

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: P945368

Luminaire Tested: **GALN-SB1B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945368
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 4285 lumens
Efficiency: N/A
Efficacy: 107.7 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

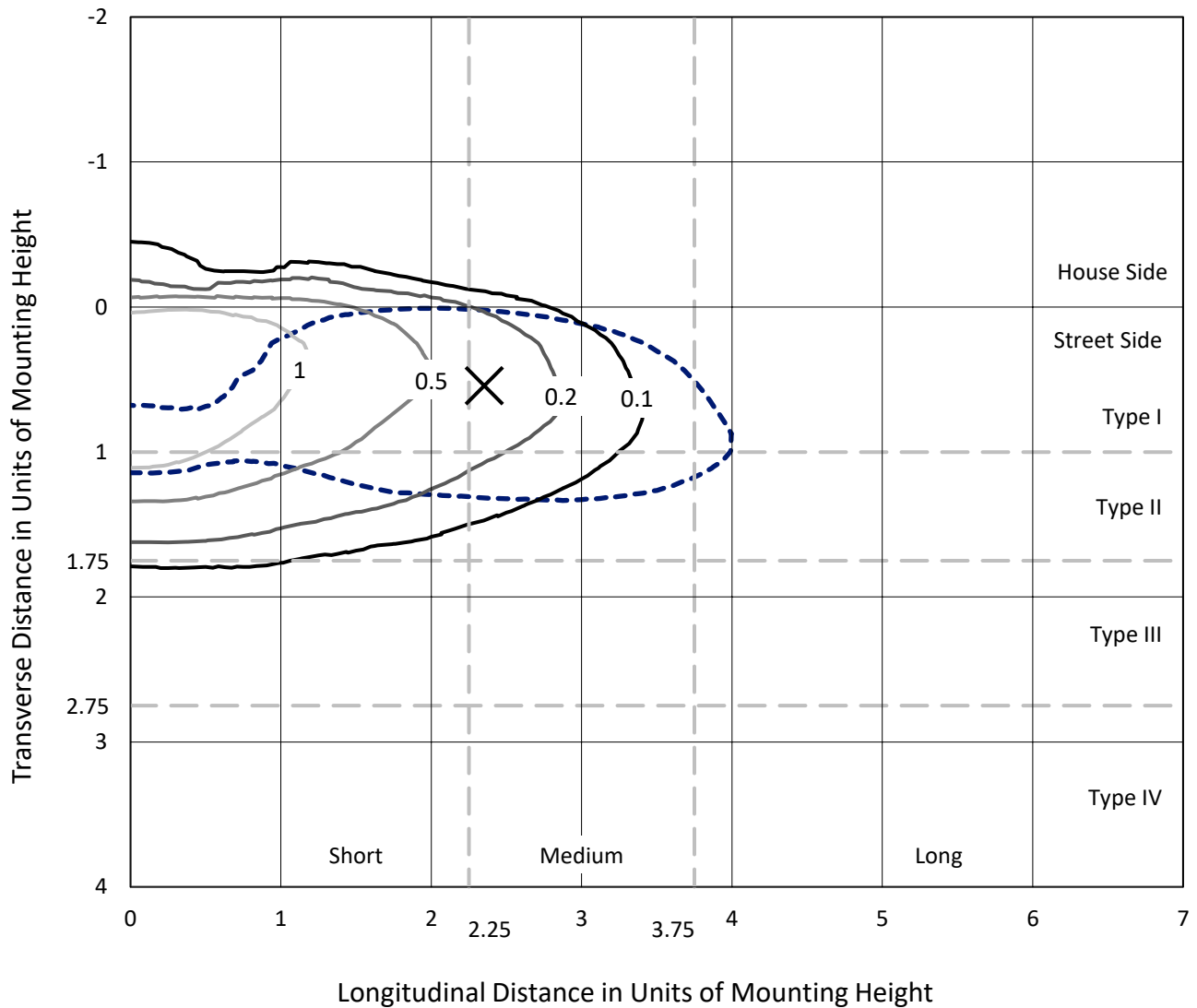
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

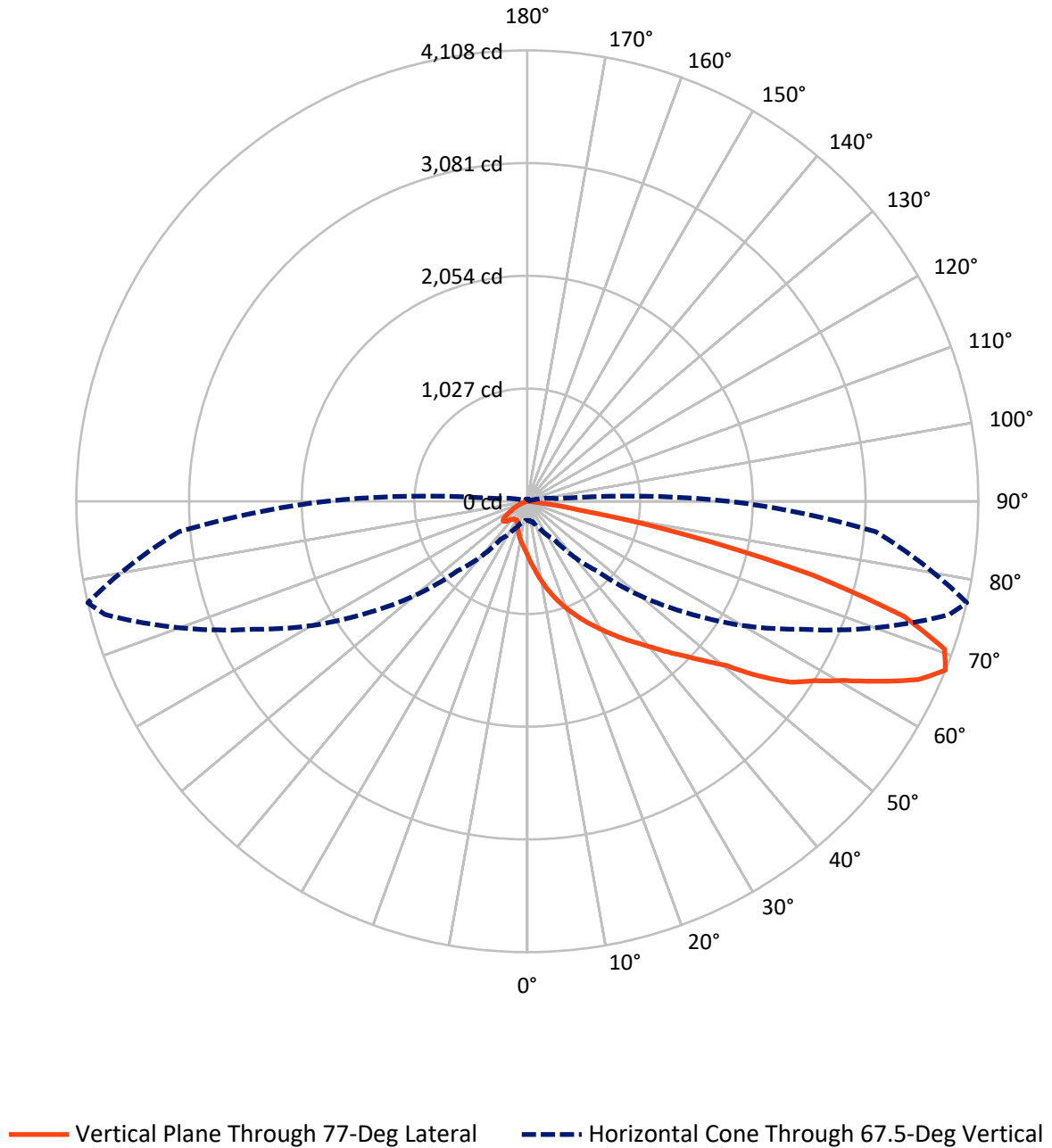
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	315.2	0.0	315.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3969.7	0.0	3969.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.2
10°-20°	176.6	4.1
20°-30°	340.8	8.0
30°-40°	591.7	13.8
40°-50°	859.1	20.0
50°-60°	986.5	23.0
60°-70°	856.5	20.0
70°-80°	403.4	9.4
80°-90°	19.9	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°	4285.0	100.0
0°-180°	4285.0	100.0

Coefficient of Utilization



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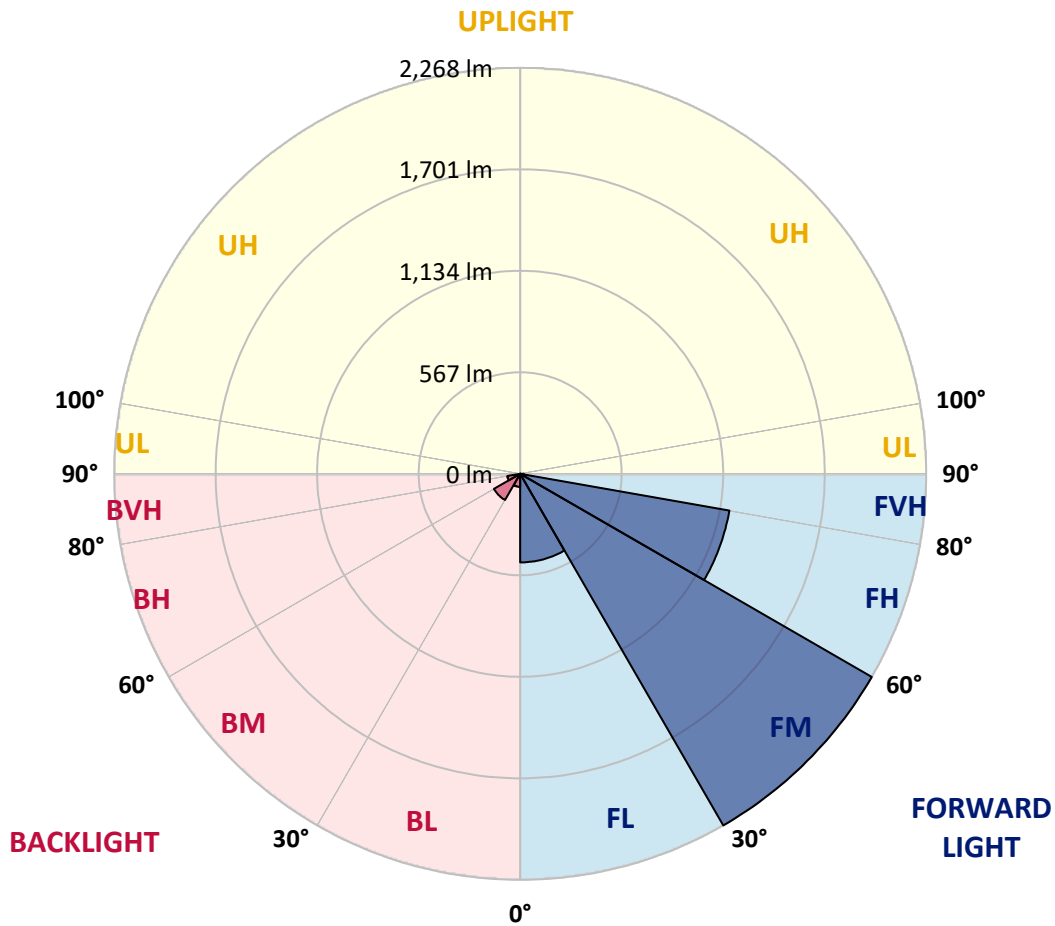
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.9	11.5			
FM (30°-60°)	2268.4	52.9			
FH (60°-80°)	1186.9	27.7			G1/1800
FVH (80°-90°)	19.6	0.5			G1/100
BL (0°-30°)	73.0	1.7	B0/110		
BM (30°-60°)	168.9	3.9	B0/220		
BH (60°-80°)	73.0	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°	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1
2.5°	684.1	688.4	682.2	670.5	653.0	641.5	613.6	587.3	558.0	548.7
5°	833.9	837.6	830.7	818.0	794.5	772.2	735.5	680.4	623.2	604.8
7.5°	944.9	947.0	944.3	932.6	910.3	885.0	844.0	778.8	694.0	673.7
10°	1024.7	1031.6	1030.8	1026.3	1011.4	990.9	947.3	873.0	773.2	747.2
12.5°	1077.7	1085.4	1089.9	1100.0	1099.2	1086.2	1047.9	969.4	852.3	821.7
15°	1093.1	1101.3	1118.6	1142.0	1162.8	1169.5	1142.6	1063.8	939.3	900.2
17.5°	1084.3	1097.1	1117.8	1154.8	1200.3	1230.4	1227.5	1155.1	1018.3	973.6
20°	1103.7	1116.0	1132.2	1163.3	1216.3	1270.8	1292.7	1242.4	1096.8	1050.0
22.5°	1211.2	1209.1	1210.7	1215.8	1247.4	1301.4	1346.4	1321.7	1174.5	1126.6
25°	1381.5	1371.9	1355.7	1328.3	1320.3	1346.4	1393.2	1391.9	1256.5	1205.1
27.5°	1576.8	1575.2	1537.2	1471.2	1433.9	1423.8	1446.2	1460.3	1337.6	1282.8
30°	1763.9	1768.1	1716.8	1643.4	1575.0	1535.3	1515.1	1525.2	1420.1	1366.6
32.5°	1926.7	1931.3	1875.4	1789.4	1704.8	1656.9	1614.3	1589.3	1510.0	1451.8
35°	2064.3	2068.8	2004.7	1909.7	1819.5	1776.1	1728.0	1659.6	1600.5	1546.2
37.5°	2187.2	2185.9	2100.0	2004.2	1915.6	1881.2	1856.0	1746.1	1693.6	1641.2
40°	2259.9	2265.5	2192.0	2086.4	2000.4	1975.4	1973.8	1853.3	1801.1	1750.3
42.5°	2281.2	2291.0	2237.8	2151.0	2073.1	2045.9	2087.7	1969.3	1926.2	1876.7
45°	2242.8	2252.4	2228.2	2168.1	2122.6	2105.0	2185.6	2089.6	2059.8	2010.8
47.5°	2131.1	2143.1	2148.9	2136.1	2135.6	2153.4	2273.4	2216.2	2218.4	2168.3
50°	1914.8	1935.0	1988.7	2034.0	2103.9	2191.8	2358.9	2353.5	2397.2	2354.1
52.5°	1521.5	1550.2	1735.4	1859.1	2016.4	2184.6	2452.8	2573.9	2710.9	2647.8
55°	1222.7	1222.7	1373.3	1604.8	1845.6	2137.2	2493.8	2717.0	2924.6	2909.7
57.5°	996.8	1008.7	1104.8	1309.4	1598.4	2024.4	2519.0	2807.0	3096.7	3085.8
60°	615.2	641.0	822.5	1024.4	1317.1	1823.5	2503.1	2898.0	3305.6	3314.4
62.5°	346.4	356.0	436.9	737.1	1024.2	1553.4	2380.9	2948.8	3572.7	3610.0
65°	239.2	244.0	275.1	458.7	709.9	1236.8	2142.3	2917.1	3840.4	3915.7
67.5°	173.8	176.1	195.6	280.2	421.2	896.7	1768.1	2757.5	3982.3	4108.1
70°	133.6	135.2	149.3	184.1	248.8	553.5	1284.1	2440.0	3879.5	4029.9
72.5°	108.6	110.2	121.1	136.2	165.0	327.3	778.3	1981.5	3426.1	3588.4
75°	91.5	93.7	103.5	113.4	129.3	210.2	365.1	1379.9	2576.5	2683.0
77.5°	50.8	46.8	84.1	93.9	109.1	133.0	170.8	812.1	1443.0	1472.5
80°	31.7	32.7	66.8	75.6	83.8	67.1	78.2	312.7	500.2	475.2
82.5°	1.9	4.3	51.4	54.5	57.5	28.7	29.5	106.2	120.5	110.7
85°	0.0	0.0	23.4	18.9	20.0	8.2	8.5	24.7	16.2	17.6
87.5°	0.0	0.0	0.0	0.5	0.0	0.8	1.6	2.1	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°
494.1	0°	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1	494.1
519.4	2.5°	500.8	482.1	444.4	407.4	377.3	349.4	329.4	310.5	300.9	300.4
552.9	5°	515.9	476.8	401.3	334.5	280.7	237.6	209.7	189.7	179.6	176.1
594.2	7.5°	537.2	478.4	363.5	270.6	207.3	170.3	154.3	147.9	145.8	143.4
640.7	10°	564.1	482.1	329.7	217.9	163.4	144.8	138.4	135.7	134.1	132.5
693.2	12.5°	594.2	485.6	296.2	180.9	143.7	134.1	129.6	126.4	124.3	122.4
746.9	15°	623.4	487.7	261.3	155.1	133.6	125.9	121.1	117.6	114.7	112.6
799.6	17.5°	652.4	490.7	228.6	139.7	125.3	117.6	112.8	108.6	106.2	103.8
854.9	20°	684.6	490.1	197.7	128.8	117.1	109.4	104.3	100.3	97.9	95.3
913.5	22.5°	714.4	487.5	170.6	119.5	108.6	101.1	95.5	91.5	89.1	87.0
973.3	25°	748.8	485.3	147.9	111.0	100.6	93.1	87.0	83.3	80.6	78.8
1033.5	27.5°	781.8	482.1	131.4	103.2	92.9	85.7	79.8	75.6	73.2	71.8
1095.5	30°	814.2	481.4	125.3	95.8	85.9	78.8	72.9	68.9	67.1	66.5
1163.6	32.5°	853.3	483.5	128.0	93.1	79.6	72.4	66.8	63.9	62.0	62.0
1239.4	35°	895.1	482.9	132.0	95.5	75.3	66.0	61.7	59.9	58.0	58.0
1323.5	37.5°	947.5	483.7	135.2	99.5	73.7	60.7	58.3	55.9	54.8	54.8
1415.6	40°	1025.8	510.1	133.6	103.0	73.2	56.9	52.2	51.4	50.6	50.6
1519.6	42.5°	1121.6	567.3	135.7	103.2	72.9	54.3	47.9	49.5	47.6	47.4
1637.0	45°	1226.4	629.8	149.3	97.7	72.6	53.0	45.8	47.6	44.7	44.7
1772.9	47.5°	1330.4	691.8	163.1	89.7	71.8	52.7	43.9	42.8	42.0	42.3
1950.2	50°	1473.9	742.4	168.4	78.8	70.0	52.2	40.4	40.7	40.2	40.7
2200.0	52.5°	1630.0	753.0	162.0	66.5	64.7	50.6	38.1	39.1	38.8	39.4
2375.9	55°	1727.4	741.6	133.8	55.3	56.4	44.2	35.7	37.8	37.8	37.8
2547.8	57.5°	1828.0	692.9	95.0	45.0	46.8	36.2	33.5	36.5	36.2	35.9
2754.8	60°	1900.4	614.1	62.5	37.0	37.3	29.8	31.1	34.3	34.1	32.7
2968.2	62.5°	1954.4	527.1	40.2	31.4	28.5	26.9	28.5	31.1	30.1	27.1
3149.1	65°	1948.3	406.6	30.9	26.9	23.4	23.4	24.7	27.1	23.9	19.2
3183.7	67.5°	1834.7	275.1	25.5	22.6	19.7	19.4	20.5	22.6	20.5	16.2
3006.5	70°	1631.6	179.9	20.5	17.6	15.7	14.4	16.5	19.4	17.3	13.0
2559.5	72.5°	1324.3	109.6	15.4	12.8	11.4	9.3	13.0	16.0	13.8	9.6
1779.9	75°	856.8	55.9	10.6	8.2	6.1	5.6	9.6	12.0	9.6	5.9
789.7	77.5°	327.8	23.4	5.9	3.7	3.2	2.7	5.3	7.2	4.0	1.3
153.0	80°	63.1	9.8	2.9	1.9	1.6	1.1	0.8	0.5	0.0	0.0
27.1	82.5°	10.9	3.2	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5.3	85°	3.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	87.5°	1.3	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>
494.1
299.9
175.6
142.9
132.0
121.9
112.3
103.5
95.0
86.7
78.5
71.8
66.3
62.0
58.0
54.8
50.6
47.1
44.7
42.3
40.7
39.4
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