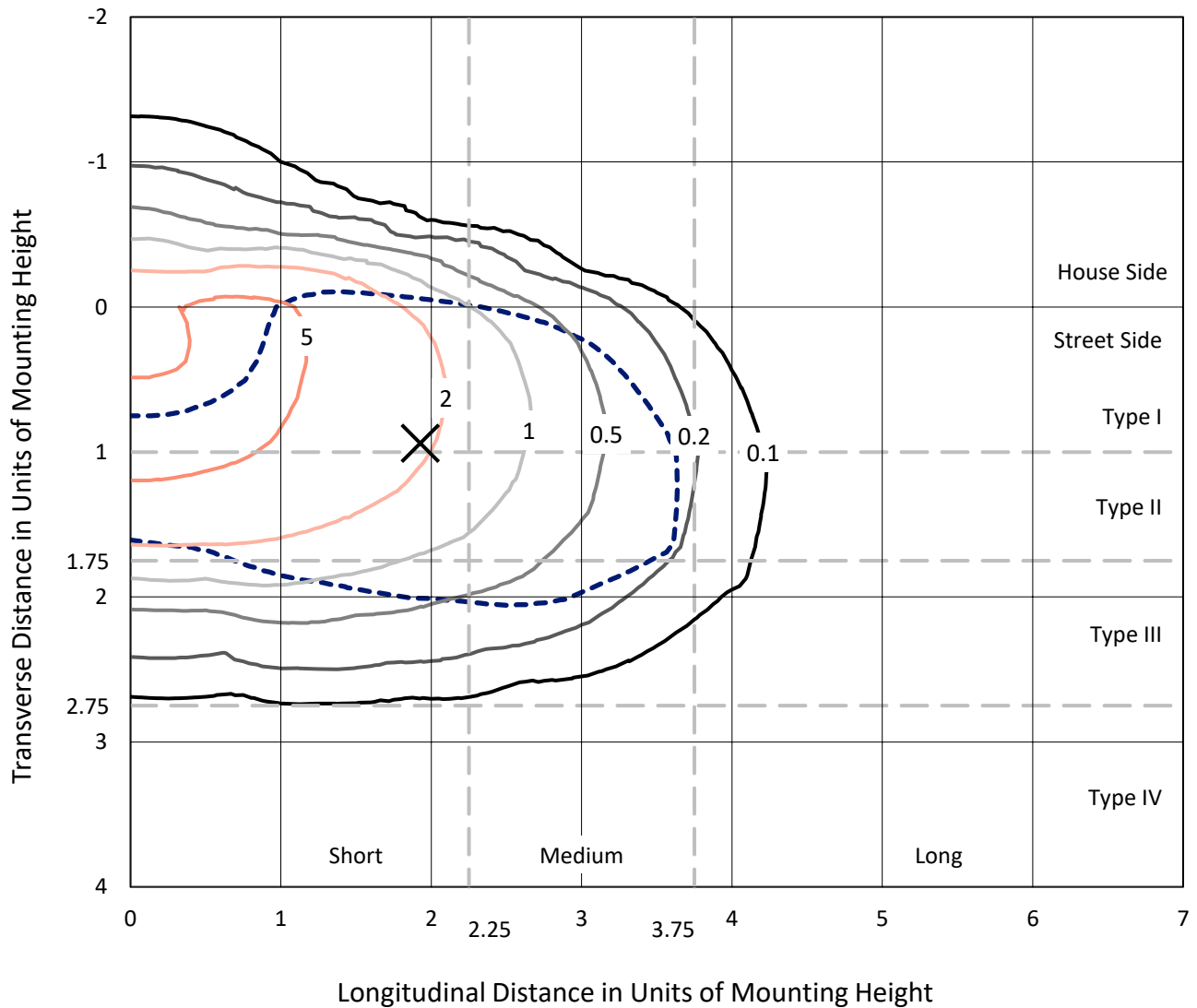
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

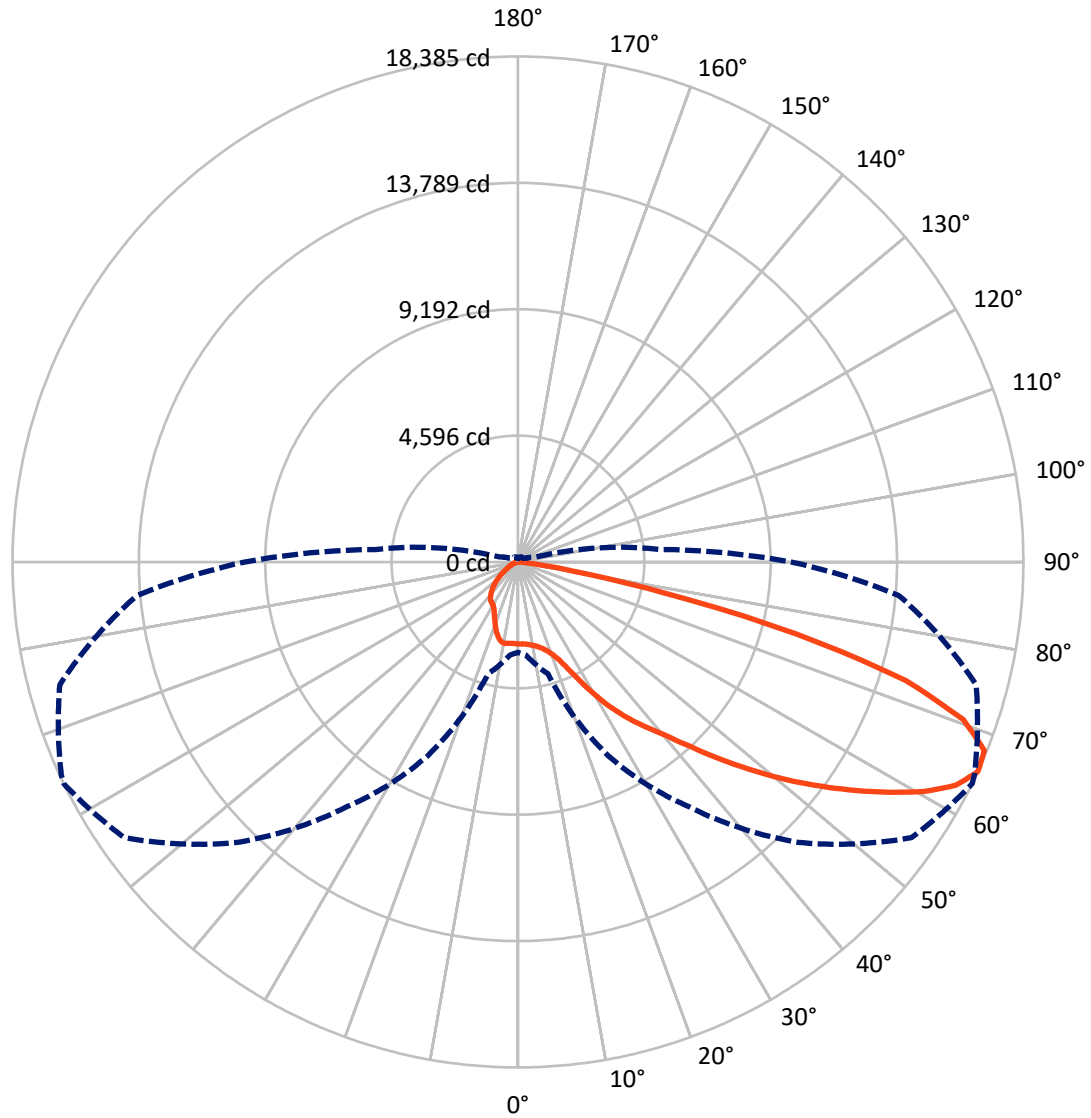
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3425.6	0.0	3425.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22190.4	0.0	22190.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	25616.0	0.0	25616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	1.1
10°-20°	745.6	2.9
20°-30°	1412.8	5.5
30°-40°	2858.8	11.2
40°-50°	4869.9	19.0
50°-60°	6622.7	25.9
60°-70°	6219.1	24.3
70°-80°	2491.6	9.7
80°-90°	120.7	0.5
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°	25616.0	100.0
0°-180°	25616.0	100.0

Coefficient of Utilization



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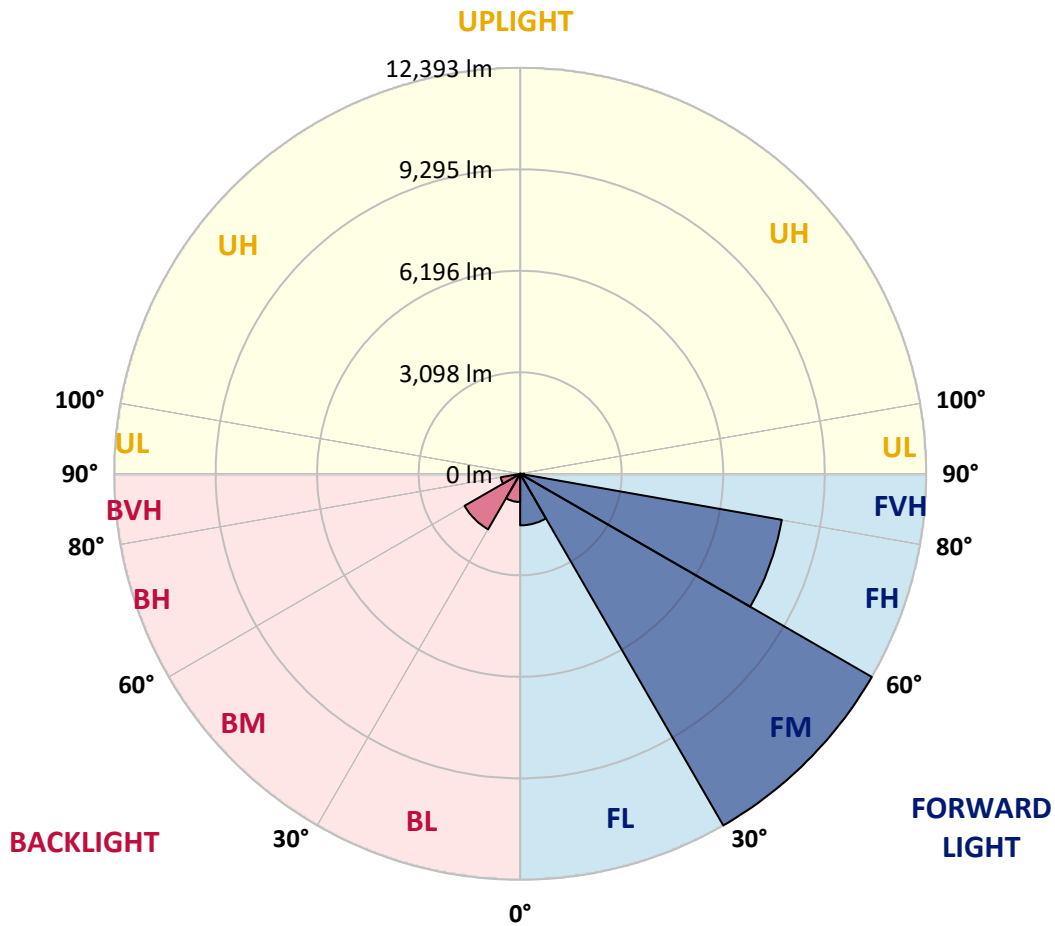
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.1	6.1			
FM (30°-60°)	12393.0	48.4			
FH (60°-80°)	8109.4	31.7			G4/12000
FVH (80°-90°)	114.8	0.4			G2/225
BL (0°-30°)	860.1	3.4	B2/1000		
BM (30°-60°)	1958.4	7.6	B2/2500		
BH (60°-80°)	601.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2.5°	2969.1	2989.7	2984.6	2979.4	2977.7	2981.1	2982.8	2981.1	2981.1	2981.1
5°	2912.4	2929.6	2929.6	2941.6	2958.8	2979.4	2994.9	2998.3	3001.7	3006.9
7.5°	2804.2	2818.0	2828.3	2867.8	2910.7	2965.7	3012.0	3036.1	3039.5	3058.4
10°	2730.4	2747.6	2764.8	2806.0	2867.8	2950.2	3029.2	3087.6	3096.2	3140.8
12.5°	2727.0	2744.1	2766.5	2811.1	2883.2	2970.8	3067.0	3151.1	3166.6	3231.8
15°	2763.0	2783.6	2804.2	2859.2	2936.5	3042.9	3146.0	3250.7	3266.2	3358.9
17.5°	2836.9	2864.4	2879.8	2934.8	3017.2	3135.7	3271.3	3391.5	3405.3	3513.5
20°	2982.8	3015.5	3020.6	3065.3	3146.0	3273.1	3434.5	3583.9	3601.0	3724.7
22.5°	3285.1	3331.4	3290.2	3312.6	3384.7	3511.8	3686.9	3875.8	3899.8	4040.7
25°	3817.4	3882.7	3776.2	3738.4	3769.3	3901.6	4121.4	4360.1	4387.5	4500.9
27.5°	4863.2	4779.1	4617.7	4459.7	4366.9	4442.5	4689.8	4985.1	5019.5	5129.4
30°	6012.0	5938.2	5720.1	5369.8	5150.0	5138.0	5366.4	5696.1	5735.6	5840.3
32.5°	7162.6	7092.2	6855.2	6424.2	6043.0	5854.1	6012.0	6377.8	6398.4	6465.4
35°	8294.3	8222.1	7985.2	7543.8	7075.0	6645.7	6614.8	7026.9	7033.8	7104.2
37.5°	9432.8	9372.7	9120.2	8687.5	8225.6	7633.1	7346.3	7641.7	7650.3	7719.0
40°	10245.0	10270.8	10097.4	9762.5	9365.8	8718.4	8167.2	8296.0	8244.5	8359.5
42.5°	10942.2	10993.8	10842.6	10674.3	10444.2	9874.1	9183.8	9161.5	9079.0	9140.9
45°	11545.0	11587.9	11452.3	11412.8	11407.6	11007.5	10294.8	10160.9	10045.8	10033.8
47.5°	11766.5	11848.9	11907.3	12039.6	12297.1	12128.8	11443.7	11235.9	11107.1	11012.6
50°	11850.7	11938.2	12137.4	12522.1	13131.7	13203.8	12587.3	12353.8	12195.8	12024.1
52.5°	11737.3	11893.6	12161.5	12808.9	13693.3	14065.9	13684.7	13480.3	13300.0	13020.1
55°	11069.3	11225.6	11773.4	12805.4	13973.2	14670.4	14721.9	14630.9	14428.2	13986.9
57.5°	9661.2	9893.0	10760.2	12369.3	13968.0	15190.7	15738.5	15803.7	15577.1	14945.1
60°	7710.4	8024.7	9082.5	11402.5	13537.0	15472.3	16629.7	16956.0	16715.6	15889.6
62.5°	5380.1	5744.2	6745.3	9887.9	12551.3	15269.7	17280.6	17883.3	17701.3	16734.5
65°	3281.6	3398.4	4205.5	7780.8	10875.3	14421.4	17481.5	18384.7	18324.6	17251.4
67.5°	2186.0	2283.9	2515.8	5335.5	8441.9	12726.4	17000.6	18297.2	18314.3	17167.2
70°	1317.1	1401.3	1552.4	3103.0	5471.1	10073.3	15511.8	17181.0	17280.6	16042.4
72.5°	542.6	599.3	736.7	1406.4	2833.4	6393.3	12352.1	14751.1	14982.9	13488.9
75°	307.4	336.6	432.7	705.8	1229.5	2979.4	7482.0	10471.7	10813.4	9297.1
77.5°	204.4	218.1	279.9	456.8	692.0	1016.6	3197.5	5455.7	6108.2	5077.9
80°	137.4	149.4	192.3	305.7	449.9	436.2	1018.3	2021.2	2486.6	1744.7
82.5°	92.7	94.4	137.4	200.9	285.1	211.2	300.5	628.5	789.9	504.9
85°	53.2	51.5	101.3	116.8	127.1	87.6	91.0	188.9	247.3	212.9
87.5°	6.9	10.3	39.5	30.9	17.2	18.9	18.9	32.6	48.1	51.5
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°
2979.4	0°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2982.8	2.5°	2982.8	2981.1	2976.0	2970.8	2958.8	2951.9	2955.4	2951.9	2950.2	2951.9
3005.2	5°	3005.2	3000.0	2986.3	2969.1	2945.1	2915.9	2897.0	2869.5	2843.7	2828.3
3065.3	7.5°	3065.3	3060.1	3041.2	2993.1	2915.9	2793.9	2682.3	2584.4	2510.6	2467.7
3161.4	10°	3161.4	3152.8	3123.7	3017.2	2814.6	2548.4	2326.9	2143.1	2022.9	1966.2
3274.8	12.5°	3274.8	3264.5	3213.0	2994.9	2622.2	2206.6	1901.0	1696.6	1585.0	1535.2
3405.3	15°	3408.7	3395.0	3293.7	2888.4	2342.3	1828.9	1548.9	1396.1	1324.0	1279.3
3571.9	17.5°	3575.3	3551.2	3353.8	2728.7	2038.4	1540.4	1332.6	1217.5	1154.0	1111.1
3789.9	20°	3791.7	3752.2	3401.8	2538.1	1758.5	1358.3	1186.6	1090.4	1042.4	1004.6
4099.0	22.5°	4093.9	4037.2	3460.2	2332.0	1561.0	1233.0	1078.4	1008.0	968.5	925.6
4530.1	25°	4468.3	4401.3	3532.4	2141.4	1425.3	1124.8	999.4	941.0	894.7	844.9
5095.0	27.5°	4992.0	4871.8	3618.2	1985.1	1308.5	1032.1	927.3	862.1	808.8	767.6
5735.6	30°	5575.9	5378.4	3693.8	1890.7	1202.1	946.2	832.9	767.6	717.8	688.6
6310.8	32.5°	6128.8	5860.9	3743.6	1849.5	1105.9	848.3	729.8	659.4	621.6	613.1
6874.1	35°	6650.9	6297.1	3738.4	1810.0	1020.0	750.4	628.5	556.4	527.2	532.3
7480.3	37.5°	7251.9	6762.5	3702.4	1748.1	949.6	661.1	540.9	477.4	451.6	453.4
8217.0	40°	7950.8	7300.0	3680.0	1631.4	872.4	578.7	468.8	417.3	398.4	391.5
8993.2	42.5°	8696.1	7820.3	3683.5	1499.1	776.2	504.9	419.0	376.1	358.9	353.8
9856.9	45°	9444.8	8316.6	3688.6	1361.8	674.9	448.2	382.9	346.9	336.6	329.7
10732.7	47.5°	10148.9	8739.0	3592.5	1214.1	575.3	405.3	353.8	329.7	321.1	312.5
11612.0	50°	10804.9	9020.6	3360.6	1042.4	496.3	370.9	331.4	314.3	305.7	297.1
12408.8	52.5°	11314.9	9065.3	2977.7	865.5	441.3	345.2	317.7	302.2	291.9	283.3
13052.7	55°	11541.6	8785.4	2433.3	700.6	398.4	322.8	304.0	288.5	276.5	267.9
13559.3	57.5°	11483.2	8196.4	1897.5	563.3	357.2	300.5	286.8	276.5	262.7	249.0
13969.7	60°	11196.4	7408.2	1430.5	468.8	319.4	276.5	267.9	259.3	240.4	219.8
14127.7	62.5°	10700.1	6417.3	1020.0	388.1	278.2	249.0	245.6	238.7	211.2	173.4
13894.2	65°	9941.1	5213.5	686.9	322.8	238.7	218.1	219.8	207.8	171.7	128.8
13039.0	67.5°	8831.8	3812.3	439.6	264.5	199.2	182.0	183.7	176.9	146.0	109.9
11417.9	70°	7418.5	2524.3	286.8	200.9	159.7	140.8	151.1	152.8	123.6	89.3
8763.1	72.5°	5438.5	1490.6	200.9	149.4	116.8	97.9	123.6	127.1	99.6	67.0
5271.9	75°	3099.6	707.5	151.1	108.2	72.1	68.7	96.2	96.2	68.7	44.6
2282.2	77.5°	1301.7	295.4	106.5	70.4	41.2	39.5	65.3	60.1	34.3	20.6
556.4	80°	376.1	132.2	56.7	34.3	17.2	15.5	25.8	18.9	8.6	3.4
211.2	82.5°	147.7	58.4	22.3	13.7	6.9	6.9	3.4	0.0	0.0	0.0
120.2	85°	87.6	24.0	10.3	5.2	1.7	0.0	0.0	0.0	0.0	0.0
25.8	87.5°	22.3	5.2	3.4	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

(END O

180°
2979.4
2958.8
2831.7
2469.4
1961.1
1530.1
1281.1
1107.6
997.7
918.7
839.7
759.0
683.5
618.2
532.3
460.2
389.8
352.0
329.7
312.5
297.1
281.6
266.2
247.3
216.4
170.0
125.4
104.8
85.9
63.5
41.2
20.6
3.4
0.0
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