

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: P946116

Luminaire Tested: **GALN-SB1D-840-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7892 lumens
Efficiency: N/A
Efficacy: 99.1 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

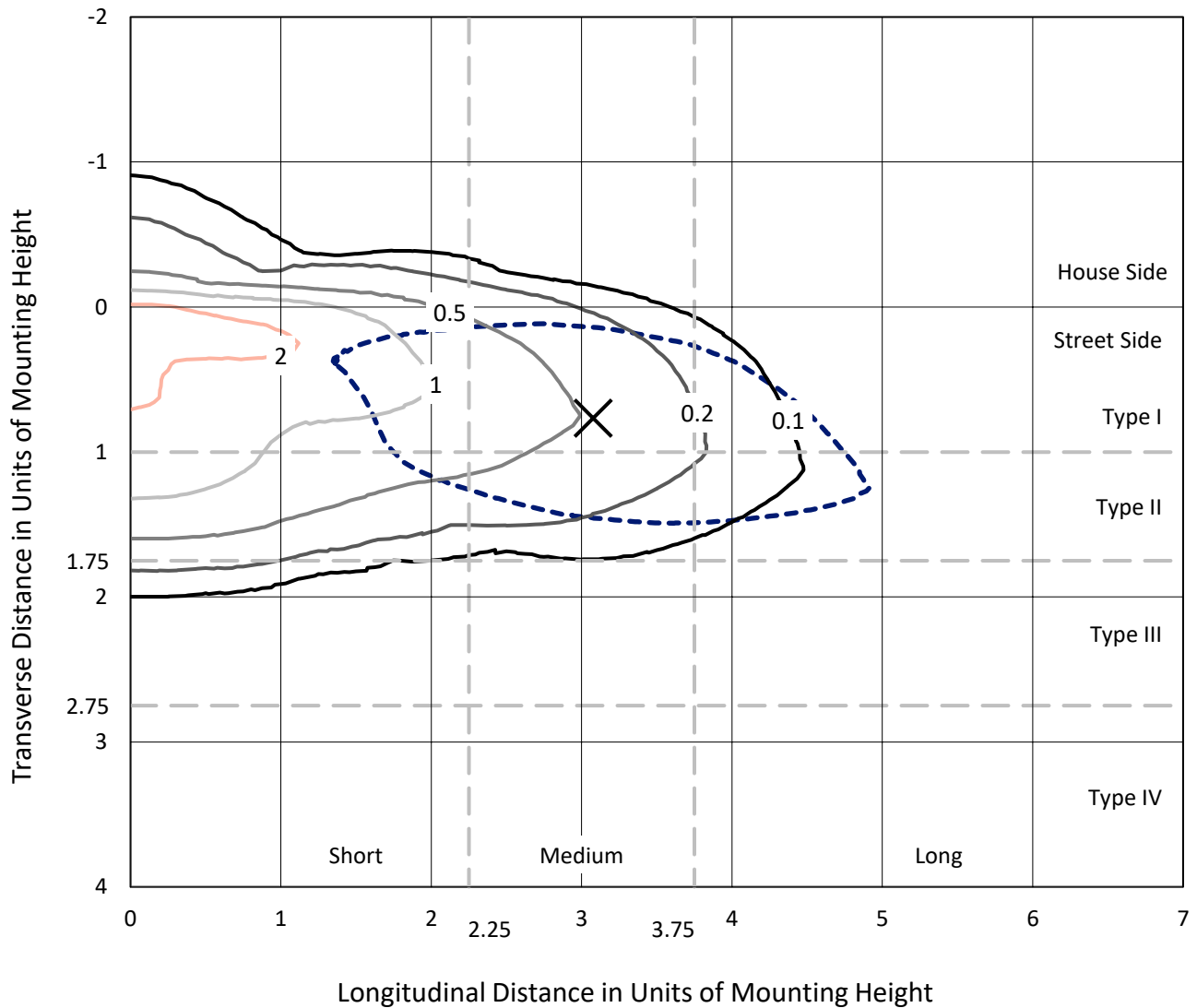
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

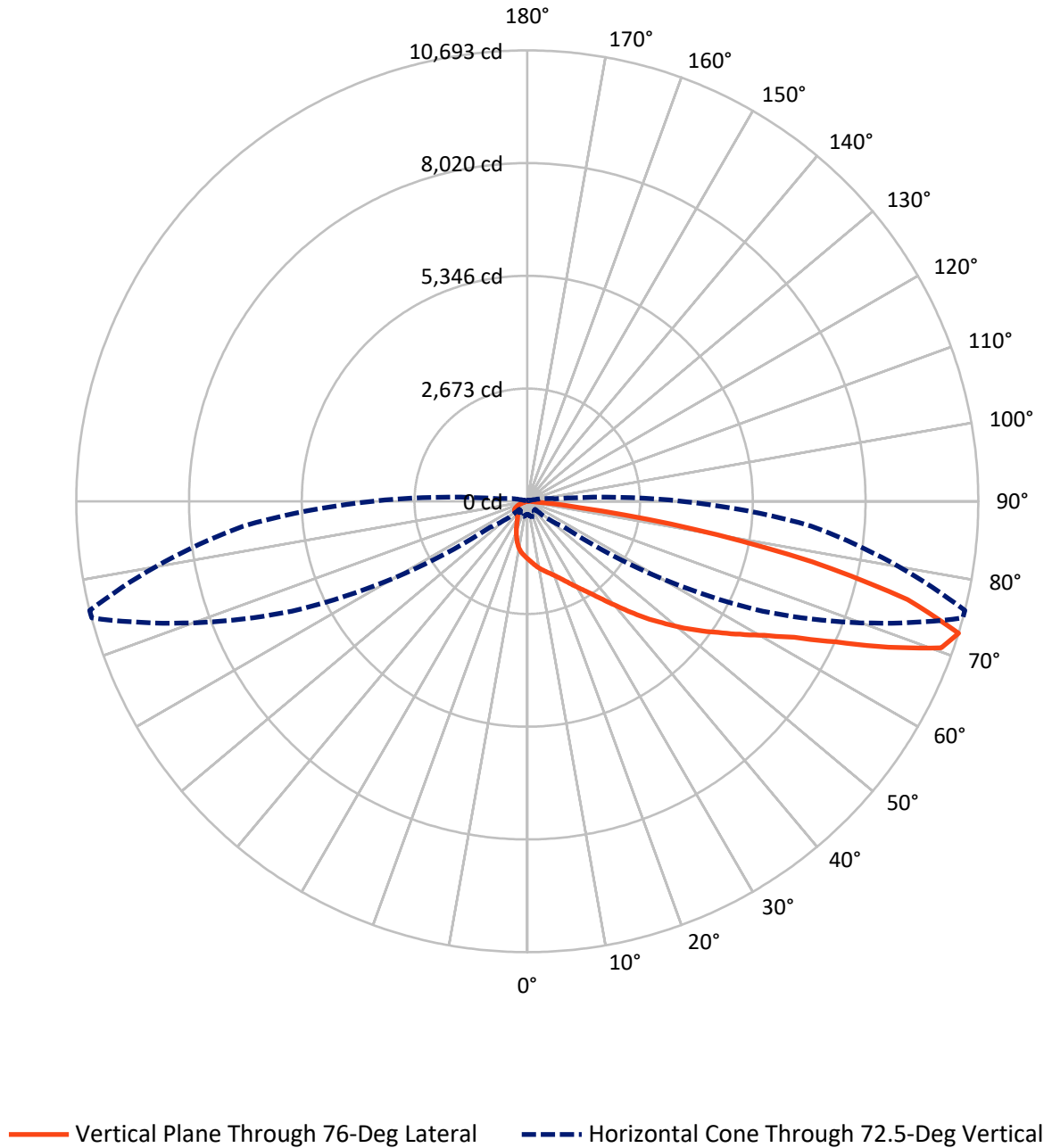
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	807.7	0.0	807.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7084.2	0.0	7084.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	7892.0	0.0	7892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.6
10°-20°	332.6	4.2
20°-30°	526.4	6.7
30°-40°	814.4	10.3
40°-50°	1236.9	15.7
50°-60°	1705.2	21.6
60°-70°	1801.5	22.8
70°-80°	1235.9	15.7
80°-90°	115.0	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°	7892.0	100.0
0°-180°	7892.0	100.0

Coefficient of Utilization



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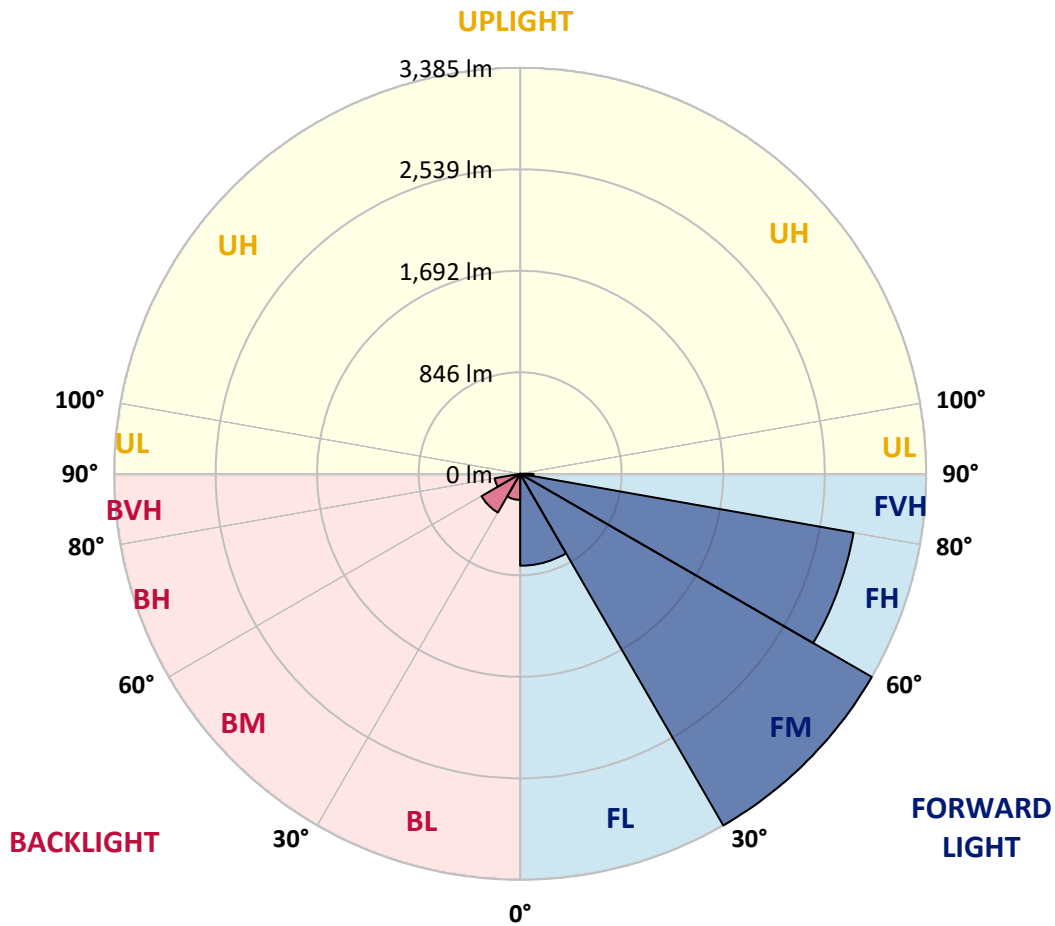
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.9	9.7			
FM (30°-60°)	3384.7	42.9			
FH (60°-80°)	2821.7	35.8			G2/5000
FVH (80°-90°)	111.9	1.4			G2/225
BL (0°-30°)	217.1	2.8	B1/500		
BM (30°-60°)	371.9	4.7	B1/1000		
BH (60°-80°)	215.6	2.7	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8
2.5°	1585.5	1564.5	1568.6	1547.6	1537.9	1514.3	1489.7	1457.5	1421.7	1421.7
5°	1752.4	1739.1	1739.1	1714.5	1695.5	1658.7	1614.7	1557.8	1490.3	1483.6
7.5°	1854.8	1846.6	1851.7	1837.4	1822.0	1783.6	1731.4	1657.1	1561.4	1553.2
10°	1874.7	1874.2	1888.5	1892.6	1902.9	1883.4	1836.8	1751.3	1631.6	1619.8
12.5°	1797.4	1787.7	1823.0	1864.5	1922.8	1949.0	1924.9	1837.4	1695.5	1679.2
15°	1670.5	1672.5	1706.3	1770.3	1867.6	1960.7	1992.0	1921.3	1760.6	1741.1
17.5°	1597.8	1590.1	1619.3	1676.6	1784.1	1915.7	2023.2	1999.6	1829.7	1807.7
20°	1589.1	1588.5	1595.2	1621.3	1703.2	1851.2	2019.6	2075.9	1911.1	1885.5
22.5°	1649.5	1648.4	1642.8	1637.7	1660.2	1788.2	2004.2	2148.6	2008.3	1980.7
25°	1742.1	1740.6	1731.9	1700.7	1678.6	1754.4	1989.9	2216.2	2123.5	2092.8
27.5°	1855.3	1854.2	1838.4	1791.3	1734.5	1757.5	1982.7	2285.8	2256.6	2226.4
30°	1994.0	1992.0	1959.2	1892.6	1818.4	1806.1	1992.5	2364.1	2395.4	2372.3
32.5°	2168.1	2162.4	2119.4	2019.1	1915.2	1871.1	2010.9	2444.5	2559.7	2538.2
35°	2302.7	2294.0	2268.9	2180.3	2027.3	1951.0	2053.9	2539.7	2757.3	2738.4
37.5°	2418.4	2409.7	2389.2	2316.5	2188.0	2052.9	2123.0	2666.7	2990.7	2981.5
40°	2543.3	2529.0	2519.3	2441.4	2325.2	2199.8	2221.8	2815.2	3259.5	3260.5
42.5°	2639.6	2633.9	2635.0	2575.1	2457.8	2373.9	2352.9	2982.6	3581.5	3591.3
45°	2722.0	2717.4	2736.3	2694.3	2591.4	2488.0	2506.5	3172.0	3933.7	3953.7
47.5°	2785.5	2790.6	2817.7	2790.6	2730.2	2568.4	2642.6	3376.2	4303.9	4306.4
50°	2848.9	2851.0	2896.0	2882.7	2858.2	2670.3	2768.1	3604.6	4694.0	4698.6
52.5°	2868.9	2865.8	2937.5	2970.3	2971.3	2796.2	2930.3	3853.4	5076.4	5091.2
55°	2766.5	2775.2	2890.9	3024.0	3076.8	2970.3	3149.5	4168.2	5483.9	5490.0
57.5°	2265.8	2314.0	2569.9	2878.6	3144.8	3219.6	3464.3	4536.3	5954.4	5948.7
60°	1375.1	1432.4	1738.5	2414.3	2922.7	3469.9	3928.1	5106.6	6468.4	6452.5
62.5°	768.9	786.3	884.1	1445.2	2222.8	3310.7	4381.2	5839.2	7158.4	7104.7
65°	566.7	572.3	595.4	708.0	1092.5	2546.4	4281.9	6715.1	8128.1	8032.3
67.5°	492.5	498.1	520.6	536.0	487.9	1337.7	3527.8	7200.9	9359.3	9233.8
70°	414.7	417.7	454.1	464.3	349.1	508.9	2266.4	7050.9	10498.9	10409.3
72.5°	309.2	321.5	374.2	398.8	280.0	270.3	1066.9	6164.8	10691.9	10692.9
75°	209.9	221.2	281.6	328.2	216.0	189.4	430.5	4603.4	9310.1	9310.1
77.5°	143.3	152.6	196.1	257.5	163.8	130.0	223.2	2921.6	6679.3	6914.3
80°	63.5	69.1	126.4	186.9	124.4	84.0	126.4	1599.8	4039.2	3989.5
82.5°	31.2	35.8	80.9	116.7	80.4	51.7	66.6	760.7	1309.0	1244.0
85°	6.1	8.2	43.5	49.7	37.4	23.0	25.1	234.0	157.7	180.2
87.5°	0.0	0.0	13.3	9.2	4.1	5.1	5.1	21.0	12.3	14.3
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°
1363.8	0°	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8
1386.8	2.5°	1368.4	1349.5	1308.0	1267.0	1225.1	1186.7	1160.1	1133.4	1117.1	1109.9
1417.6	5°	1379.2	1340.8	1253.7	1162.6	1072.5	984.5	918.4	856.5	837.0	804.8
1453.9	7.5°	1396.1	1333.6	1196.4	1042.8	896.4	767.4	674.2	600.0	570.3	541.6
1485.1	10°	1407.3	1320.3	1120.6	915.3	717.2	572.3	483.3	429.5	410.1	392.7
1514.3	12.5°	1411.9	1295.7	1033.6	772.5	558.0	436.2	382.9	357.8	351.2	345.0
1542.0	15°	1416.0	1271.7	936.3	634.8	440.8	365.0	344.0	335.8	331.2	327.1
1570.1	17.5°	1419.6	1240.9	825.2	516.0	372.2	336.3	326.1	317.4	313.8	309.2
1610.6	20°	1431.9	1211.2	725.9	425.9	334.8	315.9	304.6	295.4	292.3	289.2
1667.9	22.5°	1454.9	1187.2	629.7	365.0	312.3	294.9	280.5	270.3	268.3	266.2
1737.5	25°	1482.6	1157.5	539.1	325.6	290.3	270.8	254.9	246.2	244.2	244.7
1817.9	27.5°	1517.9	1124.7	461.3	300.5	270.8	248.3	230.4	223.7	224.7	226.8
1910.6	30°	1556.8	1094.5	400.3	283.1	253.4	228.3	210.4	205.8	209.4	212.5
2034.4	32.5°	1614.7	1067.9	357.8	269.3	238.1	211.9	197.6	192.0	196.1	200.2
2192.6	35°	1693.5	1054.6	333.8	257.5	224.7	199.1	184.8	180.7	184.8	185.8
2385.6	37.5°	1790.3	1053.6	323.5	247.8	212.5	188.4	172.5	171.0	174.1	174.6
2617.5	40°	1915.2	1060.2	315.9	240.6	199.7	176.1	161.3	159.7	160.7	164.3
2896.6	42.5°	2073.4	1087.9	305.1	231.4	185.8	163.8	152.0	148.5	148.0	152.0
3208.8	45°	2272.0	1148.8	290.8	216.6	173.5	153.6	141.8	137.7	136.2	137.2
3531.4	47.5°	2488.5	1223.5	276.4	202.7	164.8	145.4	133.6	128.5	125.9	125.9
3832.9	50°	2698.4	1308.0	266.7	188.4	158.7	137.7	124.9	119.8	115.7	114.7
4143.1	52.5°	2906.3	1390.9	259.0	174.1	151.5	128.0	116.7	111.1	106.5	104.4
4450.3	55°	3095.7	1469.8	245.7	160.2	142.3	117.7	108.5	102.9	97.3	93.7
4761.5	57.5°	3277.4	1535.3	221.2	145.9	128.0	108.0	99.8	93.7	87.0	82.4
5076.4	60°	3442.8	1569.1	190.4	130.5	113.7	97.8	90.1	84.5	75.8	68.1
5386.1	62.5°	3568.7	1555.8	157.2	113.1	98.8	88.6	78.8	73.2	63.0	53.8
5757.3	65°	3697.7	1483.1	125.4	94.7	86.5	76.3	66.0	60.4	48.6	38.9
6259.5	67.5°	3865.1	1328.0	98.8	78.8	74.7	60.4	51.7	48.1	39.9	30.7
6798.6	70°	3972.6	1031.6	76.8	64.0	61.4	44.0	39.9	39.4	31.7	23.5
6762.2	72.5°	3677.8	676.3	58.9	48.6	44.0	28.7	30.7	30.7	23.0	15.9
5927.7	75°	3070.1	395.7	42.5	34.8	25.1	18.4	21.0	21.0	14.3	7.7
4225.0	77.5°	2192.6	210.9	28.2	21.5	12.8	8.2	11.3	10.8	4.6	0.5
1656.1	80°	838.6	72.7	13.3	8.7	3.6	1.5	1.0	0.5	0.5	0.0
258.5	82.5°	128.0	18.9	2.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0
54.8	85°	23.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	5.1	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>
1363.8
1110.9
806.8
541.1
392.1
345.0
327.1
309.2
289.8
264.7
243.7
225.8
211.4
199.1
185.3
173.5
163.8
151.5
138.7
125.9
114.2
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92.1
80.4
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