

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: P939384

Luminaire Tested: **GALN-SB1D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5171 lumens
Efficiency: N/A
Efficacy: 65.0 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

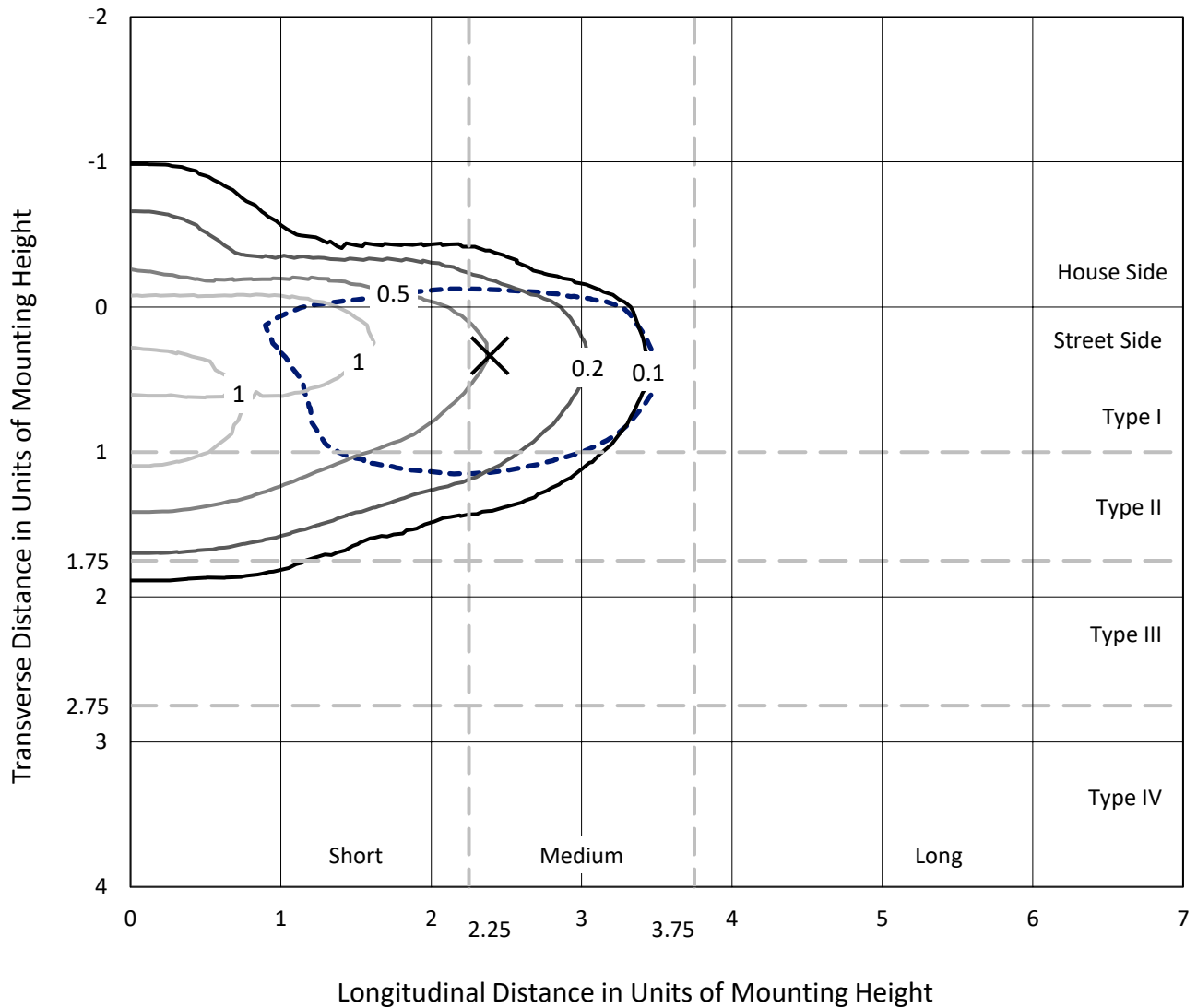
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

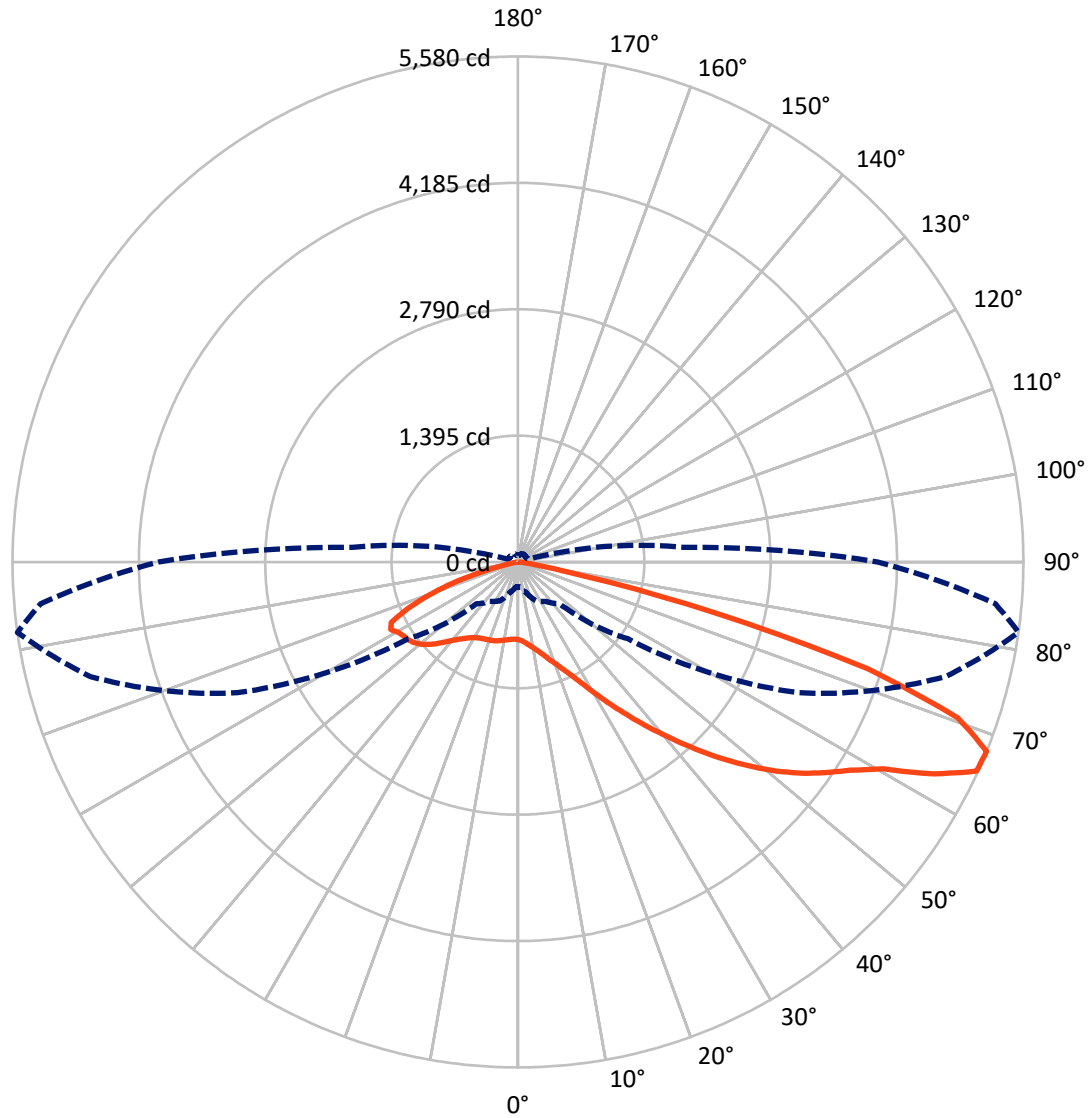
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	936.7	0.0	936.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4234.3	0.0	4234.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	5171.0	0.0	5171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.5
10°-20°	198.3	3.8
20°-30°	317.7	6.1
30°-40°	561.7	10.9
40°-50°	984.2	19.0
50°-60°	1312.6	25.4
60°-70°	1222.0	23.6
70°-80°	469.0	9.1
80°-90°	29.1	0.6
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°	5171.0	100.0
0°-180°	5171.0	100.0

Coefficient of Utilization



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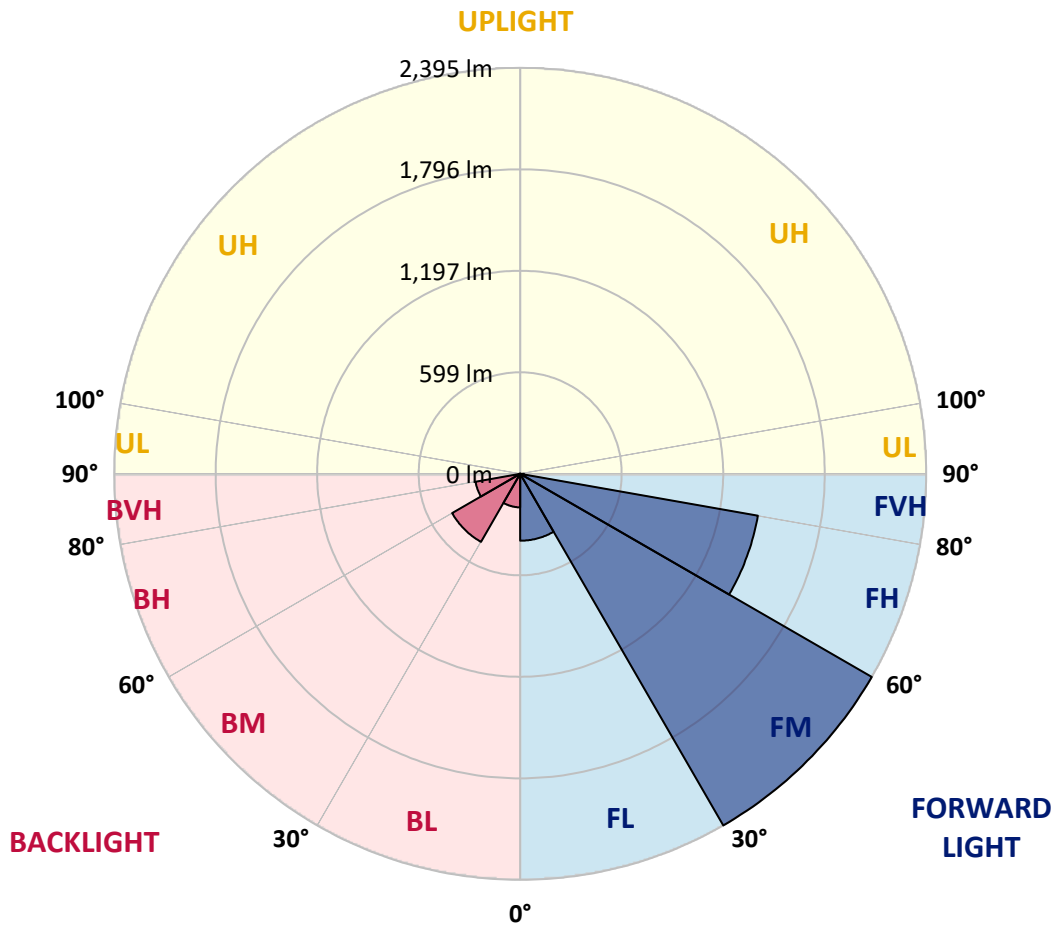
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.5	7.6			
FM (30°-60°)	2395.0	46.3			
FH (60°-80°)	1423.7	27.5			G1/1800
FVH (80°-90°)	21.2	0.4			G1/100
BL (0°-30°)	197.8	3.8	B1/500		
BM (30°-60°)	463.6	9.0	B1/1000		
BH (60°-80°)	267.3	5.2	B1/500		G1/500
BVH (80°-90°)	8.0	0.2			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°	82°
0°	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7
2.5°	905.4	910.6	907.7	906.2	903.6	899.8	896.9	887.6	877.9	871.6
5°	923.7	928.9	928.5	930.0	931.9	933.0	932.2	921.8	908.0	897.2
7.5°	908.0	914.0	918.8	926.3	939.3	953.1	959.8	957.6	943.4	928.5
10°	863.7	870.1	881.6	899.1	926.7	956.4	981.4	992.9	984.0	967.6
12.5°	782.6	788.9	811.6	849.6	895.8	947.5	995.2	1026.1	1028.3	1011.9
15°	691.4	697.7	721.9	769.5	839.9	922.9	1002.6	1061.1	1080.8	1066.6
17.5°	634.8	640.4	658.6	696.9	770.3	873.8	1000.0	1098.3	1143.3	1132.2
20°	617.6	622.5	631.0	657.9	718.9	822.8	982.9	1133.3	1210.7	1204.4
22.5°	635.9	640.4	643.0	654.9	693.2	789.3	961.3	1169.0	1288.9	1289.6
25°	678.0	682.4	679.4	686.9	703.6	778.8	953.1	1211.1	1387.2	1395.4
27.5°	747.2	747.6	740.5	740.1	742.7	794.5	961.6	1256.1	1511.2	1526.4
30°	886.1	880.5	853.3	823.9	810.5	841.4	985.5	1309.4	1657.5	1684.7
32.5°	1100.1	1092.0	1042.1	971.7	901.0	917.0	1028.3	1370.1	1816.8	1866.0
35°	1332.5	1330.2	1278.1	1173.5	1049.9	1024.6	1097.9	1449.7	1990.7	2068.9
37.5°	1548.4	1547.3	1517.5	1394.3	1243.9	1174.6	1209.6	1554.0	2176.8	2290.0
40°	1745.7	1749.1	1719.3	1609.1	1457.6	1367.1	1361.5	1682.8	2383.8	2530.9
42.5°	1916.2	1919.9	1889.8	1808.3	1668.6	1580.0	1548.0	1840.6	2586.0	2789.6
45°	2032.0	2055.1	2050.6	1985.5	1885.3	1793.4	1772.1	2038.7	2816.4	3064.0
47.5°	2064.8	2086.0	2119.5	2128.4	2067.4	1976.9	2002.2	2277.4	3049.5	3338.8
50°	1984.0	2003.7	2073.3	2166.0	2208.5	2180.6	2226.0	2533.1	3288.1	3612.8
52.5°	1824.6	1844.7	1932.6	2079.3	2252.4	2340.3	2450.5	2785.2	3519.3	3872.3
55°	1594.2	1615.4	1728.2	1894.3	2168.6	2406.2	2637.7	3036.8	3731.2	4105.7
57.5°	1280.7	1296.3	1413.6	1645.9	1957.9	2340.6	2775.9	3311.6	3930.7	4335.0
60°	834.7	848.5	984.7	1243.9	1608.7	2121.7	2803.4	3618.0	4195.8	4633.3
62.5°	555.1	564.4	645.2	835.4	1132.9	1701.4	2642.2	3862.6	4584.5	5152.2
65°	380.9	390.2	471.0	603.5	731.9	1125.5	2178.7	3830.2	4936.7	5564.4
67.5°	271.8	279.6	348.1	473.2	529.8	653.8	1476.9	3416.2	4886.1	5580.0
70°	194.7	199.2	255.8	368.6	421.1	392.8	821.3	2612.8	4278.1	5152.6
72.5°	136.3	137.8	177.6	280.7	339.2	286.7	390.9	1742.0	3235.6	4044.3
75°	92.3	94.2	119.5	205.9	272.2	218.9	207.0	934.1	1899.5	2238.6
77.5°	56.6	57.3	77.1	140.7	203.6	166.8	133.3	395.8	734.9	721.5
80°	32.0	32.0	49.1	87.5	138.9	107.6	93.4	168.3	232.7	204.4
82.5°	17.9	18.2	35.7	54.4	92.0	63.7	51.4	77.8	100.5	89.0
85°	7.4	8.2	22.0	25.7	43.9	31.6	20.8	32.8	37.2	33.1
87.5°	0.7	1.1	6.7	4.8	5.2	6.3	3.0	6.3	5.2	5.2
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°
856.7	0°	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7	856.7
869.3	2.5°	862.2	856.7	842.5	826.1	804.5	794.1	780.0	770.3	762.1	762.8
890.9	5°	879.0	864.9	833.2	793.7	744.6	709.6	672.4	646.7	625.8	621.4
920.7	7.5°	902.1	879.7	824.3	753.2	670.1	607.2	551.0	514.9	489.2	481.0
956.8	10°	931.9	899.5	812.7	702.2	582.6	502.6	442.3	414.0	396.5	390.5
999.3	12.5°	966.5	922.2	797.5	640.0	492.6	415.5	377.1	363.0	357.4	355.5
1051.4	15°	1010.0	950.5	774.4	566.3	416.2	362.2	345.9	344.0	344.7	344.0
1113.9	17.5°	1061.8	981.4	736.8	490.3	364.9	335.1	329.1	330.6	332.5	332.1
1183.9	20°	1118.4	1011.9	688.8	422.9	329.9	315.7	312.4	313.8	315.3	314.6
1264.7	22.5°	1182.8	1044.7	635.5	370.4	306.4	297.8	294.1	294.5	294.5	293.0
1367.1	25°	1259.9	1080.8	579.7	333.2	288.5	281.8	277.4	275.9	273.6	269.2
1491.4	27.5°	1351.8	1119.1	526.1	307.1	274.4	268.1	262.8	259.1	253.5	246.1
1640.7	30°	1455.3	1165.7	480.6	290.8	263.2	256.9	250.9	245.3	237.2	227.8
1812.4	32.5°	1577.1	1215.6	447.5	280.0	253.2	246.5	239.4	232.7	223.8	214.4
2005.2	35°	1722.3	1275.9	428.1	272.5	245.3	236.4	228.6	221.1	214.4	206.3
2214.8	37.5°	1879.7	1339.9	422.2	268.8	240.1	226.4	217.4	212.2	211.5	206.6
2441.5	40°	2052.1	1415.9	426.7	266.6	234.5	216.7	207.0	205.9	207.7	199.2
2683.9	42.5°	2234.5	1505.9	434.1	264.0	226.7	207.0	197.7	197.7	196.2	184.3
2940.0	45°	2431.9	1609.8	441.5	257.6	217.4	197.3	190.2	187.6	181.3	169.8
3197.7	47.5°	2630.7	1715.6	447.1	246.1	206.3	189.1	182.8	176.8	167.5	157.1
3450.5	50°	2819.4	1810.5	441.2	229.0	193.6	181.3	174.6	166.4	156.4	149.3
3689.9	52.5°	2988.1	1892.8	415.9	208.9	180.2	173.1	167.2	158.6	150.4	143.0
3905.8	55°	3134.8	1959.4	371.2	189.9	168.3	166.0	160.1	149.3	138.1	131.8
4119.9	57.5°	3275.5	2010.0	315.3	174.2	157.5	158.2	149.3	139.6	129.2	122.5
4408.4	60°	3462.8	2077.8	258.7	159.7	145.9	148.2	138.5	131.4	118.4	109.8
4903.2	62.5°	3762.1	2183.2	205.5	141.8	132.5	133.3	129.2	120.6	105.0	94.9
5269.9	65°	3999.6	2144.4	162.0	122.5	117.3	118.4	118.4	109.1	92.3	80.8
5289.6	67.5°	3972.8	1836.2	129.2	103.5	102.8	103.5	106.1	98.3	81.9	72.6
4886.8	70°	3659.7	1460.5	103.5	86.0	89.4	87.5	94.9	89.7	73.7	64.4
3788.5	72.5°	2986.2	1052.1	78.9	71.1	68.5	71.5	85.6	80.8	61.4	51.0
2006.7	75°	1745.0	561.4	58.8	56.2	49.5	59.6	75.9	68.9	46.9	37.6
615.0	77.5°	568.1	195.8	43.2	41.3	36.9	48.0	64.8	58.1	38.3	29.8
180.2	80°	152.3	59.2	29.4	27.2	23.8	35.7	51.4	46.2	27.6	19.4
77.4	82.5°	61.1	24.9	17.1	15.3	13.0	24.6	40.6	37.2	20.5	12.3
24.2	85°	19.7	8.2	6.3	4.8	6.0	15.3	24.2	25.3	14.5	6.3
3.7	87.5°	2.6	1.1	1.1	1.5	1.1	2.6	7.4	7.1	4.1	0.7
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>
856.7
755.4
611.3
472.8
386.1
354.4
343.6
331.3
314.2
292.3
268.4
245.3
227.1
214.8
205.5
206.3
199.6
184.3
169.4
156.7
148.2
142.2
131.0
121.7
108.7
94.2
79.7
71.1
63.3
49.9
36.5
28.7
19.0
12.3
4.8
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