

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: P948644

Luminaire Tested: **GALN-SB3C-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18198 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

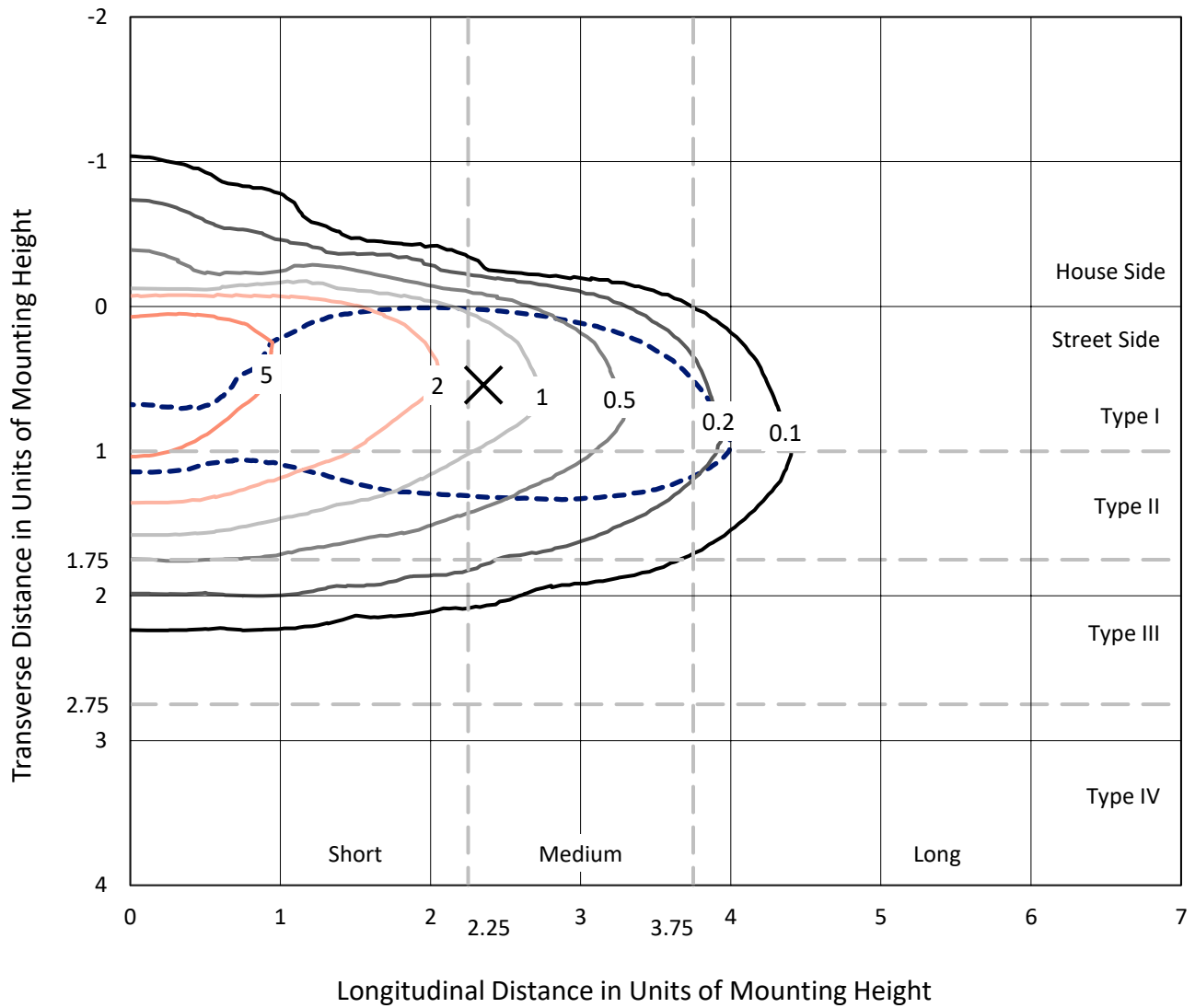
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948644
 CATALOG NUMBER: GALN-SB3C-850-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

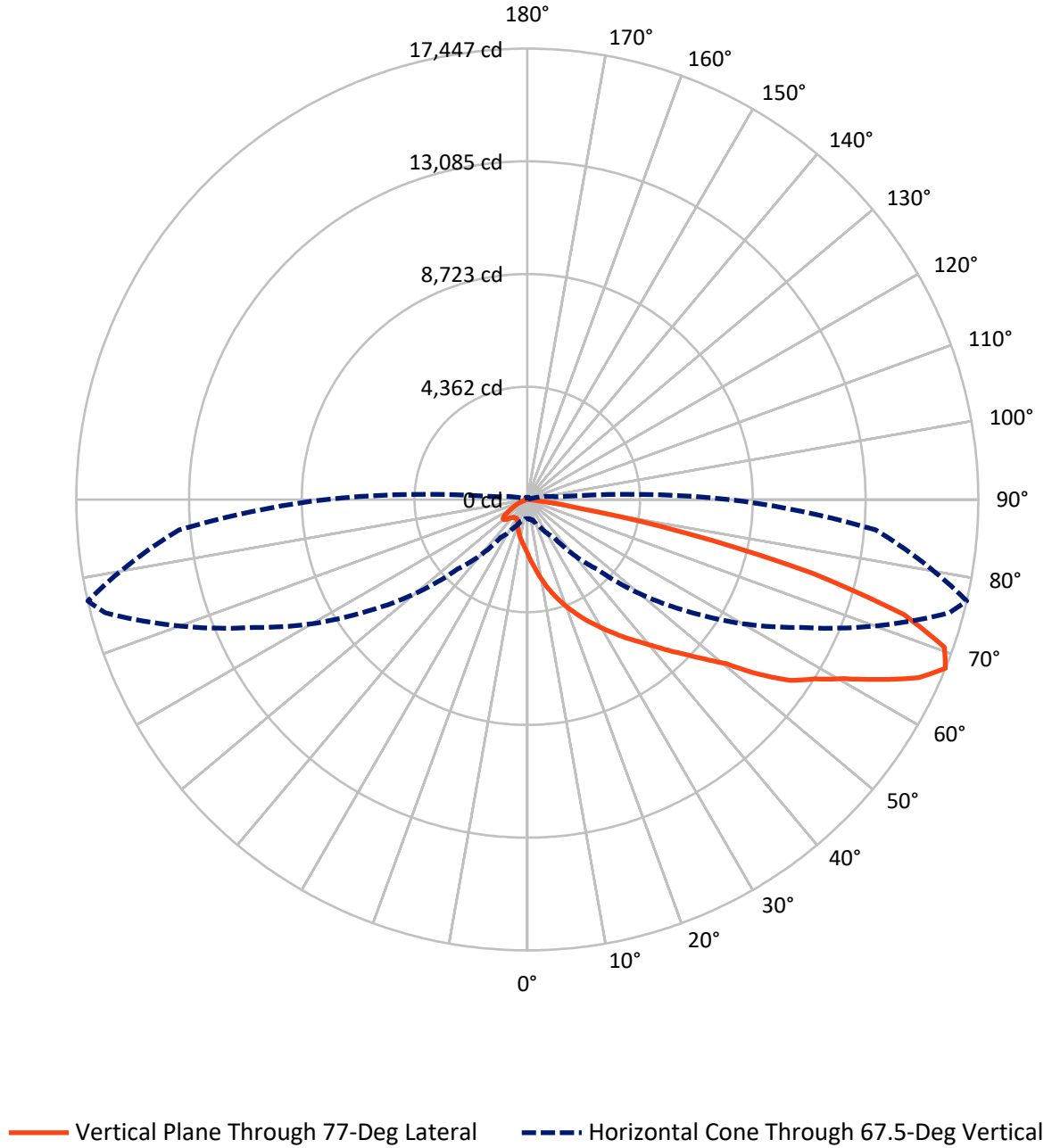
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P948644
CATALOG NUMBER: GALN-SB3C-850-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.8	0.0	1338.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16859.2	0.0	16859.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	18198.0	0.0	18198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.2
10°-20°	750.1	4.1
20°-30°	1447.4	8.0
30°-40°	2512.8	13.8
40°-50°	3648.4	20.0
50°-60°	4189.7	23.0
60°-70°	3637.5	20.0
70°-80°	1713.3	9.4
80°-90°	84.7	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°	18198.0	100.0
0°-180°	18198.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948644

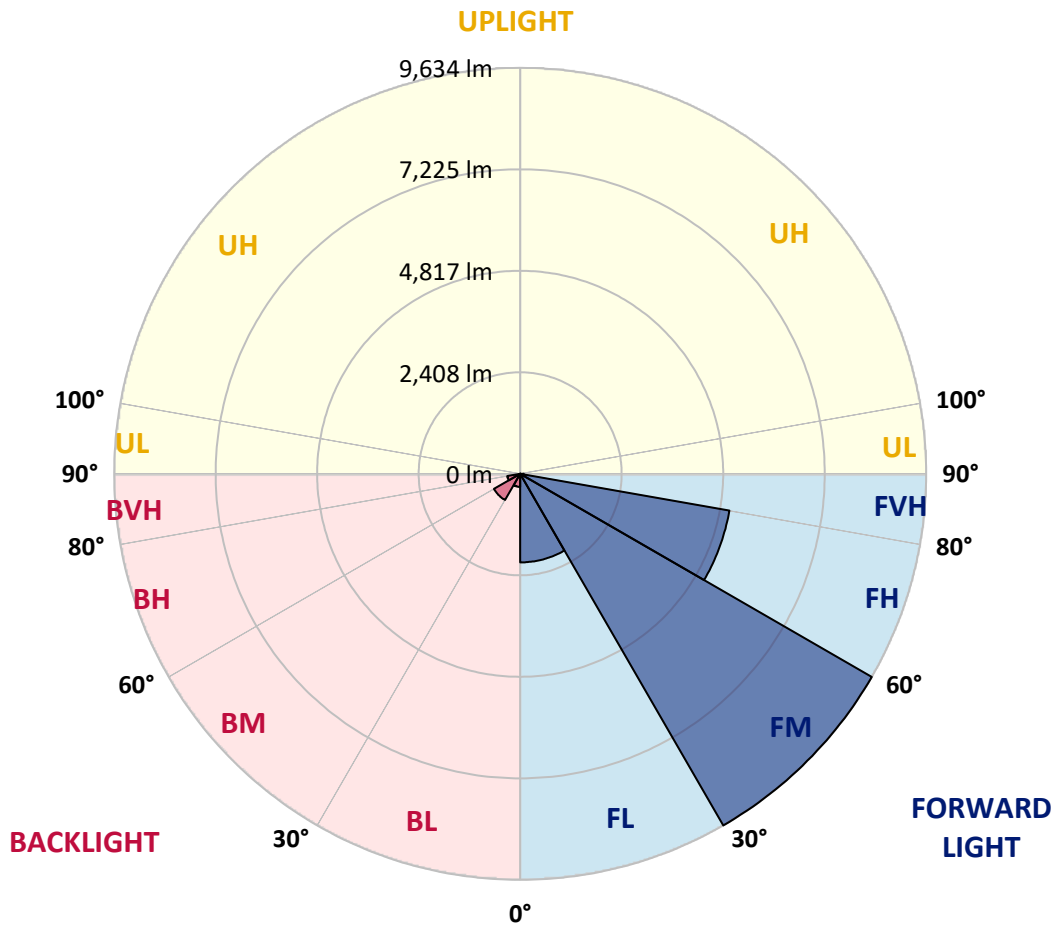
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.7	11.5			
FM (30°-60°)	9633.5	52.9			
FH (60°-80°)	5040.8	27.7			G3/7500
FVH (80°-90°)	83.2	0.5			G1/100
BL (0°-30°)	310.0	1.7	B1/500		
BM (30°-60°)	717.4	3.9	B1/1000		
BH (60°-80°)	310.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



REPORT NUMBER: P948644

CATALOG NUMBER: GALN-SB3C-850-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2.5°	2905.4	2923.4	2897.4	2847.7	2773.1	2724.5	2605.9	2494.0	2369.7	2330.2
5°	3541.6	3557.4	3528.0	3473.8	3374.3	3279.4	3123.4	2889.5	2646.6	2568.6
7.5°	4012.8	4021.8	4010.5	3960.8	3865.9	3758.5	3584.5	3307.6	2947.2	2861.3
10°	4351.8	4381.2	4377.8	4358.6	4295.3	4208.3	4023.0	3707.7	3283.9	3173.2
12.5°	4576.7	4609.5	4628.7	4671.6	4668.2	4612.9	4450.1	4116.8	3619.5	3489.6
15°	4642.2	4677.3	4750.7	4850.2	4938.3	4966.6	4852.4	4517.9	3989.1	3822.9
17.5°	4604.9	4659.2	4747.3	4904.4	5097.6	5225.3	5212.9	4905.5	4324.7	4134.8
20°	4687.4	4739.4	4808.3	4940.6	5165.4	5397.1	5489.8	5276.2	4658.1	4459.2
22.5°	5144.0	5134.9	5141.7	5163.2	5297.7	5527.1	5718.0	5612.9	4988.0	4784.6
25°	5867.2	5826.5	5757.6	5641.2	5607.3	5718.0	5916.9	5911.3	5336.1	5118.0
27.5°	6696.7	6689.9	6528.3	6248.0	6089.8	6046.9	6141.8	6201.7	5680.7	5448.0
30°	7491.1	7509.2	7291.1	6979.2	6688.7	6520.4	6434.5	6477.4	6031.1	5803.9
32.5°	8182.7	8201.9	7964.6	7599.6	7240.2	7036.8	6856.0	6749.8	6413.0	6165.5
35°	8766.9	8786.1	8513.8	8110.3	7727.3	7543.1	7338.5	7048.1	6797.2	6566.7
37.5°	9289.0	9283.3	8918.3	8511.5	8135.2	7989.4	7882.1	7415.4	7192.7	6970.1
40°	9597.5	9621.2	9309.3	8860.7	8495.7	8389.5	8382.7	7870.8	7649.3	7433.4
42.5°	9687.9	9729.7	9503.7	9135.3	8804.2	8688.9	8866.3	8363.5	8180.4	7970.2
45°	9525.2	9565.8	9463.0	9207.6	9014.4	8939.8	9282.2	8874.3	8747.7	8539.8
47.5°	9050.5	9101.4	9126.3	9072.0	9069.8	9145.5	9655.1	9412.2	9421.2	9208.8
50°	8131.8	8217.7	8446.0	8638.1	8935.3	9308.2	10017.9	9995.3	10180.6	9997.5
52.5°	6461.6	6583.7	7370.2	7895.6	8563.5	9277.7	10416.8	10930.9	11512.9	11245.1
55°	5192.6	5192.6	5832.2	6815.3	7838.0	9076.5	10590.8	11538.9	12420.3	12357.1
57.5°	4233.2	4284.0	4692.0	5561.0	6788.2	8597.4	10698.2	11920.9	13151.5	13105.2
60°	2612.7	2722.3	3493.0	4350.7	5593.7	7744.2	10630.4	12307.3	14038.6	14075.9
62.5°	1471.3	1512.0	1855.5	3130.2	4349.6	6597.2	10111.7	12523.2	15173.1	15331.3
65°	1015.9	1036.3	1168.5	1948.2	3015.0	5252.5	9098.0	12388.7	16310.0	16629.8
67.5°	737.9	748.1	830.6	1189.9	1788.9	3808.3	7509.2	11710.7	16912.3	17446.8
70°	567.3	574.1	634.0	782.0	1056.6	2350.5	5453.6	10362.5	16476.1	17114.6
72.5°	461.1	467.8	514.2	578.6	700.6	1390.0	3305.4	8415.5	14550.5	15239.8
75°	388.7	397.8	439.6	481.4	549.2	892.7	1550.4	5860.4	10942.2	11394.3
77.5°	215.8	198.9	357.1	398.9	463.3	565.0	725.5	3448.9	6128.2	6253.7
80°	134.5	139.0	283.6	320.9	356.0	284.8	332.2	1327.8	2124.5	2018.3
82.5°	7.9	18.1	218.1	231.7	244.1	122.0	125.4	450.9	511.9	470.1
85°	0.0	0.0	99.4	80.2	84.8	35.0	36.2	105.1	68.9	74.6
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.8	9.0	3.4	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948644
 CATALOG NUMBER: GALN-SB3C-850-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2098.5	0°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2205.9	2.5°	2126.7	2047.6	1887.2	1730.1	1602.4	1483.8	1399.0	1318.8	1278.1	1275.8
2348.2	5°	2191.2	2025.0	1704.1	1420.5	1192.2	1009.1	890.5	805.7	762.8	748.1
2523.4	7.5°	2281.6	2031.8	1543.6	1149.3	880.3	723.2	655.4	628.3	619.3	609.1
2721.2	10°	2395.7	2047.6	1400.1	925.5	693.8	614.7	587.6	576.3	569.5	562.8
2943.8	12.5°	2523.4	2062.3	1257.7	768.4	610.2	569.5	550.3	536.8	527.7	519.8
3172.0	15°	2647.7	2071.4	1109.7	658.8	567.3	534.5	514.2	499.5	487.1	478.0
3395.8	17.5°	2770.9	2083.8	970.7	593.3	532.3	499.5	479.1	461.1	450.9	440.7
3630.8	20°	2907.6	2081.5	839.6	546.9	497.2	464.4	443.0	426.0	415.9	404.6
3879.5	22.5°	3034.2	2070.2	724.4	507.4	461.1	429.4	405.7	388.7	378.6	369.5
4133.7	25°	3180.0	2061.2	628.3	471.2	427.2	395.5	369.5	353.7	342.4	334.5
4389.1	27.5°	3320.1	2047.6	558.2	438.5	394.4	363.9	339.0	320.9	310.8	305.1
4652.4	30°	3457.9	2044.3	532.3	406.8	365.0	334.5	309.6	292.7	284.8	282.5
4941.7	32.5°	3624.1	2053.3	543.6	395.5	337.9	307.4	283.6	271.2	263.3	263.3
5263.8	35°	3801.5	2051.0	560.5	405.7	319.8	280.3	262.2	254.3	246.4	246.4
5620.9	37.5°	4024.1	2054.4	574.1	422.6	313.0	257.7	247.5	237.3	232.8	232.8
6011.8	40°	4356.3	2166.3	567.3	437.3	310.8	241.8	221.5	218.1	214.7	214.7
6453.7	42.5°	4763.1	2409.3	576.3	438.5	309.6	230.5	203.4	210.2	202.3	201.1
6952.0	45°	5208.4	2674.8	634.0	414.7	308.5	224.9	194.4	202.3	189.8	189.8
7529.5	47.5°	5650.2	2938.1	692.7	380.8	305.1	223.7	186.5	181.9	178.5	179.7
8282.1	50°	6259.3	3152.8	715.3	334.5	297.2	221.5	171.8	172.9	170.6	172.9
9343.2	52.5°	6922.7	3198.0	688.2	282.5	274.6	214.7	161.6	166.1	165.0	167.2
10090.2	55°	7336.3	3149.4	568.4	235.0	239.6	187.6	151.4	160.5	160.5	160.5
10820.2	57.5°	7763.4	2942.6	403.4	191.0	198.9	153.7	142.4	154.8	153.7	152.6
11699.4	60°	8070.8	2608.1	265.6	157.1	158.2	126.6	132.2	145.8	144.6	139.0
12605.7	62.5°	8300.2	2238.6	170.6	133.3	120.9	114.1	120.9	132.2	127.7	115.3
13374.1	65°	8274.2	1726.7	131.1	114.1	99.4	99.4	105.1	115.3	101.7	81.4
13521.0	67.5°	7791.7	1168.5	108.5	96.1	83.6	82.5	87.0	96.1	87.0	68.9
12768.4	70°	6929.4	763.9	87.0	74.6	66.7	61.0	70.1	82.5	73.5	55.4
10869.9	72.5°	5624.2	465.6	65.5	54.2	48.6	39.6	55.4	67.8	58.8	40.7
7558.9	75°	3638.8	237.3	45.2	35.0	26.0	23.7	40.7	50.9	40.7	24.9
3354.0	77.5°	1392.2	99.4	24.9	15.8	13.6	11.3	22.6	30.5	17.0	5.7
649.8	80°	267.8	41.8	12.4	7.9	6.8	4.5	3.4	2.3	0.0	0.0
115.3	82.5°	46.3	13.6	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
22.6	85°	15.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	87.5°	5.7	0.0	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

(END O

<u>180°</u>
2098.5
1273.6
745.8
606.8
560.5
517.6
476.9
439.6
403.4
368.4
333.4
305.1
281.4
263.3
246.4
232.8
214.7
200.0
189.8
179.7
172.9
167.2
160.5
152.6
139.0
113.0
79.1
66.7
53.1
38.4
21.5
4.5
0.0
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