

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: P946250

Luminaire Tested: **GALN-SB1D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946250
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-SB1D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA 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: 5996 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

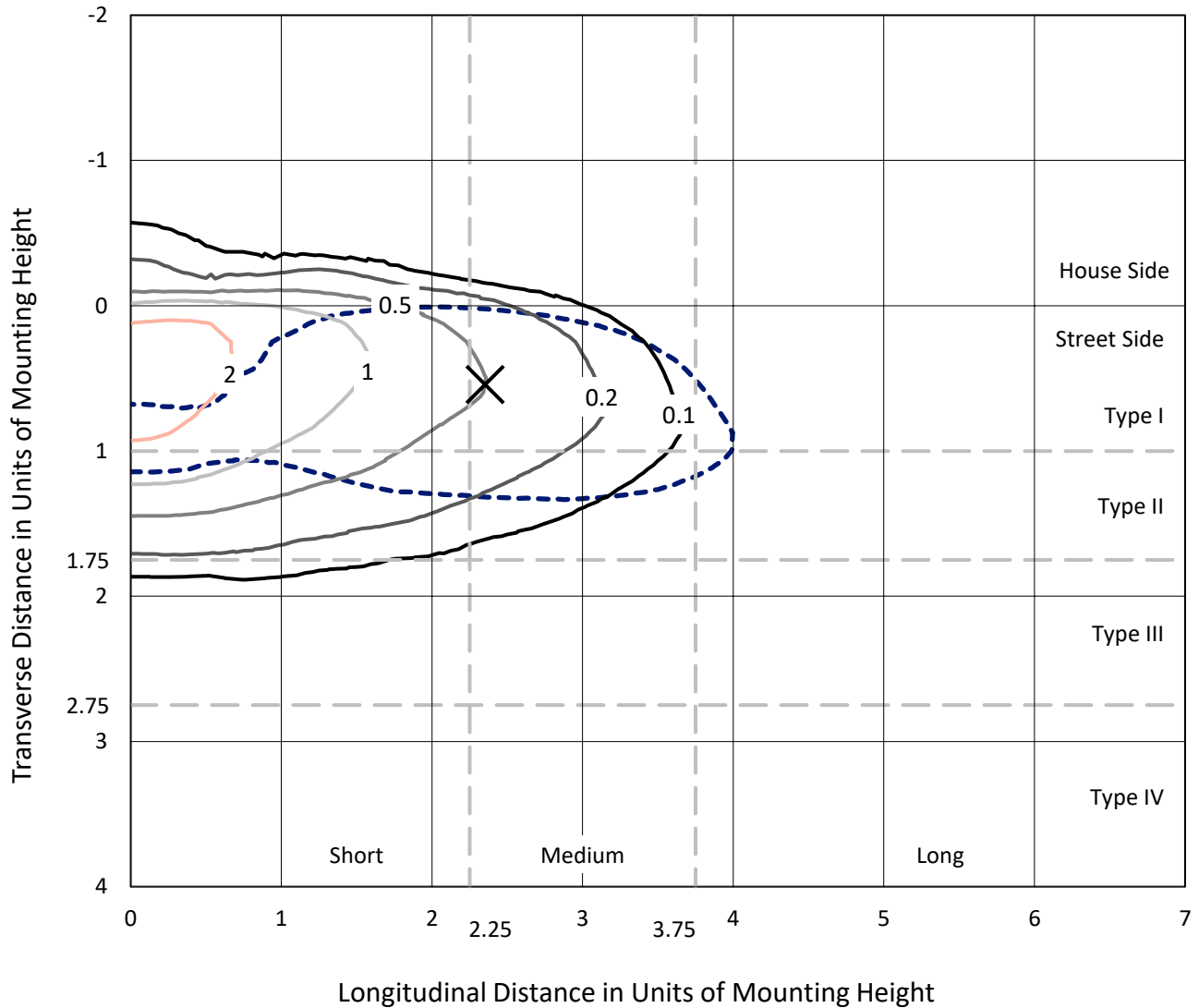
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

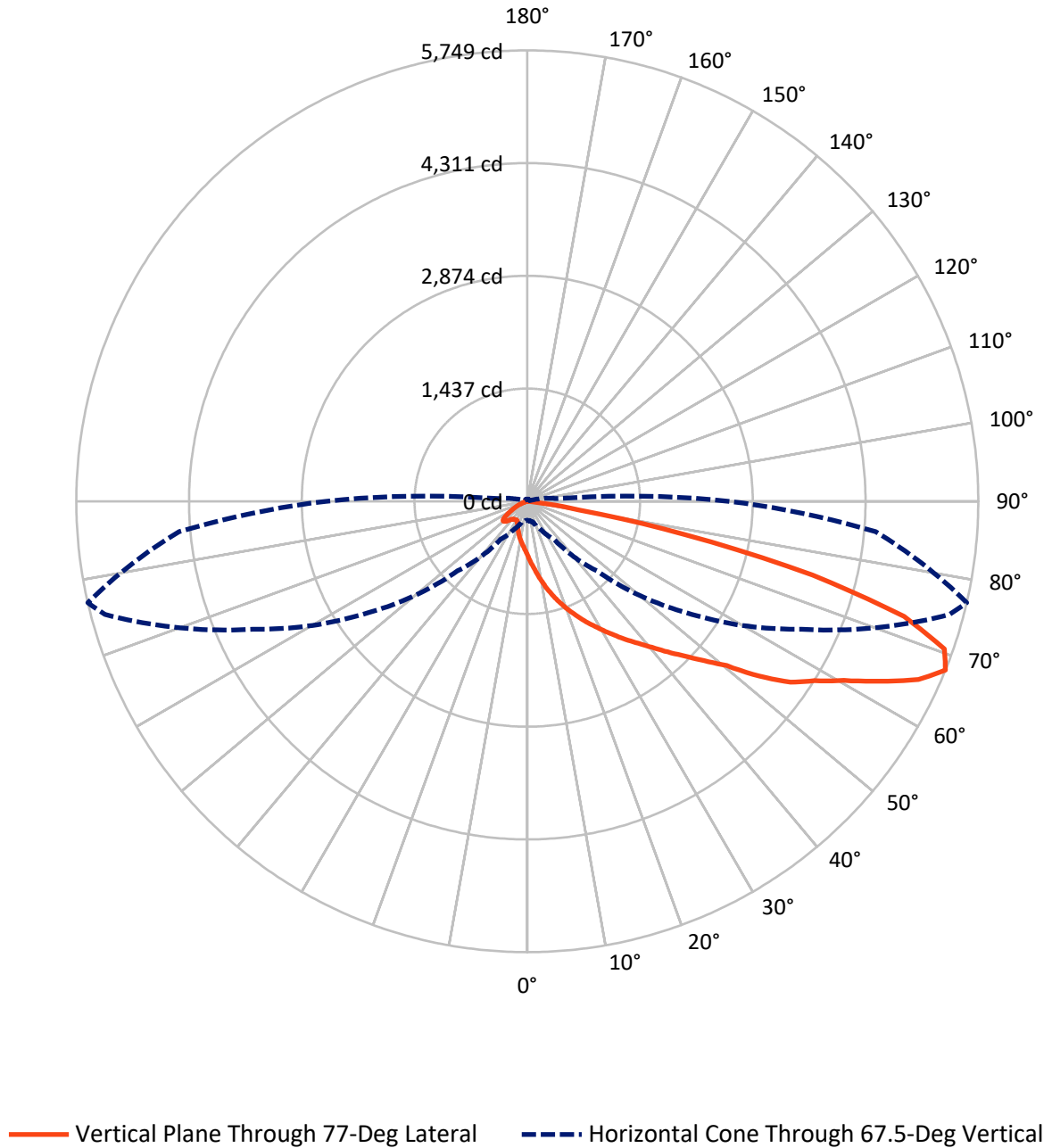
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	441.1	0.0	441.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5554.9	0.0	5554.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	5996.0	0.0	5996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.2
10°-20°	247.1	4.1
20°-30°	476.9	8.0
30°-40°	827.9	13.8
40°-50°	1202.1	20.0
50°-60°	1380.5	23.0
60°-70°	1198.5	20.0
70°-80°	564.5	9.4
80°-90°	27.9	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°	5996.0	100.0
0°-180°	5996.0	100.0

Coefficient of Utilization



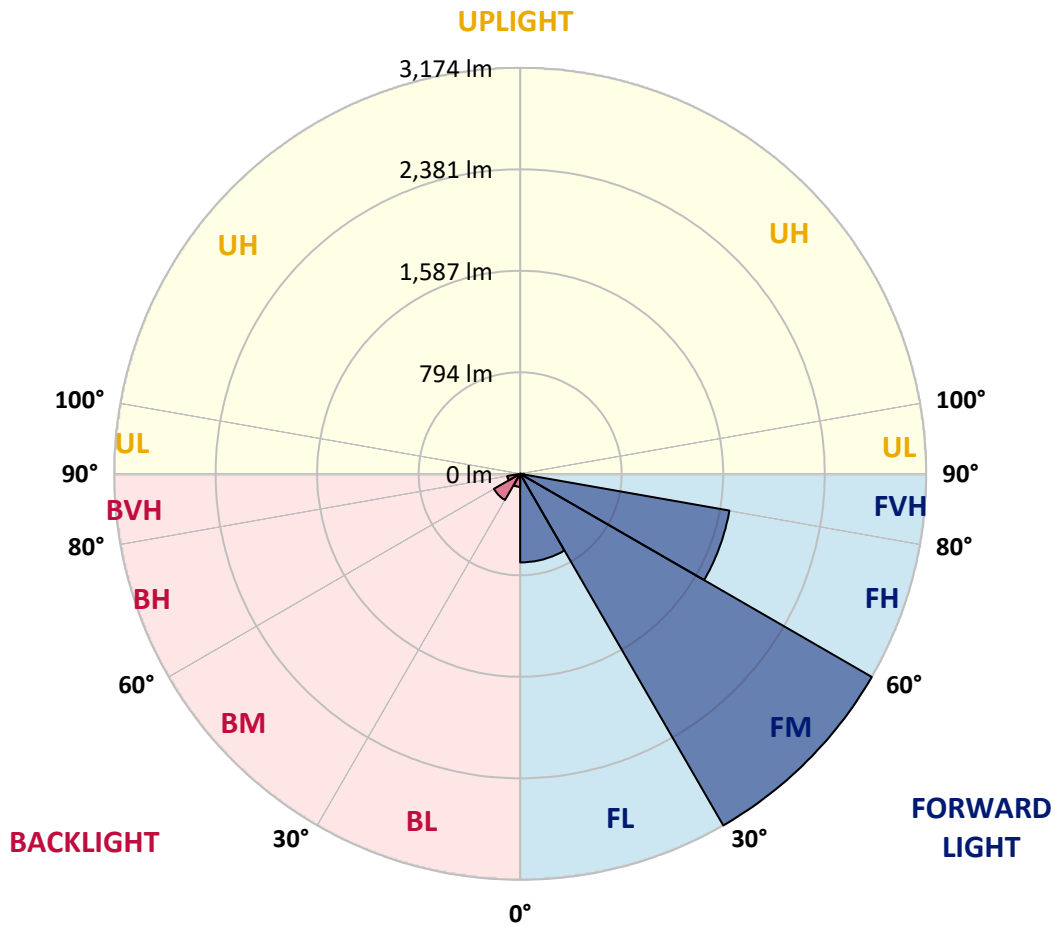
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.5	11.5			
FM (30°-60°)	3174.1	52.9			
FH (60°-80°)	1660.9	27.7			G1/1800
FVH (80°-90°)	27.4	0.5			G1/100
BL (0°-30°)	102.1	1.7	B0/110		
BM (30°-60°)	236.4	3.9	B1/1000		
BH (60°-80°)	102.1	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	957.3	963.2	954.7	938.3	913.7	897.7	858.6	821.7	780.8	767.8
5°	1166.9	1172.1	1162.4	1144.6	1111.8	1080.5	1029.1	952.1	872.0	846.3
7.5°	1322.2	1325.1	1321.4	1305.0	1273.8	1238.4	1181.0	1089.8	971.1	942.8
10°	1433.9	1443.5	1442.4	1436.1	1415.2	1386.6	1325.5	1221.6	1082.0	1045.5
12.5°	1508.0	1518.8	1525.1	1539.2	1538.1	1519.9	1466.3	1356.4	1192.6	1149.8
15°	1529.6	1541.1	1565.3	1598.1	1627.1	1636.4	1598.8	1488.6	1314.3	1259.6
17.5°	1517.3	1535.1	1564.2	1615.9	1679.6	1721.7	1717.6	1616.3	1424.9	1362.4
20°	1544.4	1561.6	1584.3	1627.9	1701.9	1778.3	1808.8	1738.4	1534.8	1469.2
22.5°	1694.9	1691.9	1694.1	1701.2	1745.5	1821.1	1884.0	1849.4	1643.5	1576.5
25°	1933.2	1919.8	1897.0	1858.7	1847.5	1884.0	1949.5	1947.7	1758.2	1686.3
27.5°	2206.5	2204.2	2151.0	2058.6	2006.5	1992.4	2023.6	2043.4	1871.7	1795.0
30°	2468.2	2474.2	2402.3	2299.5	2203.9	2148.4	2120.1	2134.2	1987.2	1912.3
32.5°	2696.1	2702.4	2624.2	2504.0	2385.6	2318.5	2259.0	2224.0	2113.0	2031.5
35°	2888.6	2894.9	2805.2	2672.3	2546.0	2485.3	2417.9	2322.3	2239.6	2163.6
37.5°	3060.6	3058.7	2938.5	2804.4	2680.4	2632.4	2597.0	2443.3	2369.9	2296.6
40°	3162.2	3170.1	3067.3	2919.5	2799.2	2764.2	2762.0	2593.3	2520.3	2449.2
42.5°	3192.0	3205.8	3131.3	3010.0	2900.9	2862.9	2921.3	2755.7	2695.3	2626.1
45°	3138.4	3151.8	3117.9	3033.8	2970.1	2945.5	3058.4	2924.0	2882.2	2813.7
47.5°	2982.0	2998.8	3007.0	2989.1	2988.4	3013.3	3181.2	3101.2	3104.2	3034.2
50°	2679.3	2707.6	2782.8	2846.1	2944.1	3066.9	3300.8	3293.3	3354.4	3294.1
52.5°	2129.0	2169.2	2428.4	2601.5	2821.6	3056.9	3432.2	3601.6	3793.4	3705.1
55°	1710.9	1710.9	1921.6	2245.6	2582.5	2990.6	3489.5	3801.9	4092.3	4071.5
57.5°	1394.8	1411.5	1545.9	1832.3	2236.6	2832.7	3524.9	3927.8	4333.2	4318.0
60°	860.8	897.0	1150.9	1433.5	1843.1	2551.6	3502.6	4055.1	4625.5	4637.8
62.5°	484.8	498.2	611.4	1031.4	1433.1	2173.7	3331.7	4126.2	4999.3	5051.5
65°	334.7	341.4	385.0	641.9	993.4	1730.6	2997.7	4081.9	5373.9	5479.3
67.5°	243.1	246.5	273.7	392.1	589.4	1254.8	2474.2	3858.5	5572.4	5748.5
70°	186.9	189.1	208.9	257.7	348.1	774.5	1796.9	3414.3	5428.7	5639.0
72.5°	151.9	154.1	169.4	190.6	230.8	458.0	1089.1	2772.8	4794.2	5021.3
75°	128.1	131.1	144.8	158.6	181.0	294.1	510.8	1930.9	3605.3	3754.3
77.5°	71.1	65.5	117.7	131.4	152.7	186.2	239.0	1136.4	2019.2	2060.5
80°	44.3	45.8	93.5	105.7	117.3	93.8	109.5	437.5	700.0	665.0
82.5°	2.6	6.0	71.9	76.3	80.4	40.2	41.3	148.6	168.7	154.9
85°	0.0	0.0	32.8	26.4	27.9	11.5	11.9	34.6	22.7	24.6
87.5°	0.0	0.0	0.0	0.7	0.0	1.1	2.2	3.0	1.1	1.5
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°
691.4	0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
726.8	2.5°	700.7	674.7	621.8	570.0	528.0	488.9	461.0	434.5	421.1	420.4
773.7	5°	722.0	667.2	561.5	468.0	392.8	332.5	293.4	265.5	251.3	246.5
831.4	7.5°	751.7	669.5	508.6	378.7	290.0	238.3	216.0	207.0	204.0	200.7
896.6	10°	789.4	674.7	461.3	304.9	228.6	202.6	193.6	189.9	187.7	185.4
969.9	12.5°	831.4	679.5	414.4	253.2	201.1	187.7	181.3	176.9	173.9	171.3
1045.1	15°	872.4	682.5	365.6	217.1	186.9	176.1	169.4	164.6	160.5	157.5
1118.9	17.5°	913.0	686.6	319.8	195.5	175.4	164.6	157.9	151.9	148.6	145.2
1196.3	20°	958.0	685.8	276.6	180.2	163.8	153.0	146.0	140.4	137.0	133.3
1278.2	22.5°	999.7	682.1	238.7	167.2	151.9	141.5	133.7	128.1	124.7	121.8
1362.0	25°	1047.8	679.1	207.0	155.3	140.7	130.3	121.8	116.5	112.8	110.2
1446.2	27.5°	1093.9	674.7	183.9	144.5	129.9	119.9	111.7	105.7	102.4	100.5
1532.9	30°	1139.3	673.6	175.4	134.0	120.3	110.2	102.0	96.4	93.8	93.1
1628.2	32.5°	1194.1	676.5	179.1	130.3	111.3	101.3	93.5	89.4	86.8	86.8
1734.3	35°	1252.5	675.8	184.7	133.7	105.4	92.3	86.4	83.8	81.2	81.2
1852.0	37.5°	1325.9	676.9	189.1	139.3	103.1	84.9	81.5	78.2	76.7	76.7
1980.8	40°	1435.4	713.8	186.9	144.1	102.4	79.7	73.0	71.9	70.7	70.7
2126.4	42.5°	1569.4	793.8	189.9	144.5	102.0	76.0	67.0	69.3	66.6	66.3
2290.6	45°	1716.1	881.3	208.9	136.6	101.6	74.1	64.0	66.6	62.6	62.6
2480.9	47.5°	1861.7	968.1	228.2	125.5	100.5	73.7	61.4	59.9	58.8	59.2
2728.8	50°	2062.4	1038.8	235.7	110.2	97.9	73.0	56.6	57.0	56.2	57.0
3078.5	52.5°	2280.9	1053.7	226.8	93.1	90.5	70.7	53.2	54.7	54.4	55.1
3324.6	55°	2417.2	1037.7	187.3	77.4	78.9	61.8	49.9	52.9	52.9	52.9
3565.1	57.5°	2557.9	969.6	132.9	62.9	65.5	50.6	46.9	51.0	50.6	50.3
3854.8	60°	2659.2	859.4	87.5	51.8	52.1	41.7	43.6	48.0	47.7	45.8
4153.4	62.5°	2734.8	737.6	56.2	43.9	39.8	37.6	39.8	43.6	42.1	38.0
4406.6	65°	2726.2	568.9	43.2	37.6	32.8	32.8	34.6	38.0	33.5	26.8
4455.0	67.5°	2567.3	385.0	35.7	31.6	27.6	27.2	28.7	31.6	28.7	22.7
4207.0	70°	2283.2	251.7	28.7	24.6	22.0	20.1	23.1	27.2	24.2	18.2
3581.5	72.5°	1853.1	153.4	21.6	17.9	16.0	13.0	18.2	22.3	19.4	13.4
2490.6	75°	1198.9	78.2	14.9	11.5	8.6	7.8	13.4	16.8	13.4	8.2
1105.1	77.5°	458.7	32.8	8.2	5.2	4.5	3.7	7.4	10.1	5.6	1.9
214.1	80°	88.2	13.8	4.1	2.6	2.2	1.5	1.1	0.7	0.0	0.0
38.0	82.5°	15.3	4.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.4	85°	5.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	1.9	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>
691.4
419.6
245.7
199.9
184.7
170.5
157.1
144.8
132.9
121.4
109.8
100.5
92.7
86.8
81.2
76.7
70.7
65.9
62.6
59.2
57.0
55.1
52.9
50.3
45.8
37.2
26.1
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17.5
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