

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: P949196

Luminaire Tested: **GALN-SB4A-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949196
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-SB4A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 13848 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

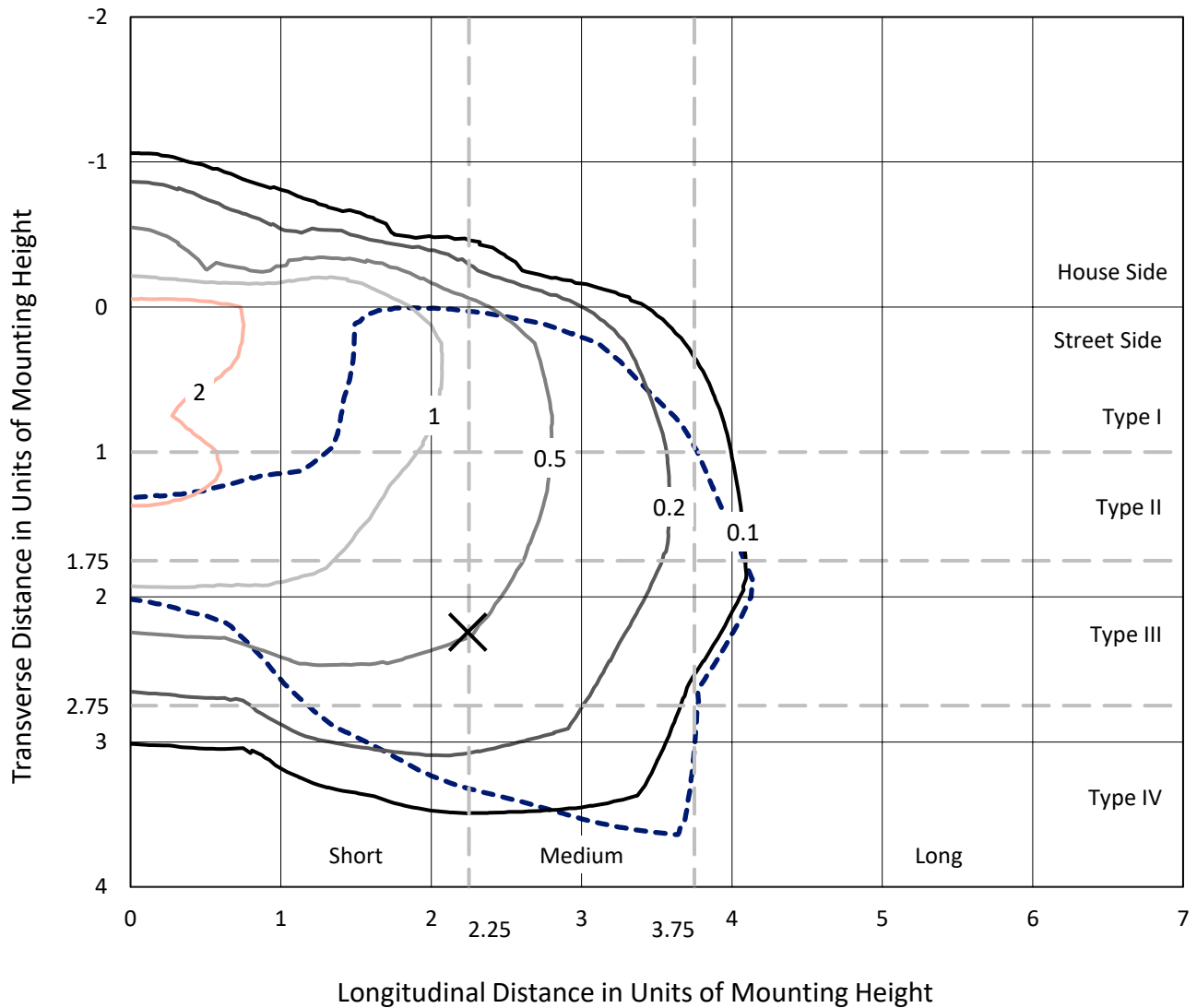
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949196
 CATALOG NUMBER: GALN-SB4A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

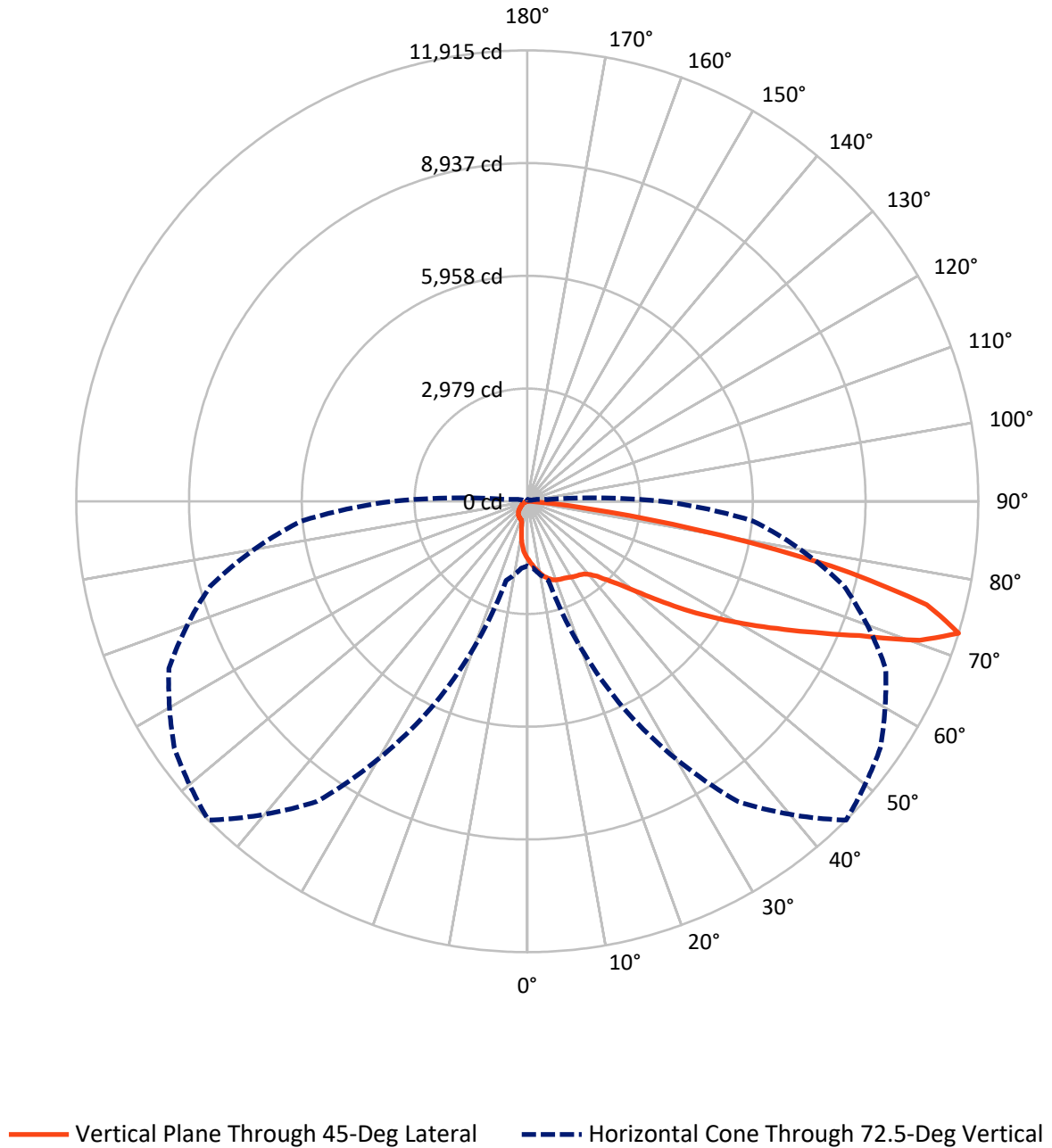
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P949196
CATALOG NUMBER: GALN-SB4A-735-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.0	0.0	1455.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12392.9	0.0	12392.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	13848.0	0.0	13848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.0
10°-20°	417.7	3.0
20°-30°	686.0	5.0
30°-40°	972.9	7.0
40°-50°	1608.1	11.6
50°-60°	2888.9	20.9
60°-70°	4011.3	29.0
70°-80°	2909.7	21.0
80°-90°	210.4	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°	13848.0	100.0
0°-180°	13848.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949196

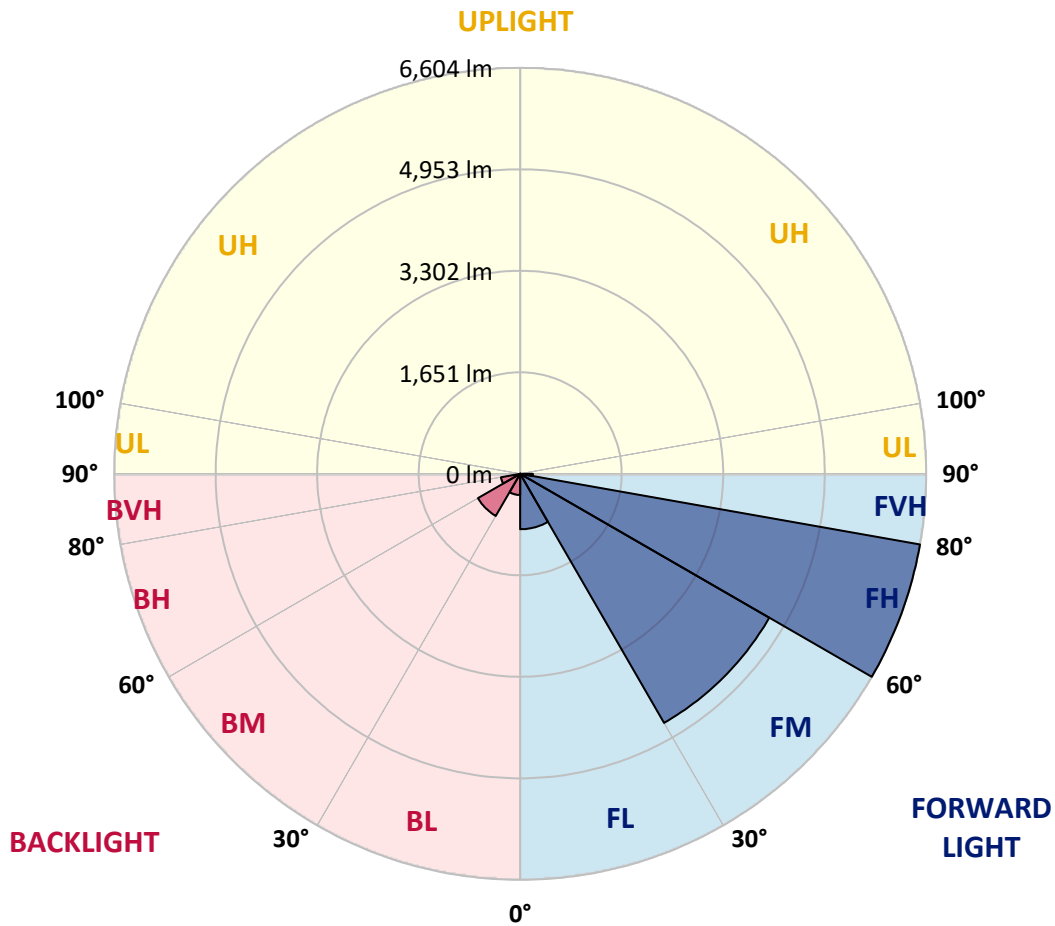
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.1	6.5			
FM (30°-60°)	4678.6	33.8			
FH (60°-80°)	6603.7	47.7			G3/7500
FVH (80°-90°)	208.6	1.5			G2/225
BL (0°-30°)	344.6	2.5	B1/500		
BM (30°-60°)	791.3	5.7	B1/1000		
BH (60°-80°)	317.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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: P949196
 CATALOG NUMBER: GALN-SB4A-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1
2.5°	1657.0	1659.8	1657.9	1646.6	1627.7	1617.3	1611.6	1592.7	1580.4	1558.7
5°	1809.2	1820.5	1813.9	1791.2	1755.3	1729.8	1722.2	1683.4	1648.5	1607.8
7.5°	1970.8	1976.5	1964.2	1934.9	1886.7	1843.2	1836.6	1782.7	1726.9	1664.5
10°	2110.7	2117.3	2098.4	2055.9	2001.0	1947.2	1937.7	1878.2	1812.0	1735.4
12.5°	2227.9	2234.5	2209.9	2158.9	2098.4	2042.6	2033.2	1970.8	1898.0	1812.9
15°	2316.7	2329.0	2295.9	2241.1	2175.9	2120.1	2115.4	2054.0	1983.1	1888.5
17.5°	2368.7	2381.0	2349.8	2283.7	2227.9	2180.6	2175.0	2123.9	2057.7	1967.0
20°	2377.2	2388.6	2355.5	2297.8	2251.5	2213.7	2210.9	2174.0	2125.8	2038.8
22.5°	2351.7	2365.9	2335.6	2289.3	2257.2	2237.3	2233.6	2212.8	2185.3	2111.6
25°	2325.2	2336.6	2313.9	2273.3	2256.2	2254.3	2257.2	2253.4	2247.7	2185.3
27.5°	2323.4	2335.6	2310.1	2271.4	2261.9	2281.8	2284.6	2302.6	2307.3	2252.5
30°	2339.4	2347.9	2323.4	2282.7	2278.0	2323.4	2324.3	2356.4	2364.0	2309.2
32.5°	2374.4	2383.8	2359.3	2299.7	2293.1	2356.4	2359.3	2401.8	2414.1	2369.7
35°	2456.6	2468.0	2439.6	2347.0	2323.4	2387.6	2396.1	2446.2	2470.8	2433.9
37.5°	2661.7	2628.7	2589.9	2442.4	2392.4	2436.8	2451.0	2509.6	2553.0	2510.5
40°	3171.2	3067.2	2946.3	2605.0	2513.3	2541.7	2553.0	2611.6	2671.2	2629.6
42.5°	3935.9	3813.0	3618.3	2979.3	2695.8	2709.9	2718.5	2769.5	2853.6	2820.5
45°	4617.4	4573.0	4374.5	3618.3	3037.0	2967.0	2977.4	3003.9	3127.7	3115.4
47.5°	5141.1	5115.5	4962.4	4351.8	3613.6	3281.8	3311.1	3323.4	3502.0	3545.5
50°	5543.7	5534.3	5397.2	5004.0	4366.9	3745.9	3756.3	3729.8	3997.3	4105.1
52.5°	5923.7	5955.8	5854.7	5609.9	5171.3	4353.7	4351.8	4227.0	4588.1	4750.7
55°	6266.8	6278.2	6288.5	6228.1	5980.4	5045.6	5027.6	4823.5	5273.4	5441.6
57.5°	6589.1	6593.9	6686.5	6810.3	6822.6	5788.5	5755.4	5510.6	6022.0	6142.0
60°	6805.6	6827.3	7023.0	7367.0	7517.3	6555.1	6537.1	6287.6	6783.8	6839.6
62.5°	6493.7	6626.0	7119.4	7801.8	8173.3	7404.9	7396.3	7161.9	7585.4	7540.0
65°	5256.4	5480.4	6348.1	8095.8	8817.0	8353.9	8366.1	8116.6	8408.7	8261.2
67.5°	3676.9	3913.2	4939.7	8119.4	9536.3	9468.3	9539.2	9147.8	9283.0	8952.2
70°	2542.6	2664.6	3332.8	7610.9	10096.8	11003.3	11001.4	10414.4	10152.6	9266.9
72.5°	1709.9	1773.2	2164.6	6038.1	9684.7	11915.4	11860.6	11382.3	10445.6	8666.7
75°	721.2	767.5	1001.9	3393.3	7662.0	10901.2	10752.8	10059.0	9281.1	6824.5
77.5°	228.7	248.6	395.1	1214.6	4220.4	8194.1	8037.2	6281.9	6220.5	3423.6
80°	108.7	126.7	222.1	487.7	1660.8	4456.7	4435.0	2849.8	2675.9	924.4
82.5°	47.3	55.8	122.9	260.9	742.9	1589.9	1622.0	969.8	802.5	350.7
85°	15.1	19.8	56.7	120.0	313.8	395.1	390.4	230.6	323.3	190.9
87.5°	0.0	0.0	18.9	27.4	32.1	22.7	25.5	19.8	89.8	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949196
 CATALOG NUMBER: GALN-SB4A-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1517.1	0°	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1
1536.0	2.5°	1524.6	1509.5	1483.0	1458.5	1436.7	1415.0	1401.8	1382.9	1381.0	1381.0
1560.6	5°	1535.0	1510.5	1463.2	1413.1	1355.4	1300.6	1245.8	1192.9	1175.9	1163.6
1600.3	7.5°	1565.3	1526.5	1451.9	1356.4	1246.7	1126.7	1042.6	951.8	916.9	898.0
1653.2	10°	1608.8	1555.8	1442.4	1275.1	1097.4	933.9	813.8	715.5	677.7	661.7
1710.8	12.5°	1657.0	1591.8	1425.4	1174.0	933.9	738.2	621.0	575.6	570.0	570.0
1779.8	15°	1714.6	1635.2	1396.1	1054.9	762.8	584.1	542.6	544.4	550.1	553.9
1847.0	17.5°	1774.2	1681.5	1349.8	921.6	611.6	525.5	526.5	529.3	534.0	537.8
1919.7	20°	1838.5	1727.9	1288.3	779.8	524.6	508.5	511.4	514.2	518.0	519.9
1987.8	22.5°	1907.5	1771.3	1215.6	640.9	495.3	494.3	495.3	498.1	502.9	502.9
2067.2	25°	1981.2	1819.5	1132.4	539.7	480.2	480.2	482.1	484.0	487.7	487.7
2143.8	27.5°	2056.8	1864.0	1044.5	486.8	466.9	466.0	466.0	468.8	470.7	471.7
2219.4	30°	2140.0	1916.0	956.6	475.4	456.5	451.8	449.0	450.9	452.8	453.7
2298.8	32.5°	2225.0	1966.1	878.1	480.2	446.1	437.6	428.2	426.3	426.3	430.1
2381.0	35°	2319.6	2020.9	817.6	496.2	440.5	416.8	401.7	393.2	394.2	399.8
2479.3	37.5°	2433.0	2087.0	773.2	510.4	436.7	393.2	368.6	358.2	351.6	358.2
2614.5	40°	2581.4	2184.4	741.1	521.8	432.0	365.8	332.7	315.7	303.4	307.2
2824.3	42.5°	2799.7	2337.5	728.8	522.7	421.6	333.7	295.9	273.2	255.2	256.2
3140.0	45°	3106.0	2579.5	792.1	510.4	398.9	298.7	257.1	226.9	215.5	212.7
3611.7	47.5°	3525.7	2932.1	938.6	484.9	365.8	264.7	219.3	193.8	185.3	180.5
4230.8	50°	4088.1	3384.8	1101.2	456.5	332.7	232.5	188.1	172.0	166.4	161.6
4965.2	52.5°	4740.3	3844.2	1234.5	428.2	299.6	204.2	168.2	158.8	154.1	150.3
5674.2	55°	5338.6	4160.9	1226.9	397.9	267.5	181.5	154.1	148.4	142.7	138.9
6284.8	57.5°	5711.0	4205.3	1011.4	364.9	230.6	163.5	140.8	137.1	130.4	125.7
6813.1	60°	5882.1	3952.0	708.9	321.4	193.8	146.5	126.7	124.8	116.3	109.6
7313.2	62.5°	5913.3	3481.2	472.6	267.5	161.6	130.4	112.5	109.6	98.3	87.0
7719.6	65°	5786.6	2808.2	327.0	208.9	138.0	113.4	96.4	90.7	78.5	67.1
7816.0	67.5°	5385.9	1971.7	227.8	150.3	117.2	89.8	76.6	74.7	65.2	55.8
7324.5	70°	4651.4	1123.9	152.2	112.5	92.6	61.4	60.5	62.4	52.9	45.4
5984.2	72.5°	3566.3	514.2	94.5	82.2	63.3	41.6	48.2	49.2	40.6	34.0
3733.6	75°	2099.3	220.2	59.5	52.9	32.1	27.4	35.0	35.9	27.4	21.7
1364.9	77.5°	714.6	83.2	37.8	31.2	16.1	15.1	22.7	22.7	15.1	8.5
274.1	80°	162.6	31.2	18.9	12.3	7.6	6.6	7.6	6.6	3.8	0.9
84.1	82.5°	46.3	12.3	7.6	4.7	2.8	2.8	0.9	0.0	0.0	0.0
29.3	85°	13.2	5.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	5.7	0.9	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>
1517.1
1385.7
1169.2
900.8
661.7
570.0
553.9
537.8
520.8
504.7
488.7
472.6
455.6
432.9
402.7
356.3
305.3
252.4
208.9
177.7
160.7
149.3
137.1
124.8
107.8
81.3
63.3
52.9
41.6
30.2
18.9
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