

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: P946202

Luminaire Tested: **GALN-SB1D-935-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-935-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5703 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

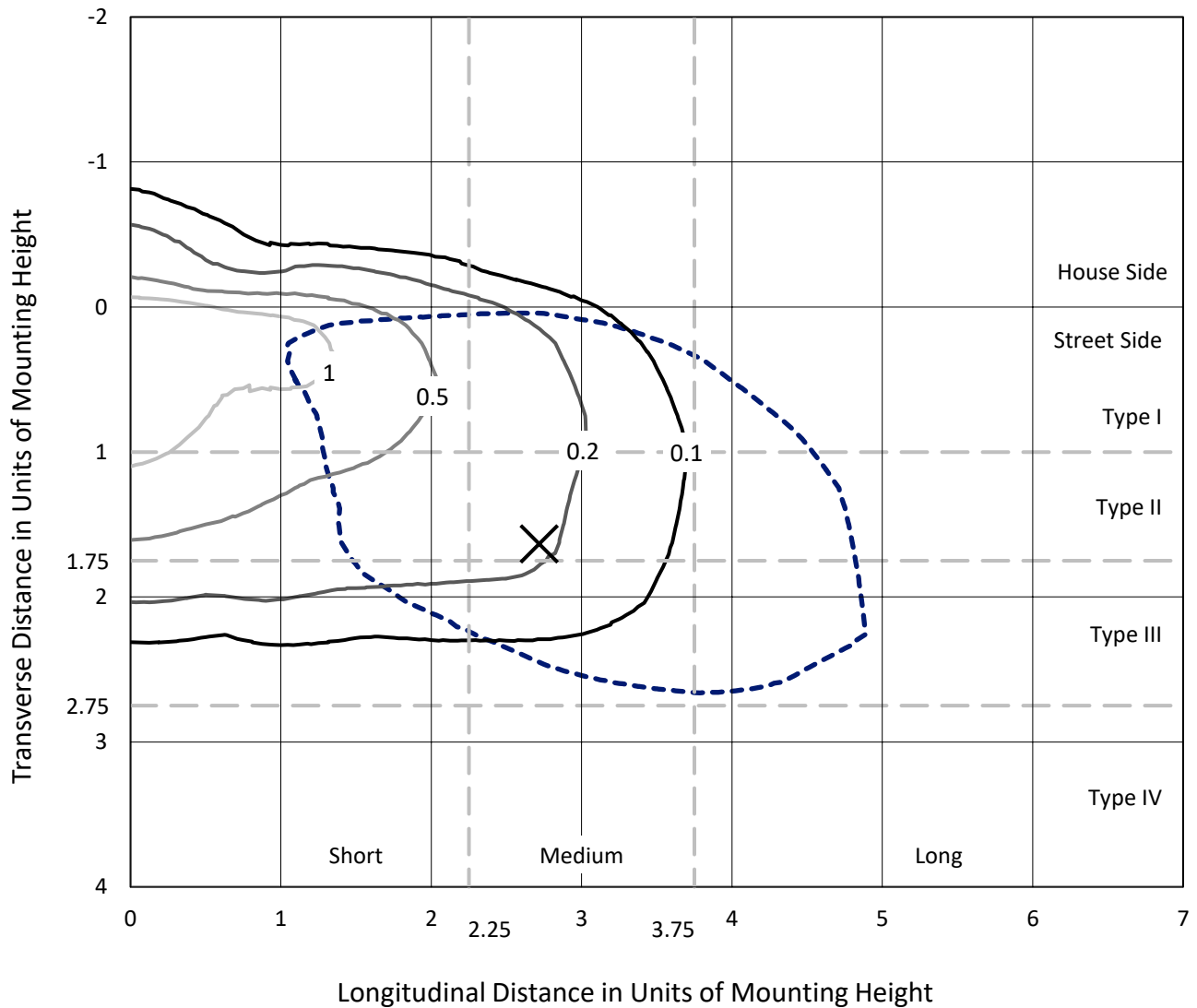
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

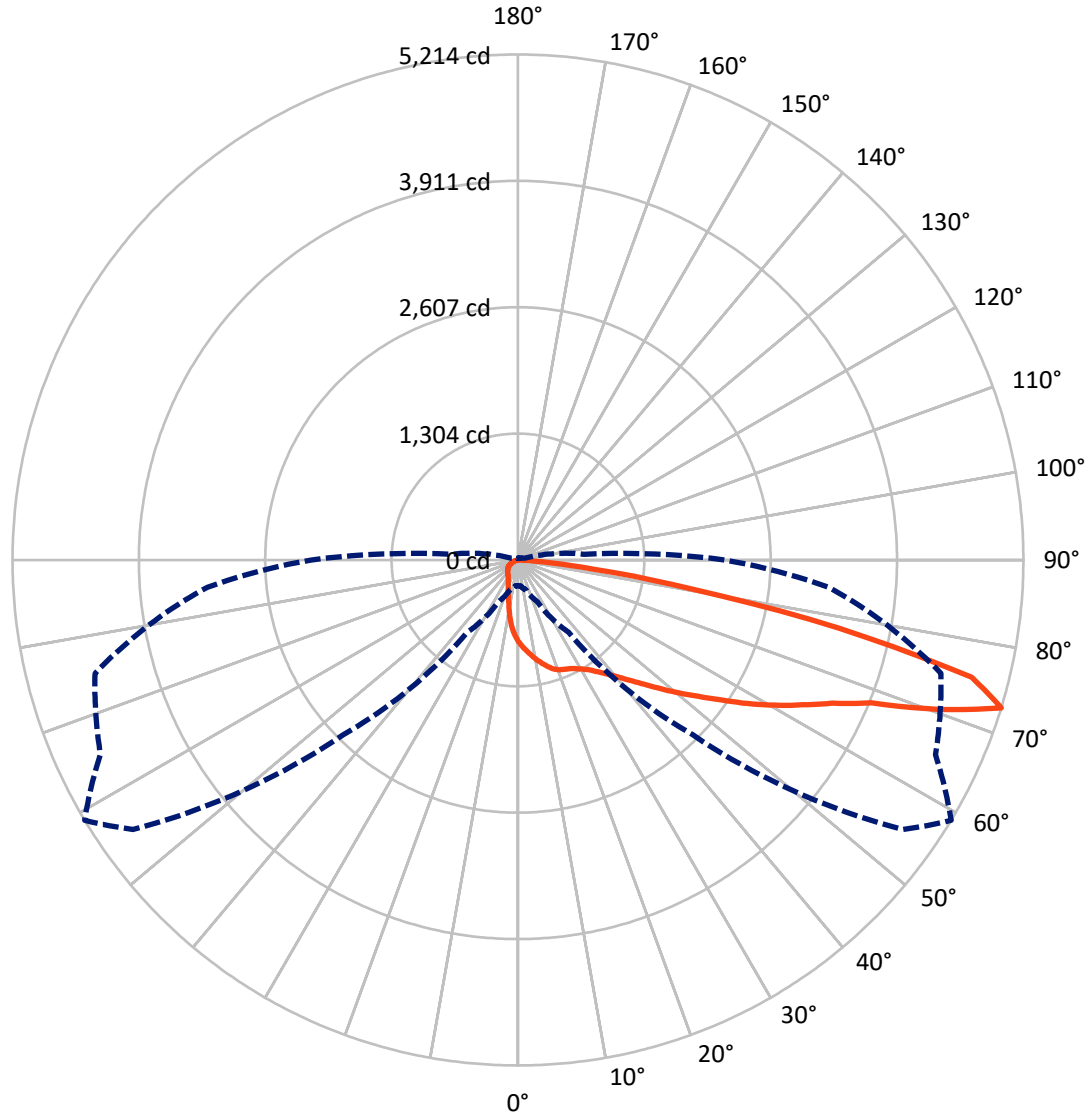
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.4	0.0	602.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5100.6	0.0	5100.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	5703.0	0.0	5703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.3
10°-20°	202.7	3.6
20°-30°	321.2	5.6
30°-40°	515.5	9.0
40°-50°	823.3	14.4
50°-60°	1192.0	20.9
60°-70°	1414.6	24.8
70°-80°	1050.1	18.4
80°-90°	107.4	1.9
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°	5703.0	100.0
0°-180°	5703.0	100.0

Coefficient of Utilization



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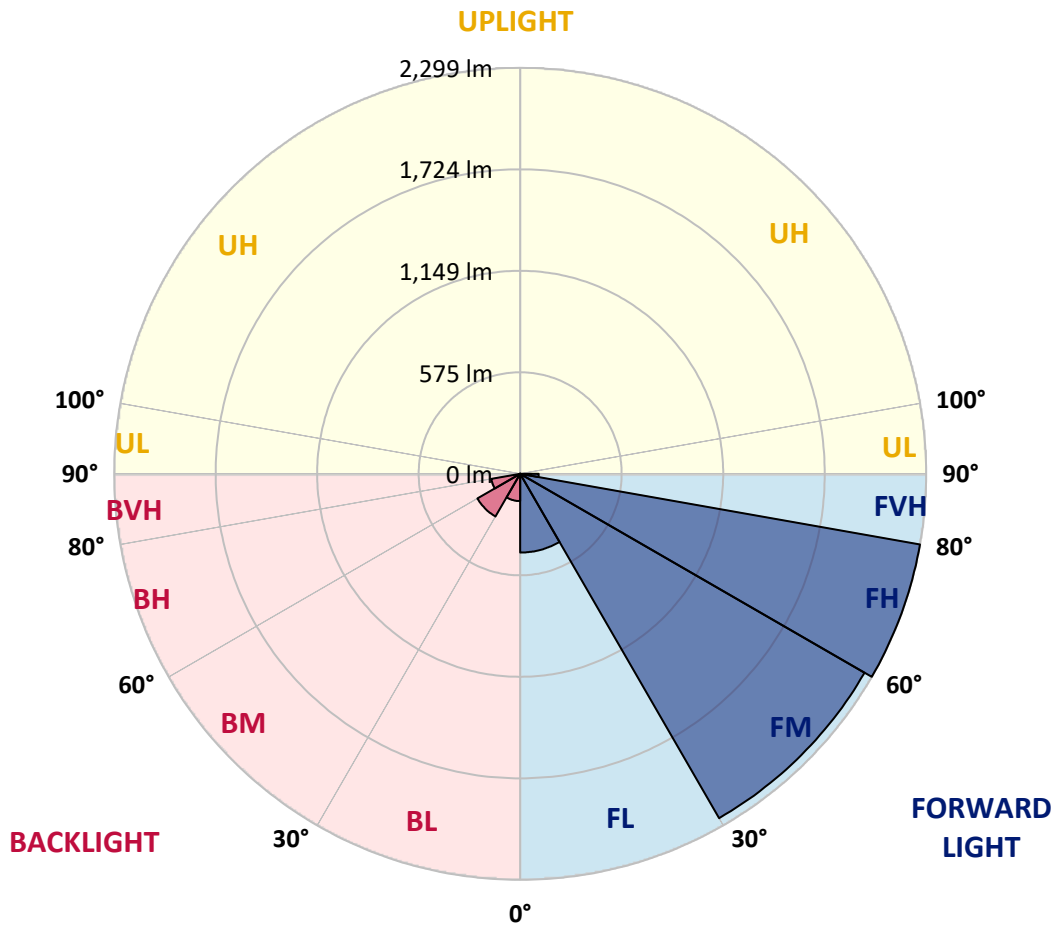
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.8	7.8			
FM (30°-60°)	2251.5	39.5			
FH (60°-80°)	2298.6	40.3			G2/5000
FVH (80°-90°)	104.7	1.8			G2/225
BL (0°-30°)	154.3	2.7	B1/500		
BM (30°-60°)	279.3	4.9	B1/1000		
BH (60°-80°)	166.1	2.9	B1/500		G1/500
BVH (80°-90°)	2.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	935.7	930.5	931.2	922.3	915.9	909.2	896.2	894.3	885.0	868.7
5°	1017.2	1013.9	1010.9	1000.8	987.8	971.4	949.5	941.6	924.5	896.2
7.5°	1076.8	1072.7	1074.2	1064.1	1053.7	1035.5	1005.3	990.8	968.1	924.9
10°	1088.3	1086.1	1095.8	1099.5	1099.5	1088.0	1058.5	1044.0	1010.9	955.8
12.5°	1023.5	1023.9	1048.1	1077.2	1115.1	1125.9	1106.2	1090.6	1057.8	988.5
15°	948.0	948.3	971.8	1009.0	1071.2	1133.4	1149.0	1139.0	1105.1	1023.9
17.5°	902.5	900.7	916.3	946.8	1012.0	1099.5	1175.1	1181.8	1154.2	1063.0
20°	896.2	892.9	901.0	916.3	962.9	1057.1	1178.1	1209.7	1204.9	1107.3
22.5°	934.9	929.7	925.3	926.0	945.7	1021.7	1170.6	1225.4	1257.0	1160.6
25°	1011.6	1003.4	988.9	970.3	966.2	1014.2	1165.4	1242.5	1305.4	1228.7
27.5°	1105.5	1093.9	1066.0	1038.1	1014.2	1035.1	1176.2	1269.7	1360.1	1308.0
30°	1208.6	1194.4	1166.5	1113.7	1075.7	1081.6	1201.9	1305.4	1430.1	1397.7
32.5°	1360.1	1327.4	1278.6	1197.8	1147.5	1131.9	1240.6	1350.8	1516.9	1517.3
35°	1490.1	1471.8	1422.7	1322.2	1219.0	1198.5	1291.6	1414.9	1637.2	1675.5
37.5°	1575.3	1550.4	1507.2	1431.6	1330.0	1267.1	1359.8	1493.4	1764.5	1855.7
40°	1670.7	1646.1	1588.8	1517.6	1458.8	1384.7	1445.8	1583.9	1904.1	2040.8
42.5°	1785.7	1753.7	1685.9	1609.2	1547.8	1539.6	1558.2	1696.7	2047.5	2241.8
45°	1920.9	1890.7	1812.9	1716.1	1662.1	1647.6	1699.7	1828.2	2207.2	2462.2
47.5°	2047.5	2012.5	1928.7	1840.4	1780.5	1734.7	1850.1	1983.4	2388.2	2692.7
50°	2155.1	2119.3	2042.6	1948.4	1907.8	1847.9	1997.9	2156.6	2567.6	2926.9
52.5°	2228.8	2197.1	2107.0	2043.0	2015.4	1985.3	2171.1	2340.1	2746.3	3141.4
55°	2212.0	2183.7	2104.4	2100.0	2098.1	2129.8	2378.1	2548.3	2928.4	3344.3
57.5°	2158.8	2126.8	2027.7	2095.9	2161.8	2258.6	2602.2	2794.4	3128.0	3535.7
60°	2002.0	1990.9	1930.6	2088.1	2188.6	2384.8	2858.4	3041.6	3343.9	3704.0
62.5°	1670.3	1680.0	1679.6	2104.4	2237.0	2528.5	3091.1	3291.8	3555.1	3866.0
65°	1250.7	1284.2	1327.0	1957.0	2301.8	2785.1	3369.3	3563.2	3769.5	4054.4
67.5°	840.4	867.2	896.2	1605.5	2108.9	3054.6	3831.3	3935.2	4026.4	4263.2
70°	481.1	489.6	530.2	1002.7	1625.6	2980.2	4583.8	4621.4	4409.6	4520.5
72.5°	269.6	266.6	320.2	475.8	908.5	2552.0	4847.4	5214.2	4752.5	4516.4
75°	180.2	180.6	220.4	300.1	354.1	1786.5	4177.2	4834.8	4547.0	4004.8
77.5°	122.9	127.0	162.0	232.0	163.8	871.6	2763.5	3386.8	3681.3	3092.6
80°	53.2	53.6	106.9	166.4	110.6	277.4	1432.7	1814.4	2308.8	1736.6
82.5°	27.6	31.3	68.1	107.6	69.6	97.2	676.9	792.7	968.8	509.7
85°	9.7	11.5	42.1	52.9	35.0	34.6	235.7	240.2	205.2	76.7
87.5°	0.0	1.9	16.4	13.0	4.5	4.1	27.9	23.5	18.6	10.8
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°
843.3	0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
851.9	2.5°	844.1	834.0	817.6	797.5	774.1	761.4	743.2	732.0	722.0	722.3
863.4	5°	845.2	828.4	786.7	742.4	693.3	657.2	617.0	588.7	567.1	561.9
875.4	7.5°	848.6	820.3	752.1	678.4	596.5	535.8	480.3	445.3	425.6	420.4
887.6	10°	853.0	811.3	713.0	600.2	498.6	425.6	379.4	357.1	348.1	341.4
903.3	12.5°	856.7	802.0	663.9	519.4	411.4	354.5	319.5	300.8	293.0	288.2
921.5	15°	863.1	789.7	610.6	444.2	352.6	306.1	272.9	259.1	256.9	257.7
941.6	17.5°	869.4	777.8	551.1	385.4	309.4	263.6	243.5	241.3	244.3	247.2
964.7	20°	876.5	760.7	490.7	341.1	269.6	234.2	229.0	230.5	232.0	237.2
996.4	22.5°	886.9	739.1	437.9	303.5	236.4	220.0	217.4	218.6	219.7	224.9
1038.1	25°	901.8	716.0	395.0	268.8	215.6	208.5	205.9	205.9	207.4	212.2
1086.5	27.5°	917.4	683.2	360.4	236.8	203.3	195.8	191.4	191.4	193.2	198.8
1147.2	30°	934.9	653.4	333.2	213.0	192.9	183.2	177.2	175.7	178.0	185.1
1235.0	32.5°	966.6	634.1	313.9	201.8	183.6	171.6	163.5	159.4	161.6	169.8
1357.9	35°	1014.6	629.6	300.5	196.2	174.6	161.2	149.7	143.3	145.2	153.8
1509.4	37.5°	1070.8	638.9	287.4	188.8	166.1	151.2	135.9	127.7	130.7	138.5
1682.6	40°	1151.6	677.6	277.4	183.2	157.5	139.3	122.1	113.9	118.8	125.5
1862.8	42.5°	1249.2	746.5	274.8	178.0	147.1	126.6	109.5	103.5	107.2	113.6
2044.9	45°	1370.2	834.4	286.7	171.3	135.5	114.3	99.4	96.1	97.2	103.5
2216.9	47.5°	1500.1	924.5	319.5	165.3	125.5	104.3	91.6	88.6	87.9	93.8
2374.0	50°	1631.6	1004.6	358.2	160.8	118.4	96.1	85.6	81.9	80.1	83.8
2529.3	52.5°	1761.5	1068.2	383.5	153.4	111.3	87.9	80.4	74.8	71.5	73.3
2683.8	55°	1893.3	1124.1	385.0	142.2	104.6	82.7	75.2	68.9	64.8	64.8
2832.7	57.5°	2016.6	1173.2	363.0	127.3	95.3	77.8	68.1	62.9	58.5	57.0
2964.9	60°	2125.7	1209.7	326.5	110.6	87.1	71.5	61.1	57.0	51.4	48.4
3082.6	62.5°	2222.8	1227.6	276.6	93.5	77.1	64.0	54.4	49.9	42.4	38.7
3202.1	65°	2305.1	1209.3	224.5	77.4	68.5	55.9	46.5	42.1	33.9	29.4
3336.5	67.5°	2386.7	1125.9	169.8	65.2	59.6	46.9	38.4	34.3	28.3	24.6
3434.4	70°	2397.1	950.6	118.8	54.7	49.5	36.1	30.9	28.3	23.1	19.7
3215.9	72.5°	2133.8	684.0	72.2	44.7	38.7	25.7	24.6	22.3	17.1	14.9
2627.6	75°	1705.7	419.2	42.4	33.5	25.7	18.2	18.2	16.0	11.5	9.7
1814.0	77.5°	1178.8	219.3	24.9	21.6	15.3	10.8	11.9	9.7	5.6	4.5
718.6	80°	472.1	83.4	13.4	10.1	7.1	4.8	4.1	2.2	1.1	0.7
147.4	82.5°	94.2	22.0	4.5	2.6	2.6	1.1	0.0	0.0	0.0	0.0
40.6	85°	24.2	4.8	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0
13.4	87.5°	7.4	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>
843.3
730.5
569.7
425.6
345.5
290.8
258.8
248.3
238.7
226.4
214.1
201.1
186.9
172.0
156.4
140.7
126.6
114.7
106.5
97.6
85.3
74.8
65.5
57.3
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38.4
29.4
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