

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: P945431

Luminaire Tested: **GALN-SB1B-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945431
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-SB1B-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4562 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

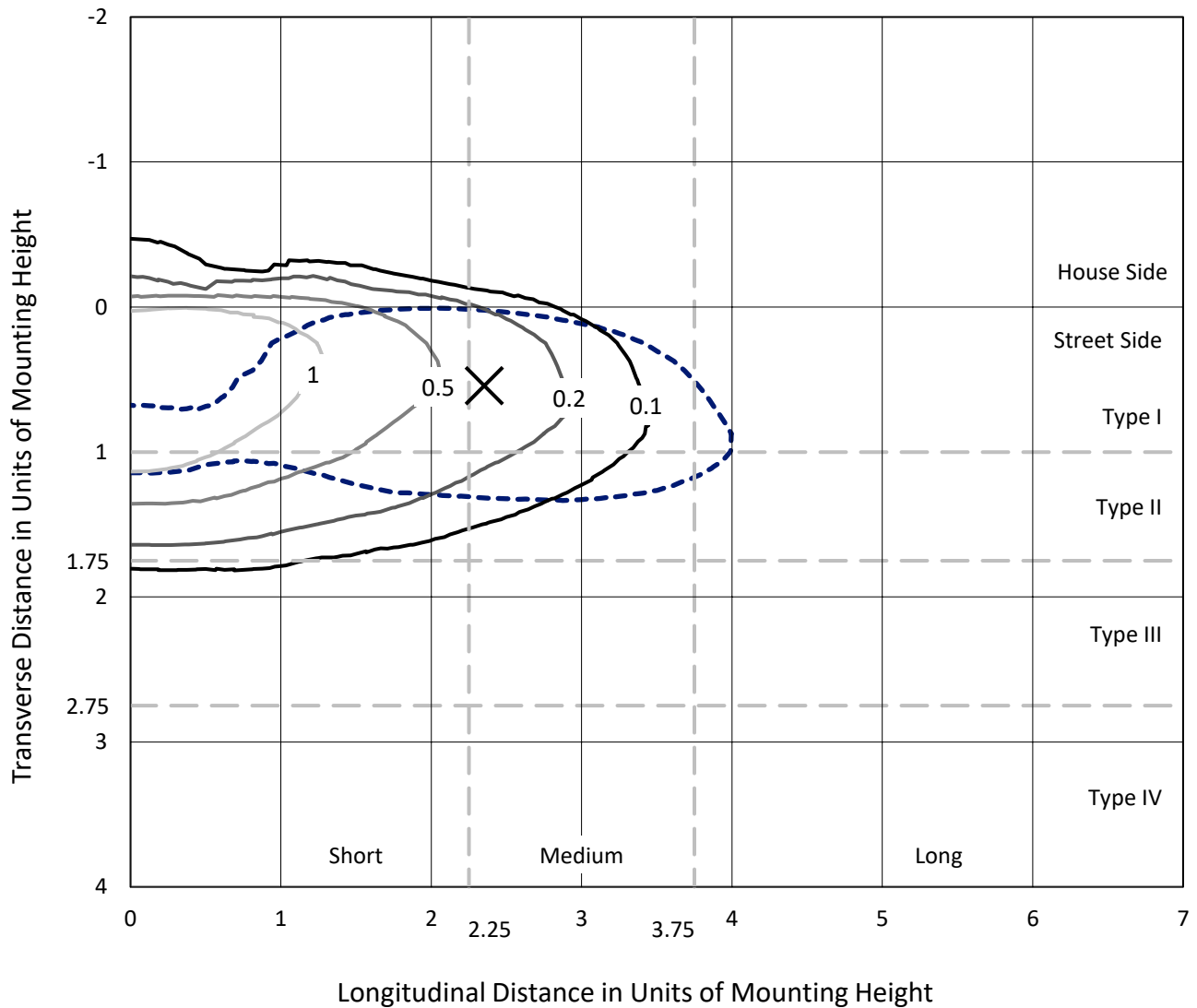
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

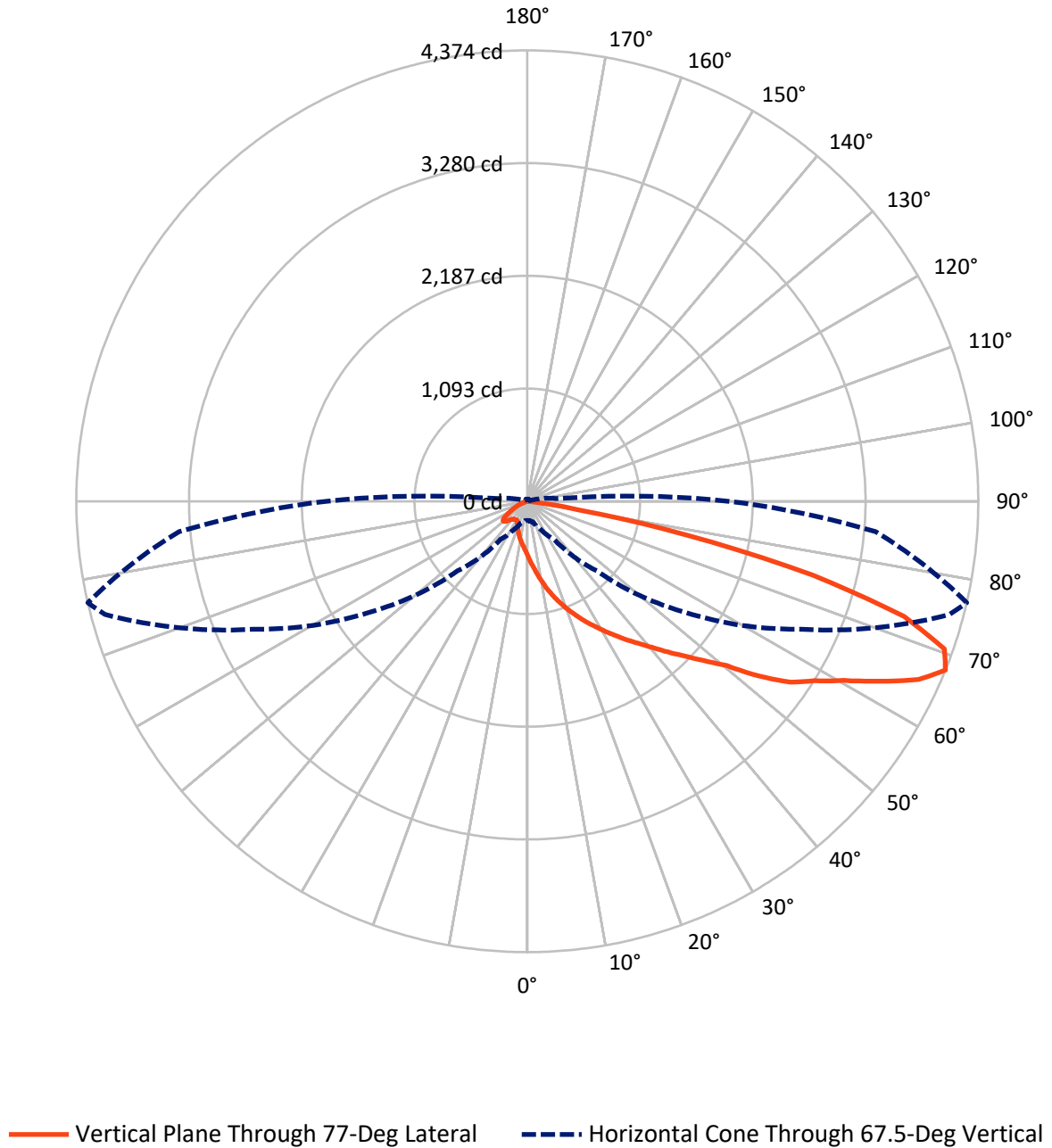
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	335.6	0.0	335.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4226.4	0.0	4226.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	4562.0	0.0	4562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.2
10°-20°	188.0	4.1
20°-30°	362.8	8.0
30°-40°	629.9	13.8
40°-50°	914.6	20.0
50°-60°	1050.3	23.0
60°-70°	911.9	20.0
70°-80°	429.5	9.4
80°-90°	21.2	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°	4562.0	100.0
0°-180°	4562.0	100.0

Coefficient of Utilization



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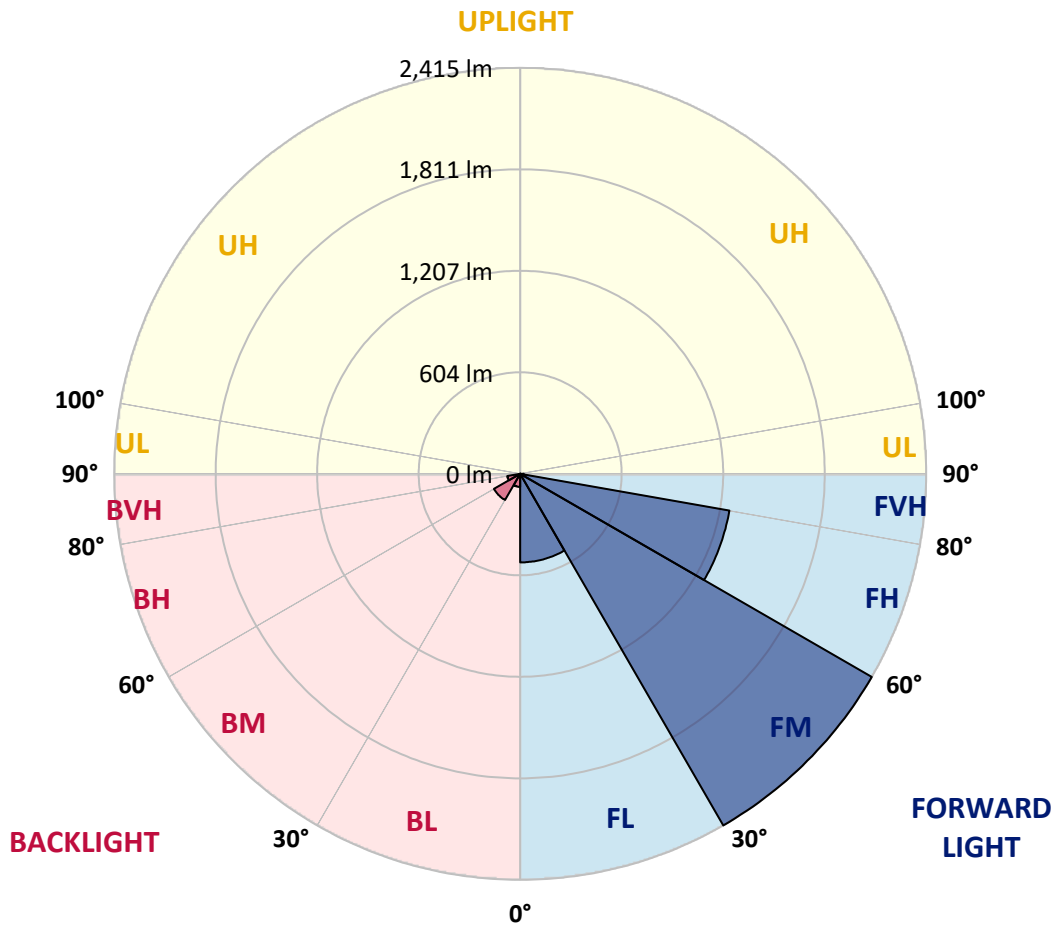
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.9	11.5			
FM (30°-60°)	2415.0	52.9			
FH (60°-80°)	1263.7	27.7			G1/1800
FVH (80°-90°)	20.8	0.5			G1/100
BL (0°-30°)	77.7	1.7	B0/110		
BM (30°-60°)	179.8	3.9	B0/220		
BH (60°-80°)	77.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1
2.5°	728.3	732.9	726.4	713.9	695.2	683.0	653.3	625.2	594.1	584.1
5°	887.8	891.8	884.4	870.8	845.9	822.1	783.0	724.4	663.5	643.9
7.5°	1006.0	1008.2	1005.4	992.9	969.1	942.2	898.6	829.2	738.8	717.3
10°	1090.9	1098.3	1097.5	1092.6	1076.8	1055.0	1008.5	929.5	823.2	795.5
12.5°	1147.3	1155.5	1160.3	1171.1	1170.3	1156.4	1115.6	1032.0	907.4	874.8
15°	1163.7	1172.5	1190.9	1215.9	1238.0	1245.1	1216.4	1132.6	1000.0	958.4
17.5°	1154.4	1168.0	1190.1	1229.5	1277.9	1309.9	1306.8	1229.8	1084.1	1036.6
20°	1175.1	1188.1	1205.4	1238.5	1294.9	1353.0	1376.2	1322.7	1167.7	1117.9
22.5°	1289.5	1287.3	1289.0	1294.3	1328.1	1385.6	1433.4	1407.1	1250.4	1199.4
25°	1470.8	1460.6	1443.4	1414.2	1405.7	1433.4	1483.3	1481.9	1337.7	1283.0
27.5°	1678.8	1677.1	1636.6	1566.3	1526.6	1515.9	1539.7	1554.7	1424.1	1365.7
30°	1877.9	1882.4	1827.8	1749.6	1676.8	1634.6	1613.0	1623.8	1511.9	1455.0
32.5°	2051.3	2056.1	1996.6	1905.1	1815.0	1764.0	1718.7	1692.1	1607.7	1545.6
35°	2197.7	2202.6	2134.3	2033.2	1937.1	1890.9	1839.7	1766.9	1704.0	1646.2
37.5°	2328.6	2327.2	2235.7	2133.7	2039.4	2002.8	1975.9	1858.9	1803.1	1747.3
40°	2406.0	2411.9	2333.7	2221.3	2129.8	2103.1	2101.4	1973.1	1917.6	1863.5
42.5°	2428.6	2439.1	2382.5	2290.1	2207.1	2178.2	2222.7	2096.6	2050.7	1998.0
45°	2387.8	2398.0	2372.3	2308.2	2259.8	2241.1	2326.9	2224.7	2192.9	2140.8
47.5°	2268.9	2281.6	2287.8	2274.2	2273.7	2292.6	2420.4	2359.5	2361.8	2308.5
50°	2038.5	2060.1	2117.3	2165.5	2240.0	2333.4	2511.3	2505.7	2552.1	2506.2
52.5°	1619.8	1650.4	1847.6	1979.3	2146.8	2325.8	2611.3	2740.2	2886.1	2819.0
55°	1301.7	1301.7	1462.0	1708.5	1964.9	2275.4	2655.0	2892.7	3113.6	3097.8
57.5°	1061.2	1073.9	1176.2	1394.1	1701.7	2155.3	2681.9	2988.4	3296.9	3285.3
60°	655.0	682.4	875.6	1090.7	1402.3	1941.4	2664.9	3085.3	3519.3	3528.6
62.5°	368.8	379.0	465.2	784.7	1090.4	1653.8	2534.9	3139.4	3803.7	3843.4
65°	254.7	259.8	292.9	488.4	755.8	1316.7	2280.8	3105.7	4088.7	4168.9
67.5°	185.0	187.5	208.2	298.3	448.4	954.7	1882.4	2935.7	4239.7	4373.7
70°	142.2	143.9	158.9	196.0	264.9	589.2	1367.1	2597.8	4130.3	4290.4
72.5°	115.6	117.3	128.9	145.0	175.6	348.4	828.6	2109.6	3647.6	3820.4
75°	97.5	99.7	110.2	120.7	137.7	223.8	388.7	1469.1	2743.1	2856.4
77.5°	54.1	49.9	89.5	100.0	116.1	141.6	181.9	864.6	1536.3	1567.7
80°	33.7	34.8	71.1	80.5	89.2	71.4	83.3	332.9	532.6	506.0
82.5°	2.0	4.5	54.7	58.1	61.2	30.6	31.4	113.0	128.3	117.8
85°	0.0	0.0	24.9	20.1	21.2	8.8	9.1	26.3	17.3	18.7
87.5°	0.0	0.0	0.0	0.6	0.0	0.8	1.7	2.3	0.8	1.1
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°
526.1	0°	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1
553.0	2.5°	533.1	513.3	473.1	433.7	401.7	372.0	350.7	330.6	320.4	319.8
588.7	5°	549.3	507.7	427.2	356.1	298.9	253.0	223.2	202.0	191.2	187.5
632.6	7.5°	572.0	509.4	387.0	288.1	220.7	181.3	164.3	157.5	155.2	152.7
682.2	10°	600.6	513.3	351.0	232.0	173.9	154.1	147.3	144.5	142.8	141.1
738.0	12.5°	632.6	517.0	315.3	192.6	153.0	142.8	138.0	134.6	132.3	130.3
795.2	15°	663.7	519.3	278.2	165.2	142.2	134.0	128.9	125.2	122.1	119.8
851.3	17.5°	694.6	522.4	243.3	148.7	133.4	125.2	120.1	115.6	113.0	110.5
910.2	20°	728.9	521.8	210.5	137.1	124.6	116.4	111.0	106.8	104.2	101.4
972.5	22.5°	760.6	519.0	181.6	127.2	115.6	107.6	101.7	97.5	94.9	92.6
1036.3	25°	797.2	516.7	157.5	118.1	107.1	99.2	92.6	88.7	85.8	83.9
1100.3	27.5°	832.3	513.3	139.9	109.9	98.9	91.2	85.0	80.5	77.9	76.5
1166.3	30°	866.9	512.5	133.4	102.0	91.5	83.9	77.6	73.4	71.4	70.8
1238.8	32.5°	908.5	514.7	136.3	99.2	84.7	77.1	71.1	68.0	66.0	66.0
1319.6	35°	953.0	514.2	140.5	101.7	80.2	70.3	65.7	63.7	61.8	61.8
1409.1	37.5°	1008.8	515.0	143.9	105.9	78.5	64.6	62.0	59.5	58.4	58.4
1507.1	40°	1092.1	543.1	142.2	109.6	77.9	60.6	55.5	54.7	53.8	53.8
1617.9	42.5°	1194.1	604.0	144.5	109.9	77.6	57.8	51.0	52.7	50.7	50.4
1742.8	45°	1305.7	670.5	158.9	104.0	77.3	56.4	48.7	50.7	47.6	47.6
1887.5	47.5°	1416.4	736.5	173.7	95.5	76.5	56.1	46.7	45.6	44.8	45.0
2076.2	50°	1569.1	790.4	179.3	83.9	74.5	55.5	43.1	43.3	42.8	43.3
2342.2	52.5°	1735.4	801.7	172.5	70.8	68.8	53.8	40.5	41.6	41.4	41.9
2529.5	55°	1839.1	789.5	142.5	58.9	60.1	47.0	38.0	40.2	40.2	40.2
2712.5	57.5°	1946.2	737.7	101.1	47.9	49.9	38.5	35.7	38.8	38.5	38.2
2932.9	60°	2023.2	653.8	66.6	39.4	39.7	31.7	33.1	36.5	36.3	34.8
3160.1	62.5°	2080.7	561.2	42.8	33.4	30.3	28.6	30.3	33.1	32.0	28.9
3352.7	65°	2074.2	432.9	32.9	28.6	24.9	24.9	26.3	28.9	25.5	20.4
3389.5	67.5°	1953.3	292.9	27.2	24.1	21.0	20.7	21.8	24.1	21.8	17.3
3200.9	70°	1737.1	191.5	21.8	18.7	16.7	15.3	17.6	20.7	18.4	13.9
2724.9	72.5°	1409.9	116.7	16.4	13.6	12.2	9.9	13.9	17.0	14.7	10.2
1894.9	75°	912.2	59.5	11.3	8.8	6.5	5.9	10.2	12.7	10.2	6.2
840.8	77.5°	349.0	24.9	6.2	4.0	3.4	2.8	5.7	7.6	4.2	1.4
162.9	80°	67.1	10.5	3.1	2.0	1.7	1.1	0.8	0.6	0.0	0.0
28.9	82.5°	11.6	3.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	87.5°	1.4	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>
526.1
319.3
187.0
152.1
140.5
129.7
119.5
110.2
101.1
92.4
83.6
76.5
70.5
66.0
61.8
58.4
53.8
50.1
47.6
45.0
43.3
41.9
40.2
38.2
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