

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: P950729

Luminaire Tested: **GALN-SB5A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950729
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-SB5A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 15684 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

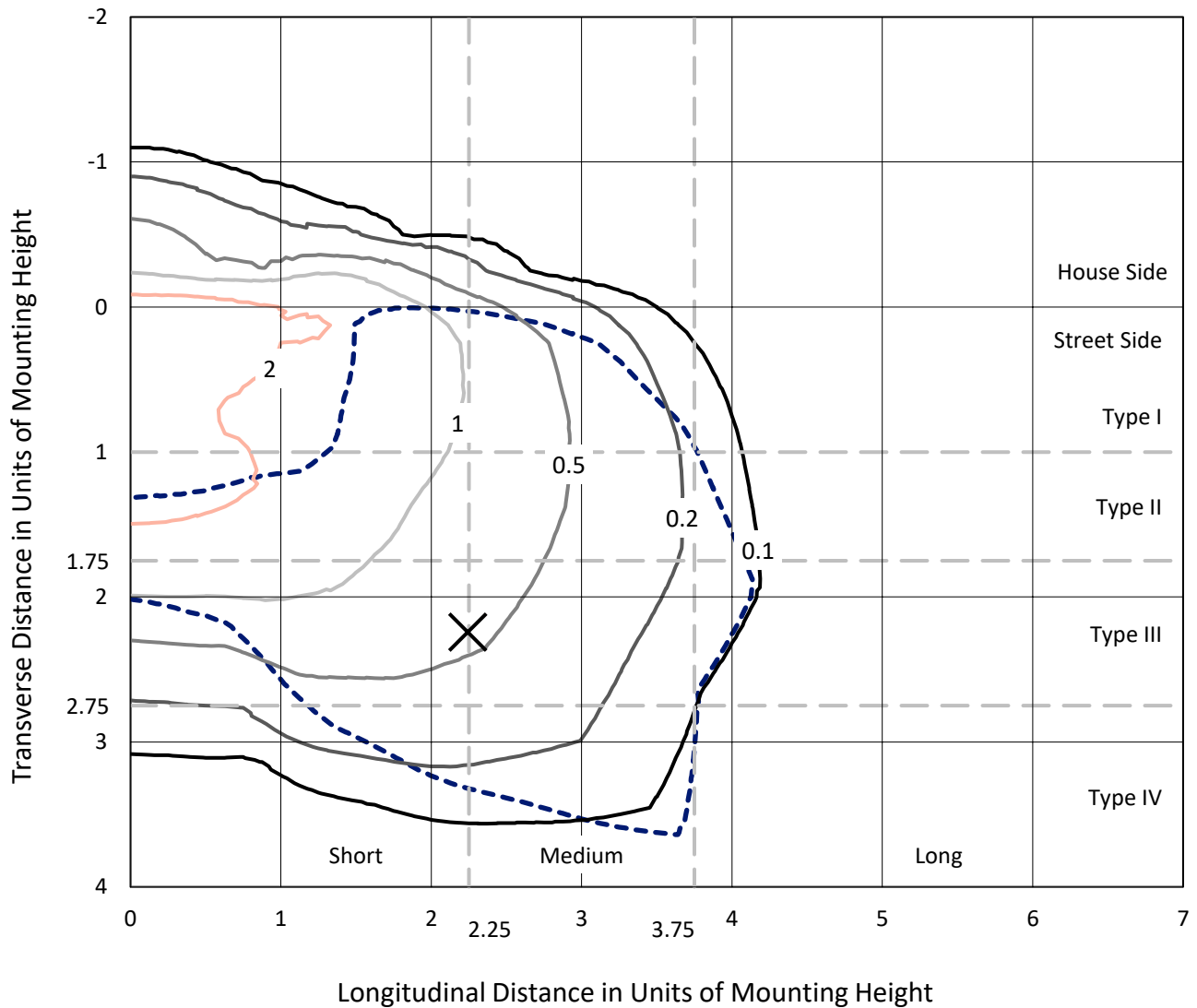
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950729
 CATALOG NUMBER: GALN-SB5A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

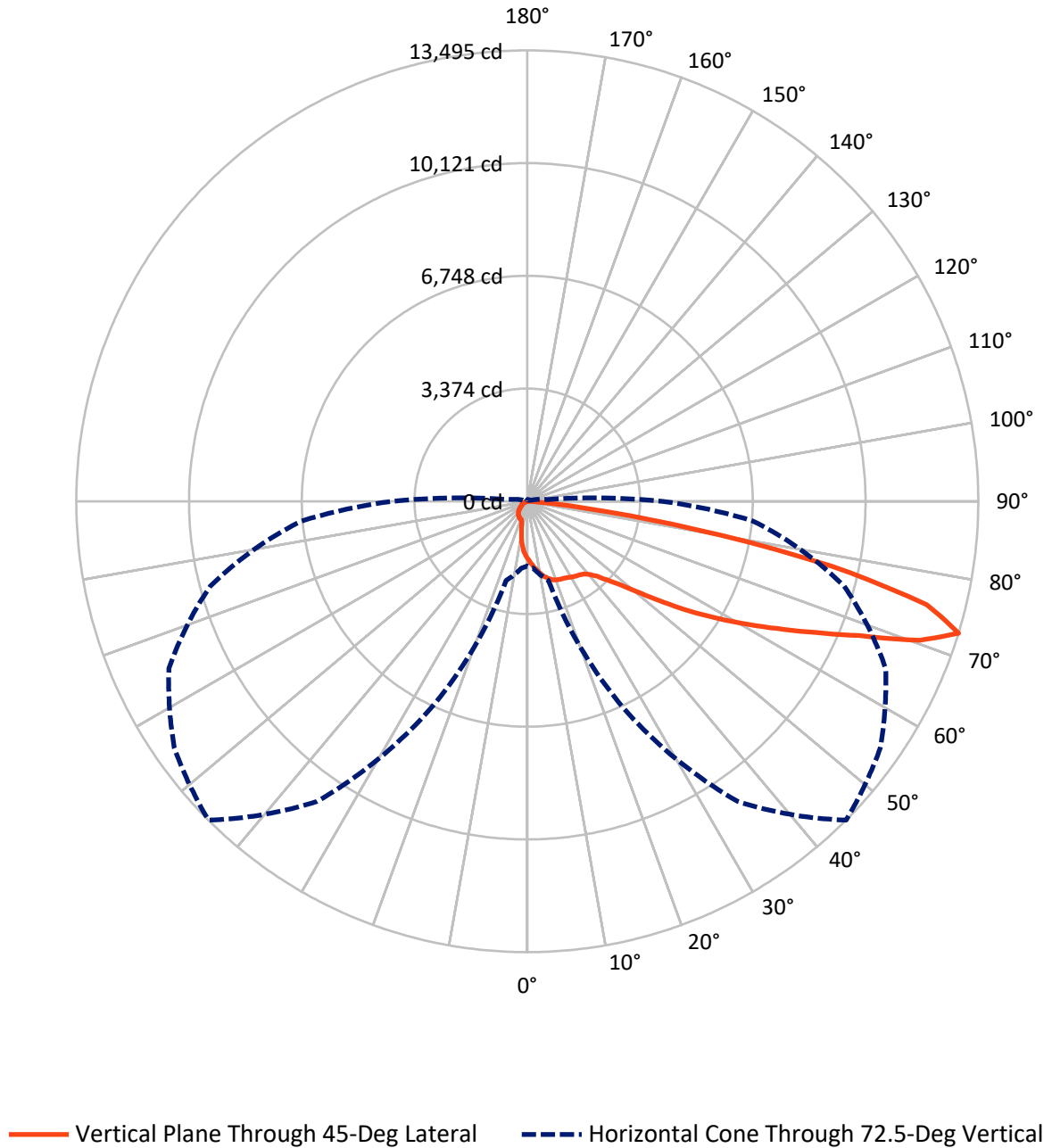
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P950729
CATALOG NUMBER: GALN-SB5A-830-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.0	0.0	1648.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14036.0	0.0	14036.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	15684.0	0.0	15684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	1.0
10°-20°	473.1	3.0
20°-30°	777.0	5.0
30°-40°	1101.9	7.0
40°-50°	1821.4	11.6
50°-60°	3271.9	20.9
60°-70°	4543.2	29.0
70°-80°	3295.5	21.0
80°-90°	238.3	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°	15684.0	100.0
0°-180°	15684.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950729

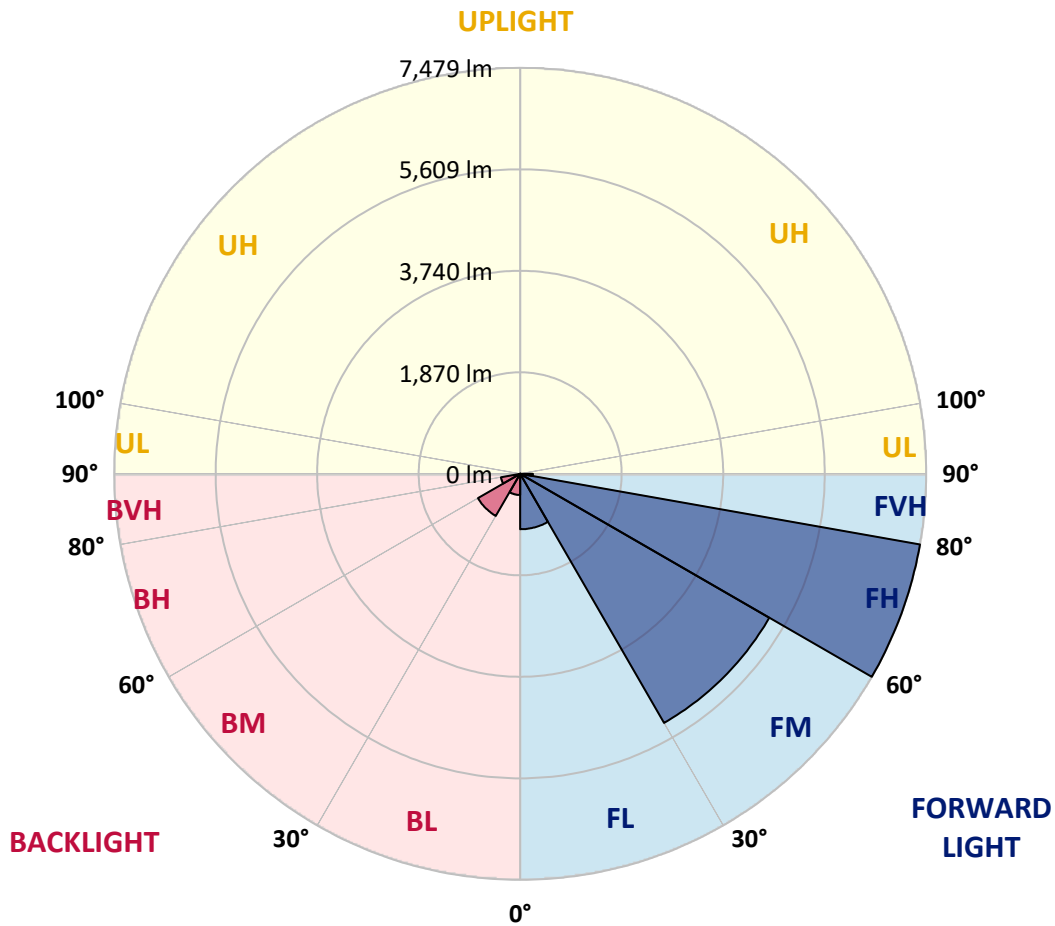
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.7	6.5			
FM (30°-60°)	5298.9	33.8			
FH (60°-80°)	7479.3	47.7			G3/7500
FVH (80°-90°)	236.2	1.5			G3/500
BL (0°-30°)	390.3	2.5	B1/500		
BM (30°-60°)	896.3	5.7	B1/1000		
BH (60°-80°)	359.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P950729
 CATALOG NUMBER: GALN-SB5A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2
2.5°	1876.7	1879.9	1877.7	1864.9	1843.5	1831.7	1825.3	1803.9	1789.9	1765.3
5°	2049.0	2061.9	2054.4	2028.7	1988.0	1959.1	1950.5	1906.6	1867.0	1821.0
7.5°	2232.1	2238.5	2224.6	2191.4	2136.8	2087.6	2080.1	2019.0	1955.9	1885.2
10°	2390.5	2398.0	2376.6	2328.4	2266.3	2205.3	2194.6	2127.2	2052.2	1965.5
12.5°	2523.3	2530.8	2502.9	2445.1	2376.6	2313.4	2302.7	2232.1	2149.6	2053.3
15°	2623.9	2637.8	2600.3	2538.2	2464.4	2401.2	2395.9	2326.3	2246.0	2138.9
17.5°	2682.8	2696.7	2661.4	2586.4	2523.3	2469.7	2463.3	2405.5	2330.6	2227.8
20°	2692.4	2705.3	2667.8	2602.5	2550.0	2507.2	2504.0	2462.2	2407.6	2309.2
22.5°	2663.5	2679.6	2645.3	2592.8	2556.4	2534.0	2529.7	2506.1	2475.1	2391.6
25°	2633.5	2646.4	2620.7	2574.6	2555.4	2553.2	2556.4	2552.2	2545.7	2475.1
27.5°	2631.4	2645.3	2616.4	2572.5	2561.8	2584.3	2587.5	2607.8	2613.2	2551.1
30°	2649.6	2659.2	2631.4	2585.4	2580.0	2631.4	2632.5	2668.9	2677.4	2615.3
32.5°	2689.2	2699.9	2672.1	2604.6	2597.1	2668.9	2672.1	2720.2	2734.2	2683.8
35°	2782.3	2795.2	2763.1	2658.1	2631.4	2704.2	2713.8	2770.6	2798.4	2756.6
37.5°	3014.6	2977.2	2933.3	2766.3	2709.5	2759.9	2775.9	2842.3	2891.5	2843.4
40°	3591.7	3473.9	3336.9	2950.4	2846.6	2878.7	2891.5	2957.9	3025.3	2978.2
42.5°	4457.7	4318.6	4098.0	3374.3	3053.2	3069.2	3078.9	3136.7	3232.0	3194.5
45°	5229.6	5179.3	4954.5	4098.0	3439.6	3360.4	3372.2	3402.2	3542.4	3528.5
47.5°	5822.7	5793.8	5620.3	4928.8	4092.7	3716.9	3750.1	3764.0	3966.3	4015.6
50°	6278.7	6268.0	6112.8	5667.4	4945.9	4242.5	4254.3	4224.3	4527.3	4649.4
52.5°	6709.1	6745.5	6630.9	6353.7	5856.9	4930.9	4928.8	4787.5	5196.4	5380.5
55°	7097.7	7110.5	7122.3	7053.8	6773.3	5714.5	5694.2	5463.0	5972.5	6163.1
57.5°	7462.7	7468.1	7573.0	7713.2	7727.2	6556.0	6518.5	6241.2	6820.4	6956.4
60°	7707.9	7732.5	7954.1	8343.8	8514.0	7424.2	7403.8	7121.2	7683.3	7746.4
62.5°	7354.6	7504.5	8063.3	8836.2	9257.0	8386.6	8377.0	8111.5	8591.1	8539.7
65°	5953.3	6207.0	7189.7	9169.2	9986.0	9461.4	9475.3	9192.7	9523.5	9356.5
67.5°	4164.4	4432.0	5594.6	9195.9	10800.7	10723.6	10803.9	10360.7	10513.8	10139.1
70°	2879.8	3017.9	3774.7	8620.0	11435.5	12462.1	12460.0	11795.2	11498.7	10495.6
72.5°	1936.6	2008.3	2451.5	6838.6	10968.7	13495.2	13433.1	12891.4	11830.5	9815.8
75°	816.8	869.3	1134.8	3843.2	8677.8	12346.5	12178.5	11392.7	10511.6	7729.3
77.5°	259.1	281.6	447.5	1375.6	4780.0	9280.5	9102.8	7114.8	7045.2	3877.5
80°	123.1	143.5	251.6	552.4	1880.9	5047.6	5023.0	3227.7	3030.7	1047.0
82.5°	53.5	63.2	139.2	295.5	841.4	1800.6	1837.0	1098.4	908.9	397.2
85°	17.1	22.5	64.2	136.0	355.4	447.5	442.1	261.2	366.1	216.2
87.5°	0.0	0.0	21.4	31.0	36.4	25.7	28.9	22.5	101.7	60.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950729

CATALOG NUMBER: GALN-SB5A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1718.2	0°	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2	1718.2
1739.6	2.5°	1726.8	1709.7	1679.7	1651.8	1627.2	1602.6	1587.6	1566.2	1564.1	1564.1
1767.5	5°	1738.6	1710.7	1657.2	1600.5	1535.2	1473.1	1411.0	1351.0	1331.8	1317.8
1812.4	7.5°	1772.8	1728.9	1644.3	1536.2	1412.0	1276.1	1180.8	1078.0	1038.4	1017.0
1872.4	10°	1822.1	1762.1	1633.6	1444.2	1242.9	1057.7	921.7	810.4	767.6	749.4
1937.7	12.5°	1876.7	1802.8	1614.4	1329.6	1057.7	836.1	703.3	652.0	645.5	645.5
2015.8	15°	1942.0	1852.0	1581.2	1194.7	863.9	661.6	614.5	616.6	623.1	627.3
2091.8	17.5°	2009.4	1904.5	1528.7	1043.8	692.6	595.2	596.3	599.5	604.9	609.1
2174.3	20°	2082.2	1956.9	1459.1	883.2	594.1	576.0	579.2	582.4	586.7	588.8
2251.3	22.5°	2160.3	2006.2	1376.7	725.8	561.0	559.9	561.0	564.2	569.5	569.5
2341.3	25°	2243.9	2060.8	1282.5	611.3	543.8	543.8	546.0	548.1	552.4	552.4
2428.0	27.5°	2329.5	2111.1	1182.9	551.3	528.8	527.8	527.8	531.0	533.1	534.2
2513.6	30°	2423.7	2170.0	1083.4	538.5	517.1	511.7	508.5	510.6	512.8	513.9
2603.6	32.5°	2520.0	2226.7	994.5	543.8	505.3	495.7	485.0	482.8	482.8	487.1
2696.7	35°	2627.1	2288.8	926.0	562.0	498.9	472.1	455.0	445.3	446.4	452.8
2808.0	37.5°	2755.6	2363.8	875.7	578.1	494.6	445.3	417.5	405.7	398.2	405.7
2961.1	40°	2923.6	2474.0	839.3	590.9	489.2	414.3	376.8	357.6	343.6	347.9
3198.8	42.5°	3170.9	2647.4	825.4	592.0	477.5	377.9	335.1	309.4	289.0	290.1
3556.3	45°	3517.8	2921.5	897.1	578.1	451.8	338.3	291.2	256.9	244.1	240.9
4090.5	47.5°	3993.1	3320.8	1063.0	549.2	414.3	299.8	248.4	219.5	209.8	204.5
4791.7	50°	4630.1	3833.6	1247.2	517.1	376.8	263.4	213.0	194.8	188.4	183.1
5623.5	52.5°	5368.8	4353.9	1398.1	485.0	339.4	231.2	190.6	179.9	174.5	170.2
6426.4	55°	6046.4	4712.5	1389.6	450.7	303.0	205.5	174.5	168.1	161.7	157.4
7118.0	57.5°	6468.2	4762.8	1145.5	413.2	261.2	185.2	159.5	155.2	147.7	142.4
7716.4	60°	6662.0	4475.9	802.9	364.0	219.5	165.9	143.5	141.3	131.7	124.2
8282.8	62.5°	6697.3	3942.8	535.3	303.0	183.1	147.7	127.4	124.2	111.3	98.5
8743.1	65°	6553.8	3180.6	370.4	236.6	156.3	128.5	109.2	102.8	88.9	76.0
8852.3	67.5°	6099.9	2233.1	258.0	170.2	132.7	101.7	86.7	84.6	73.9	63.2
8295.6	70°	5268.1	1272.9	172.4	127.4	104.9	69.6	68.5	70.7	60.0	51.4
6777.6	72.5°	4039.1	582.4	107.1	93.1	71.7	47.1	54.6	55.7	46.0	38.5
4228.6	75°	2377.7	249.4	67.4	60.0	36.4	31.0	39.6	40.7	31.0	24.6
1545.9	77.5°	809.3	94.2	42.8	35.3	18.2	17.1	25.7	25.7	17.1	9.6
310.5	80°	184.1	35.3	21.4	13.9	8.6	7.5	8.6	7.5	4.3	1.1
95.3	82.5°	52.5	13.9	8.6	5.4	3.2	3.2	1.1	0.0	0.0	0.0
33.2	85°	15.0	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	6.4	1.1	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>
1718.2
1569.4
1324.3
1020.2
749.4
645.5
627.3
609.1
589.9
571.7
553.5
535.3
516.0
490.3
456.0
403.6
345.8
285.8
236.6
201.3
182.0
169.1
155.2
141.3
122.0
92.1
71.7
60.0
47.1
34.3
21.4
7.5
0.0
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0.0
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