

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: P947537

Luminaire Tested: **GALN-SB2D-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947537
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-SB2D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA 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: 14540 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

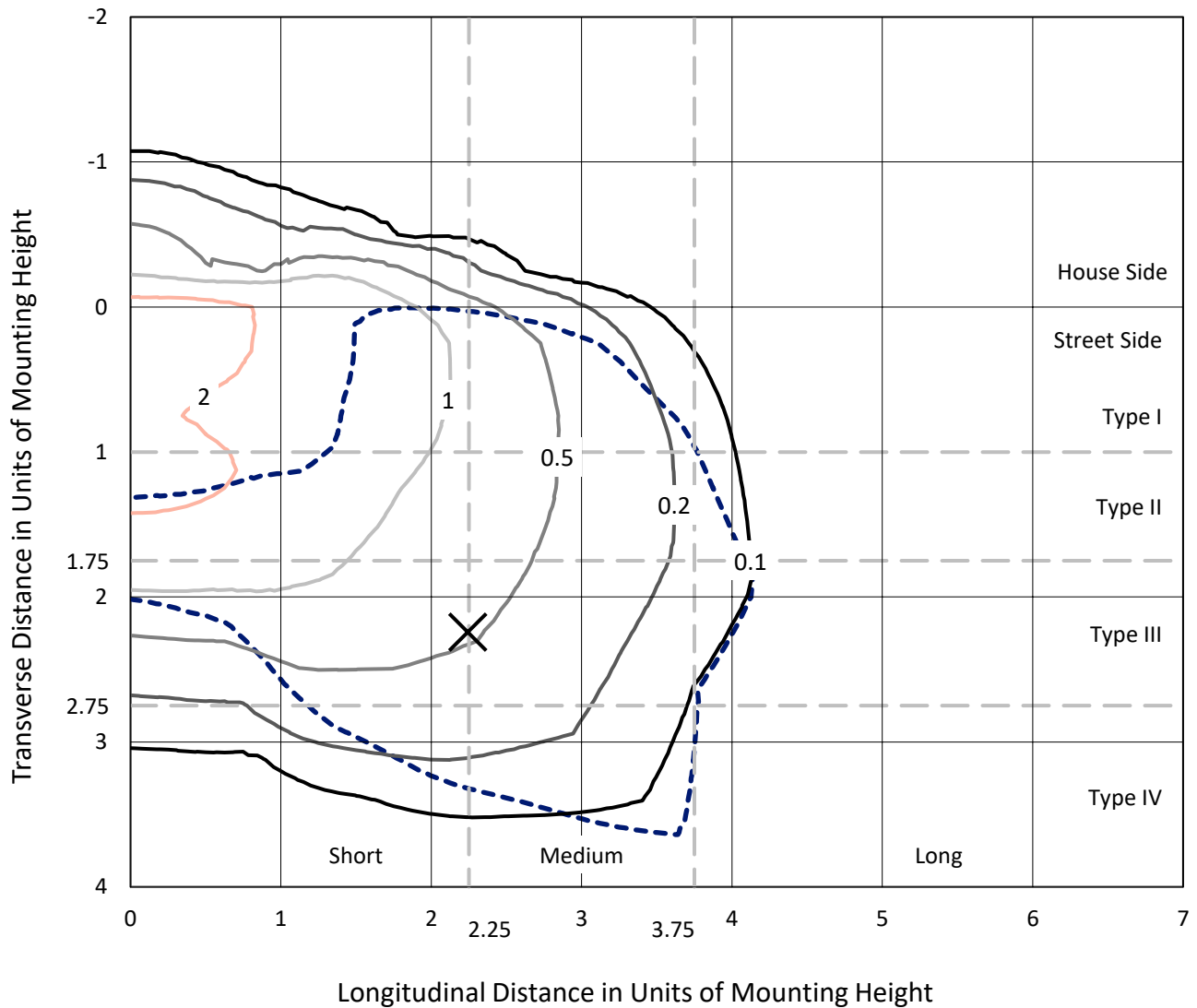
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947537
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Iso-Footcandle Lines of Horizontal Illumination

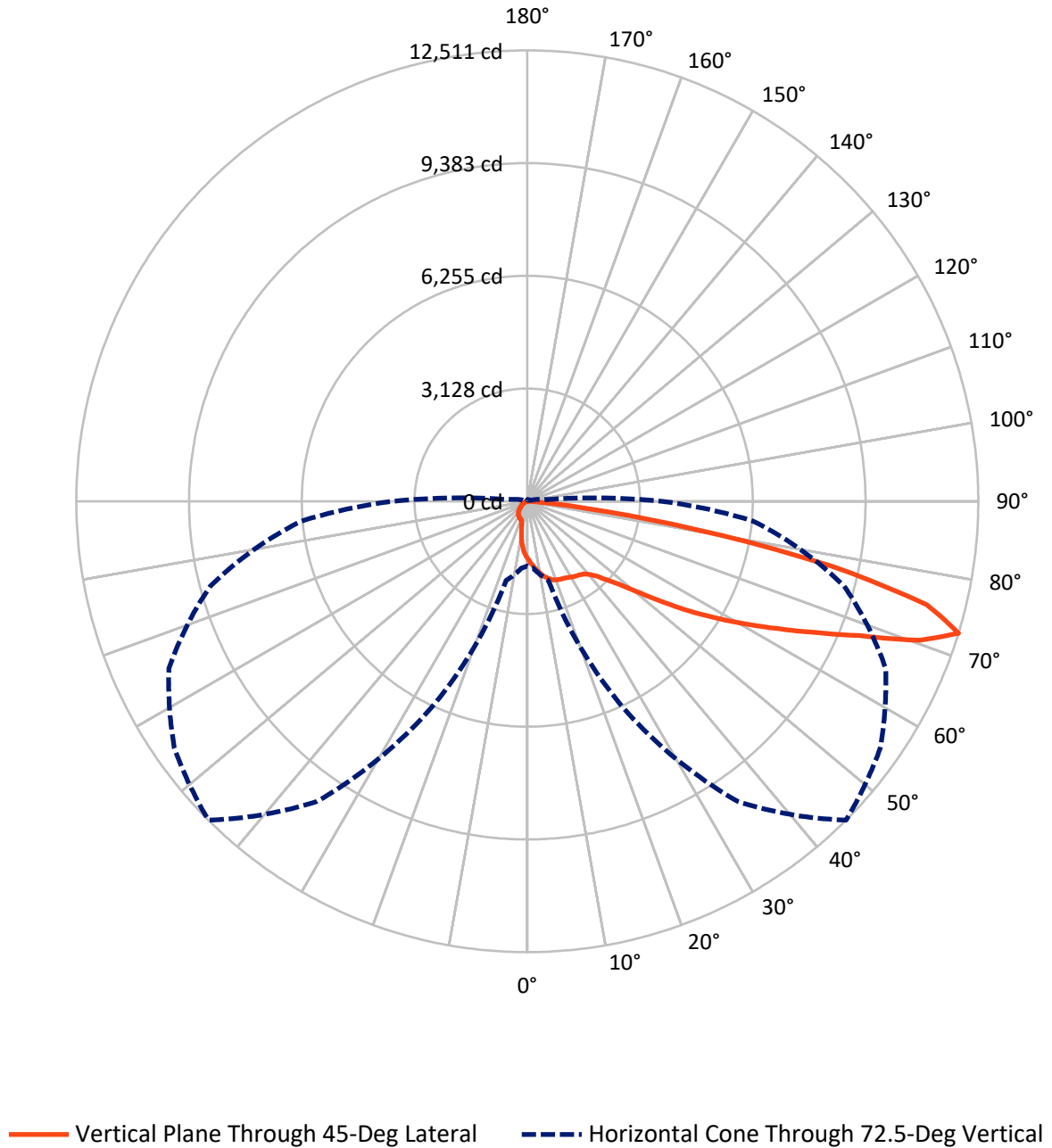
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P947537
CATALOG NUMBER: GALN-SB2D-835-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.8	0.0	1527.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13012.2	0.0	13012.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	14540.0	0.0	14540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.0
10°-20°	438.6	3.0
20°-30°	720.3	5.0
30°-40°	1021.5	7.0
40°-50°	1688.5	11.6
50°-60°	3033.2	20.9
60°-70°	4211.8	29.0
70°-80°	3055.1	21.0
80°-90°	220.9	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°	14540.0	100.0
0°-180°	14540.0	100.0



REPORT NUMBER: P947537

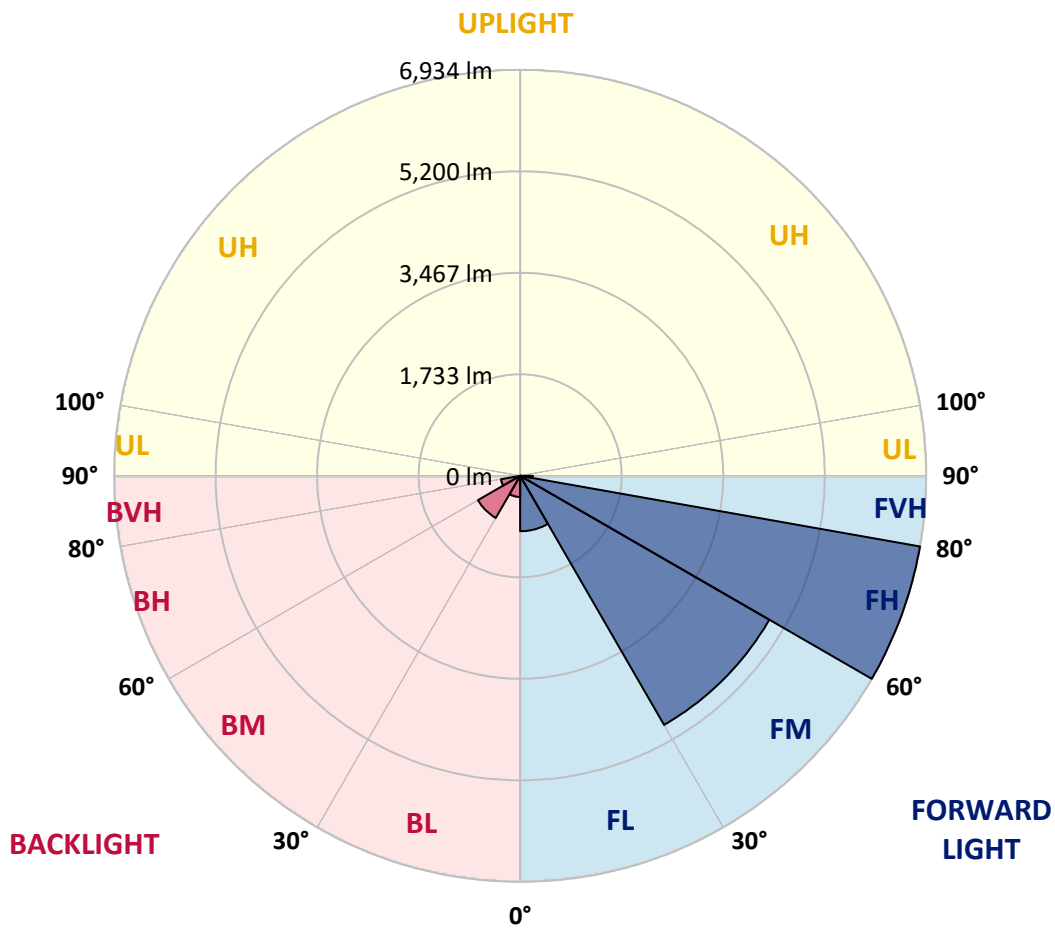
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.1	6.5			
FM (30°-60°)	4912.4	33.8			
FH (60°-80°)	6933.7	47.7			G3/7500
FVH (80°-90°)	219.0	1.5			G2/225
BL (0°-30°)	361.9	2.5	B1/500		
BM (30°-60°)	830.9	5.7	B1/1000		
BH (60°-80°)	333.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
2.5°	1739.8	1742.7	1740.8	1728.9	1709.0	1698.1	1692.1	1672.3	1659.4	1636.6
5°	1899.6	1911.5	1904.5	1880.7	1843.0	1816.2	1808.3	1767.6	1730.8	1688.2
7.5°	2069.3	2075.2	2062.3	2031.6	1980.9	1935.3	1928.3	1871.8	1813.2	1747.7
10°	2216.1	2223.1	2203.2	2158.6	2101.0	2044.5	2034.5	1972.0	1902.5	1822.1
12.5°	2339.2	2346.2	2320.4	2266.8	2203.2	2144.7	2134.8	2069.3	1992.8	1903.5
15°	2432.5	2445.4	2410.7	2353.1	2284.6	2226.1	2221.1	2156.6	2082.2	1982.9
17.5°	2487.1	2500.0	2467.2	2397.8	2339.2	2289.6	2283.6	2230.0	2160.6	2065.3
20°	2496.0	2507.9	2473.2	2412.7	2364.0	2324.3	2321.3	2282.6	2232.0	2140.7
22.5°	2469.2	2484.1	2452.4	2403.7	2370.0	2349.1	2345.2	2323.3	2294.6	2217.1
25°	2441.4	2453.3	2429.5	2386.9	2369.0	2367.0	2370.0	2366.0	2360.1	2294.6
27.5°	2439.5	2452.4	2425.6	2384.9	2374.9	2395.8	2398.8	2417.6	2422.6	2365.0
30°	2456.3	2465.3	2439.5	2396.8	2391.8	2439.5	2440.4	2474.2	2482.1	2424.6
32.5°	2493.0	2503.0	2477.2	2414.6	2407.7	2474.2	2477.2	2521.8	2534.7	2488.1
35°	2579.4	2591.3	2561.5	2464.3	2439.5	2506.9	2515.9	2568.5	2594.3	2555.6
37.5°	2794.7	2760.0	2719.3	2564.5	2511.9	2558.5	2573.4	2635.0	2680.6	2636.0
40°	3329.7	3220.5	3093.5	2735.2	2638.9	2668.7	2680.6	2742.1	2804.7	2761.0
42.5°	4132.6	4003.6	3799.1	3128.2	2830.5	2845.4	2854.3	2907.9	2996.2	2961.5
45°	4848.1	4801.5	4593.1	3799.1	3188.8	3115.3	3126.2	3154.0	3284.0	3271.1
47.5°	5398.0	5371.2	5210.4	4569.3	3794.1	3445.8	3476.6	3489.5	3677.0	3722.7
50°	5820.7	5810.8	5666.9	5254.0	4585.1	3933.1	3944.0	3916.2	4197.1	4310.2
52.5°	6219.7	6253.4	6147.3	5890.2	5429.7	4571.2	4569.3	4438.3	4817.4	4988.1
55°	6580.0	6591.9	6602.8	6539.3	6279.3	5297.7	5278.9	5064.5	5536.9	5713.6
57.5°	6918.4	6923.4	7020.6	7150.6	7163.5	6077.8	6043.0	5786.0	6322.9	6449.0
60°	7145.7	7168.5	7373.9	7735.2	7893.0	6882.7	6863.8	6601.8	7122.8	7181.4
62.5°	6818.2	6957.1	7475.2	8191.7	8581.7	7774.9	7765.9	7519.8	7964.4	7916.8
65°	5519.0	5754.2	6665.3	8500.4	9257.6	8771.3	8784.2	8522.2	8828.9	8674.0
67.5°	3860.6	4108.8	5186.6	8525.2	10012.9	9941.4	10015.8	9605.0	9746.9	9399.5
70°	2669.7	2797.7	3499.4	7991.2	10601.4	11553.2	11551.2	10934.9	10659.9	9730.0
72.5°	1795.3	1861.8	2272.7	6339.8	10168.7	12510.9	12453.3	11951.1	10967.6	9099.8
75°	757.2	805.9	1052.0	3562.9	8044.8	11446.0	11290.2	10561.7	9744.9	7165.5
77.5°	240.2	261.0	414.8	1275.3	4431.3	8603.6	8438.8	6595.8	6531.3	3594.7
80°	114.1	133.0	233.2	512.1	1743.7	4679.4	4656.6	2992.2	2809.6	970.6
82.5°	49.6	58.6	129.0	273.9	780.1	1669.3	1703.1	1018.3	842.6	368.2
85°	15.9	20.8	59.5	126.0	329.5	414.8	409.9	242.2	339.4	200.5
87.5°	0.0	0.0	19.8	28.8	33.7	23.8	26.8	20.8	94.3	55.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947537
 CATALOG NUMBER: GALN-SB2D-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1592.9	0°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
1612.7	2.5°	1600.8	1584.9	1557.2	1531.4	1508.5	1485.7	1471.8	1452.0	1450.0	1450.0
1638.5	5°	1611.7	1585.9	1536.3	1483.7	1423.2	1365.6	1308.1	1252.5	1234.6	1221.7
1680.2	7.5°	1643.5	1602.8	1524.4	1424.2	1309.0	1183.0	1094.7	999.4	962.7	942.8
1735.8	10°	1689.2	1633.6	1514.5	1338.8	1152.2	980.5	854.5	751.3	711.6	694.7
1796.3	12.5°	1739.8	1671.3	1496.6	1232.6	980.5	775.1	652.0	604.4	598.4	598.4
1868.8	15°	1800.3	1716.9	1465.9	1107.6	800.9	613.3	569.7	571.7	577.6	581.6
1939.3	17.5°	1862.8	1765.6	1417.2	967.6	642.1	551.8	552.8	555.8	560.7	564.7
2015.7	20°	1930.3	1814.2	1352.7	818.8	550.8	533.9	536.9	539.9	543.9	545.8
2087.1	22.5°	2002.8	1859.9	1276.3	672.9	520.0	519.1	520.0	523.0	528.0	528.0
2170.5	25°	2080.2	1910.5	1189.0	566.7	504.2	504.2	506.2	508.1	512.1	512.1
2250.9	27.5°	2159.6	1957.1	1096.7	511.1	490.3	489.3	489.3	492.3	494.2	495.2
2330.3	30°	2246.9	2011.7	1004.4	499.2	479.4	474.4	471.4	473.4	475.4	476.4
2413.6	32.5°	2336.2	2064.3	922.0	504.2	468.4	459.5	449.6	447.6	447.6	451.6
2500.0	35°	2435.5	2121.9	858.5	521.0	462.5	437.7	421.8	412.9	413.9	419.8
2603.2	37.5°	2554.6	2191.3	811.8	535.9	458.5	412.9	387.1	376.1	369.2	376.1
2745.1	40°	2710.4	2293.6	778.1	547.8	453.6	384.1	349.3	331.5	318.6	322.5
2965.5	42.5°	2939.6	2454.3	765.2	548.8	442.6	350.3	310.6	286.8	268.0	269.0
3296.9	45°	3261.2	2708.4	831.7	535.9	418.8	313.6	269.9	238.2	226.3	223.3
3792.2	47.5°	3701.9	3078.6	985.5	509.1	384.1	277.9	230.2	203.5	194.5	189.6
4442.2	50°	4292.4	3554.0	1156.2	479.4	349.3	244.1	197.5	180.6	174.7	169.7
5213.4	52.5°	4977.2	4036.3	1296.1	449.6	314.6	214.4	176.7	166.7	161.8	157.8
5957.7	55°	5605.4	4368.8	1288.2	417.8	280.9	190.6	161.8	155.8	149.9	145.9
6598.8	57.5°	5996.4	4415.4	1061.9	383.1	242.2	171.7	147.9	143.9	137.0	132.0
7153.6	60°	6176.0	4149.4	744.3	337.4	203.5	153.8	133.0	131.0	122.1	115.1
7678.6	62.5°	6208.8	3655.2	496.2	280.9	169.7	137.0	118.1	115.1	103.2	91.3
8105.4	65°	6075.8	2948.6	343.4	219.3	144.9	119.1	101.2	95.3	82.4	70.5
8206.6	67.5°	5655.0	2070.3	239.2	157.8	123.1	94.3	80.4	78.4	68.5	58.6
7690.5	70°	4883.9	1180.0	159.8	118.1	97.3	64.5	63.5	65.5	55.6	47.6
6283.2	72.5°	3744.5	539.9	99.2	86.3	66.5	43.7	50.6	51.6	42.7	35.7
3920.2	75°	2204.2	231.2	62.5	55.6	33.7	28.8	36.7	37.7	28.8	22.8
1433.1	77.5°	750.3	87.3	39.7	32.8	16.9	15.9	23.8	23.8	15.9	8.9
287.8	80°	170.7	32.8	19.8	12.9	7.9	6.9	7.9	6.9	4.0	1.0
88.3	82.5°	48.6	12.9	7.9	5.0	3.0	3.0	1.0	0.0	0.0	0.0
30.8	85°	13.9	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	6.0	1.0	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>
1592.9
1454.9
1227.7
945.8
694.7
598.4
581.6
564.7
546.8
530.0
513.1
496.2
478.4
454.5
422.8
374.2
320.6
265.0
219.3
186.6
168.7
156.8
143.9
131.0
113.1
85.4
66.5
55.6
43.7
<i>31.8</i>
19.8
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