

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: P945789

Luminaire Tested: **GALN-SB1C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7299 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

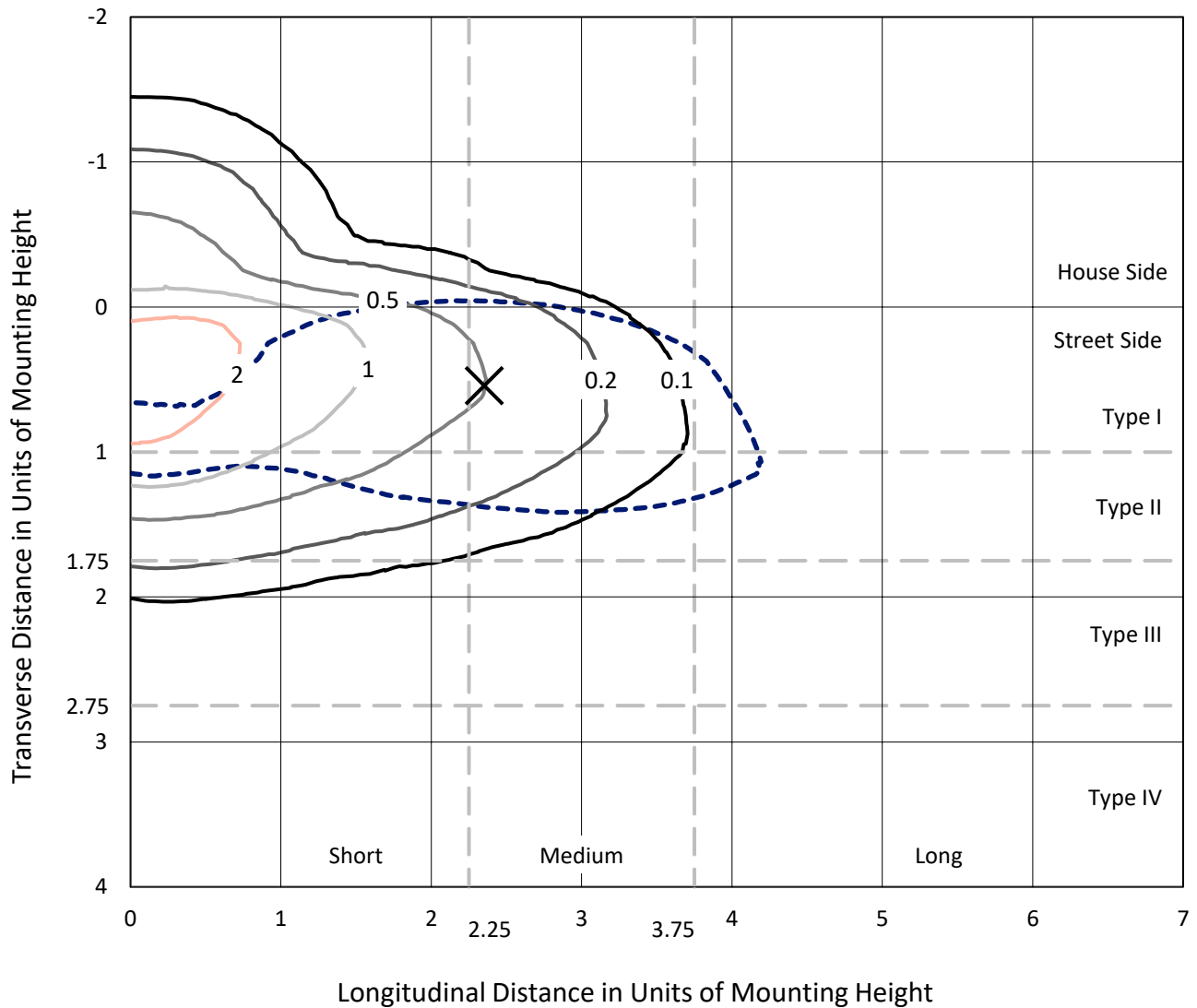
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

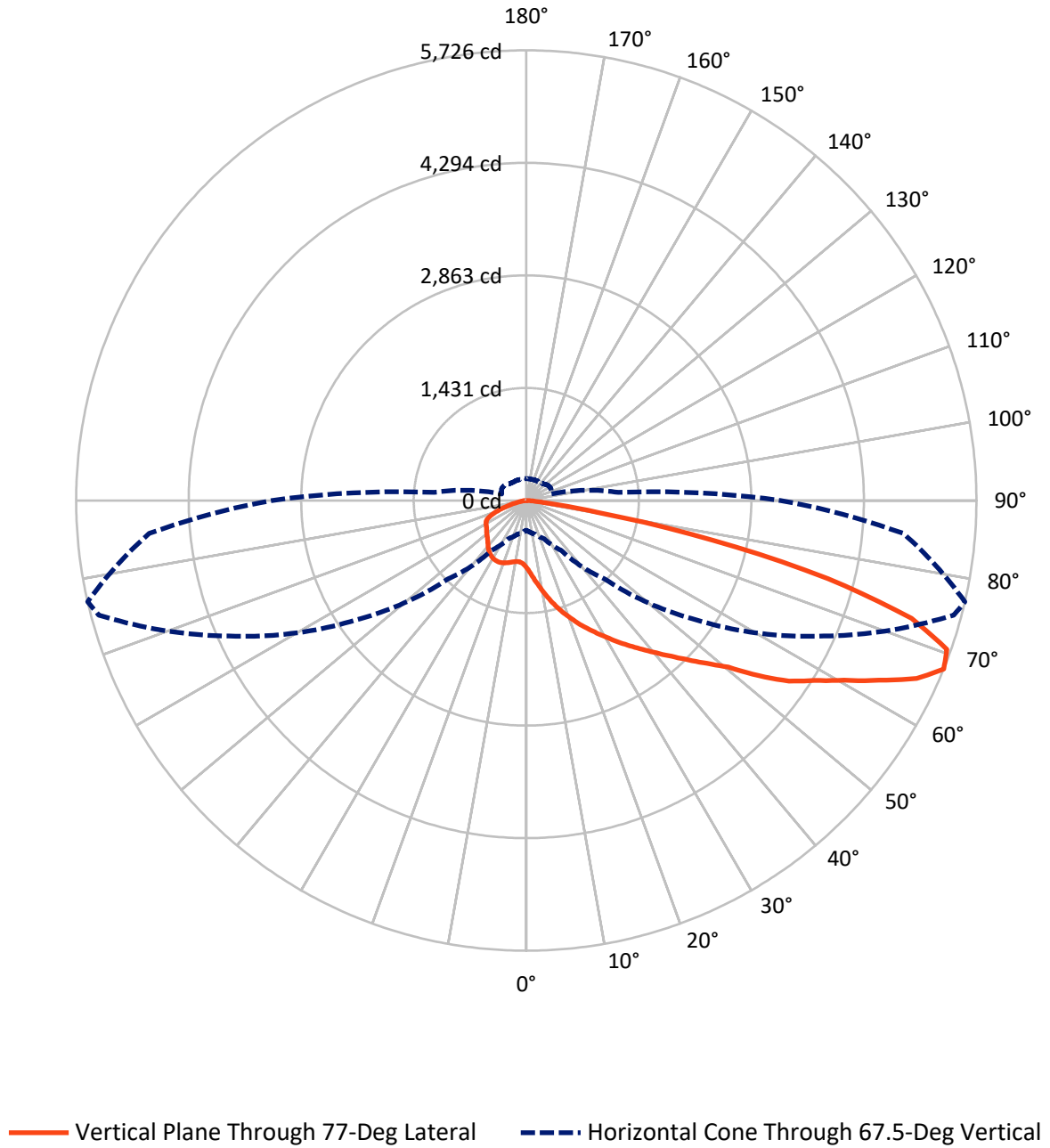
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.7	0.0	1380.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5918.3	0.0	5918.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	7299.0	0.0	7299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.3
10°-20°	329.8	4.5
20°-30°	622.7	8.5
30°-40°	1003.1	13.7
40°-50°	1372.0	18.8
50°-60°	1547.7	21.2
60°-70°	1444.6	19.8
70°-80°	791.9	10.8
80°-90°	95.5	1.3
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°	7299.0	100.0
0°-180°	7299.0	100.0

Coefficient of Utilization



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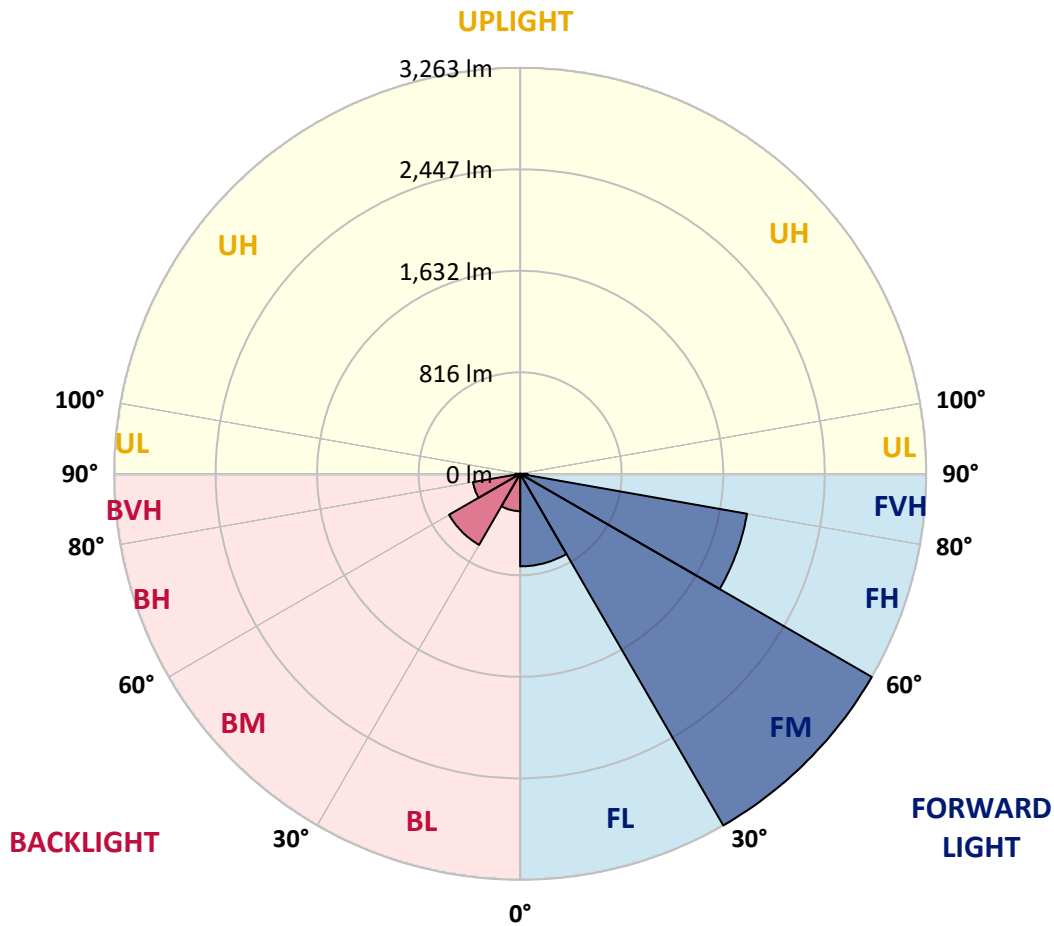
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.0	10.2			
FM (30°-60°)	3263.3	44.7			
FH (60°-80°)	1851.2	25.4			G2/5000
FVH (80°-90°)	59.7	0.8			G1/100
BL (0°-30°)	300.2	4.1	B1/500		
BM (30°-60°)	659.5	9.0	B1/1000		
BH (60°-80°)	385.2	5.3	B1/500		G1/500
BVH (80°-90°)	35.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
2.5°	1072.3	1079.8	1070.4	1070.4	1038.8	1022.2	990.5	966.4	923.1	915.6
5°	1267.5	1276.9	1263.7	1258.0	1220.7	1186.5	1133.3	1081.0	1003.7	995.8
7.5°	1418.5	1430.6	1418.9	1412.9	1379.7	1341.3	1279.1	1206.0	1097.2	1081.7
10°	1541.7	1543.6	1539.9	1542.1	1516.1	1484.5	1420.8	1335.7	1199.6	1178.5
12.5°	1611.4	1620.1	1627.6	1641.2	1636.7	1617.1	1559.8	1458.1	1308.1	1281.0
15°	1644.2	1659.3	1676.3	1707.5	1732.8	1737.7	1694.0	1589.6	1418.5	1385.8
17.5°	1655.9	1670.2	1697.0	1742.2	1796.4	1833.0	1813.4	1717.3	1527.8	1490.1
20°	1715.1	1719.2	1735.4	1778.4	1837.1	1897.8	1912.5	1840.1	1635.9	1593.4
22.5°	1841.7	1833.4	1837.9	1857.5	1899.7	1958.5	1992.0	1948.7	1747.1	1698.1
25°	2050.8	2026.6	2002.5	1979.9	2001.4	2034.6	2072.6	2057.2	1863.5	1801.3
27.5°	2314.9	2285.5	2232.4	2158.1	2132.1	2143.8	2160.8	2157.8	1971.3	1908.3
30°	2574.8	2540.6	2477.3	2369.9	2301.3	2270.4	2257.6	2248.9	2088.4	2021.4
32.5°	2782.5	2755.3	2693.2	2573.0	2473.5	2420.8	2378.2	2347.3	2210.9	2143.8
35°	2964.1	2938.8	2867.6	2736.5	2628.4	2572.2	2516.5	2450.5	2338.2	2270.4
37.5°	3129.8	3104.6	3007.0	2870.6	2761.7	2722.9	2673.2	2561.3	2466.0	2401.9
40°	3234.6	3228.9	3137.7	2983.3	2870.2	2851.0	2834.4	2689.8	2607.6	2548.1
42.5°	3261.3	3273.8	3201.4	3074.4	2966.7	2951.2	2990.1	2835.2	2766.6	2709.7
45°	3196.9	3232.7	3185.2	3098.9	3035.3	3027.0	3127.9	2994.2	2942.6	2890.6
47.5°	3033.8	3094.4	3074.8	3062.8	3053.7	3089.5	3249.3	3163.0	3141.9	3096.7
50°	2704.5	2819.4	2853.7	2929.8	3017.2	3138.1	3359.7	3347.2	3374.7	3329.1
52.5°	2135.2	2293.4	2492.3	2683.0	2904.9	3121.9	3481.0	3611.7	3727.8	3702.9
55°	1762.5	1833.7	1986.7	2336.4	2687.1	3053.7	3535.6	3825.4	4078.2	4055.9
57.5°	1476.2	1539.9	1634.1	1926.1	2357.8	2898.9	3569.5	3955.7	4318.2	4315.9
60°	1169.1	1236.6	1333.0	1539.9	1973.1	2631.4	3562.0	4104.2	4624.5	4643.3
62.5°	822.5	896.7	1003.7	1196.6	1580.2	2284.7	3408.3	4211.5	4985.1	5036.3
65°	540.7	589.6	670.3	836.8	1177.4	1839.0	3114.8	4225.5	5370.9	5457.5
67.5°	379.0	397.9	445.3	535.8	776.1	1410.3	2647.2	4081.2	5628.2	5725.8
70°	295.8	305.2	329.3	365.5	487.5	948.3	2028.5	3705.9	5573.2	5674.9
72.5°	255.5	264.5	273.5	278.1	327.0	585.5	1374.1	3098.6	5055.1	5124.1
75°	231.7	234.0	241.5	240.0	249.4	379.8	793.1	2257.6	3988.5	3964.8
77.5°	194.8	197.8	210.2	208.4	221.5	259.6	411.8	1457.0	2585.8	2424.5
80°	165.0	166.5	180.1	177.8	192.5	188.0	210.2	742.6	1096.8	929.1
82.5°	57.3	70.8	137.5	141.7	146.9	113.8	121.3	302.9	334.9	256.6
85°	27.9	29.8	70.1	99.5	99.1	57.3	59.2	108.1	105.5	82.9
87.5°	4.5	5.7	8.3	38.8	30.9	15.1	20.3	21.1	21.9	18.8
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°
856.4	0°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
886.9	2.5°	865.8	847.0	807.4	770.9	742.2	714.7	699.3	686.1	678.6	677.1
928.4	5°	889.2	850.4	778.4	717.7	678.2	648.8	633.4	623.6	618.7	615.6
984.1	7.5°	922.7	865.8	763.3	694.4	652.9	631.8	623.9	622.4	622.0	622.4
1051.6	10°	969.1	891.1	761.8	688.7	654.1	642.4	642.0	642.4	643.9	644.3
1125.0	12.5°	1019.2	917.1	767.9	693.6	668.4	662.0	660.9	660.5	661.6	662.4
1199.3	15°	1073.8	951.3	778.0	704.2	684.2	677.4	676.3	674.0	673.7	673.3
1277.3	17.5°	1129.9	985.3	789.3	715.5	694.4	685.0	680.8	675.5	671.4	670.3
1357.9	20°	1186.8	1018.8	797.2	721.1	695.1	682.0	673.7	664.6	657.5	653.3
1439.3	22.5°	1247.5	1053.8	802.1	719.6	688.4	670.3	655.2	644.7	633.7	626.6
1521.4	25°	1306.6	1084.3	801.8	711.7	675.2	652.2	633.0	619.4	604.3	596.8
1606.2	27.5°	1363.5	1111.8	792.3	697.8	656.3	630.7	607.7	591.5	576.8	569.7
1691.7	30°	1422.3	1134.8	777.7	677.4	634.1	605.8	580.6	566.7	553.5	546.7
1782.1	32.5°	1480.7	1155.9	756.9	652.2	608.5	581.4	556.5	543.7	535.8	535.8
1879.3	35°	1542.5	1170.6	729.4	622.8	581.4	555.4	535.8	528.2	527.5	523.0
1982.2	37.5°	1607.7	1180.0	695.9	592.7	554.6	530.1	524.1	515.0	507.5	497.7
2095.2	40°	1676.3	1189.5	655.6	561.4	526.3	512.8	510.1	498.1	476.6	452.5
2223.3	42.5°	1759.5	1195.9	613.8	530.1	496.6	492.1	495.8	475.1	440.8	422.7
2377.8	45°	1856.0	1206.4	575.3	499.2	466.1	466.1	481.9	454.8	426.5	415.2
2554.1	47.5°	1981.1	1230.9	539.5	465.3	437.8	445.3	451.0	430.3	414.4	400.5
2768.9	50°	2161.9	1289.7	502.6	431.0	416.3	431.4	423.5	411.4	393.0	381.7
3110.2	52.5°	2386.5	1324.3	469.8	400.1	397.9	412.9	401.6	390.3	376.4	361.3
3369.1	55°	2539.4	1330.8	442.3	377.5	385.4	383.9	379.8	369.6	362.1	342.1
3624.5	57.5°	2710.5	1343.6	419.7	364.0	377.5	360.9	359.4	350.8	341.0	327.4
3936.1	60°	2915.1	1363.5	400.1	358.7	370.7	345.9	338.3	334.9	325.2	318.4
4311.0	62.5°	3138.1	1381.6	380.2	359.4	362.8	331.2	319.9	318.7	312.7	310.5
4662.9	65°	3290.3	1332.3	355.3	358.7	350.4	316.1	301.8	301.4	296.5	295.8
4815.5	67.5°	3237.2	1175.9	321.8	348.1	337.6	301.0	285.2	283.7	277.3	277.7
4656.1	70°	2971.2	952.9	275.4	322.1	321.8	287.5	267.9	263.0	254.3	255.8
4048.4	72.5°	2472.4	706.1	213.3	278.8	296.5	275.0	247.9	240.0	229.1	230.6
2988.5	75°	1785.5	480.0	155.2	212.1	258.1	260.3	228.3	214.8	201.6	203.8
1663.4	77.5°	913.7	272.0	114.2	146.2	202.7	236.6	210.6	192.5	189.5	210.6
479.6	80°	298.0	136.4	79.1	102.5	133.0	193.7	184.6	163.9	163.1	168.0
100.6	82.5°	88.9	57.6	50.9	67.4	73.5	148.4	159.4	124.0	106.6	112.3
33.5	85°	30.5	27.9	29.0	33.5	35.0	87.0	111.5	82.1	77.6	85.5
7.5	87.5°	7.2	9.8	8.3	7.5	7.5	21.1	43.3	34.3	47.5	31.6
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>
856.4
677.1
615.3
623.6
644.7
662.7
672.9
671.4
654.8
626.9
596.8
569.3
546.3
536.1
521.8
496.2
449.1
423.1
417.1
400.1
380.5
358.3
342.5
322.9
320.3
310.5
295.4
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230.2
204.6
207.6
144.3
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84.4
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