

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: P945508

Luminaire Tested: **GALN-SB1B-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1B-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

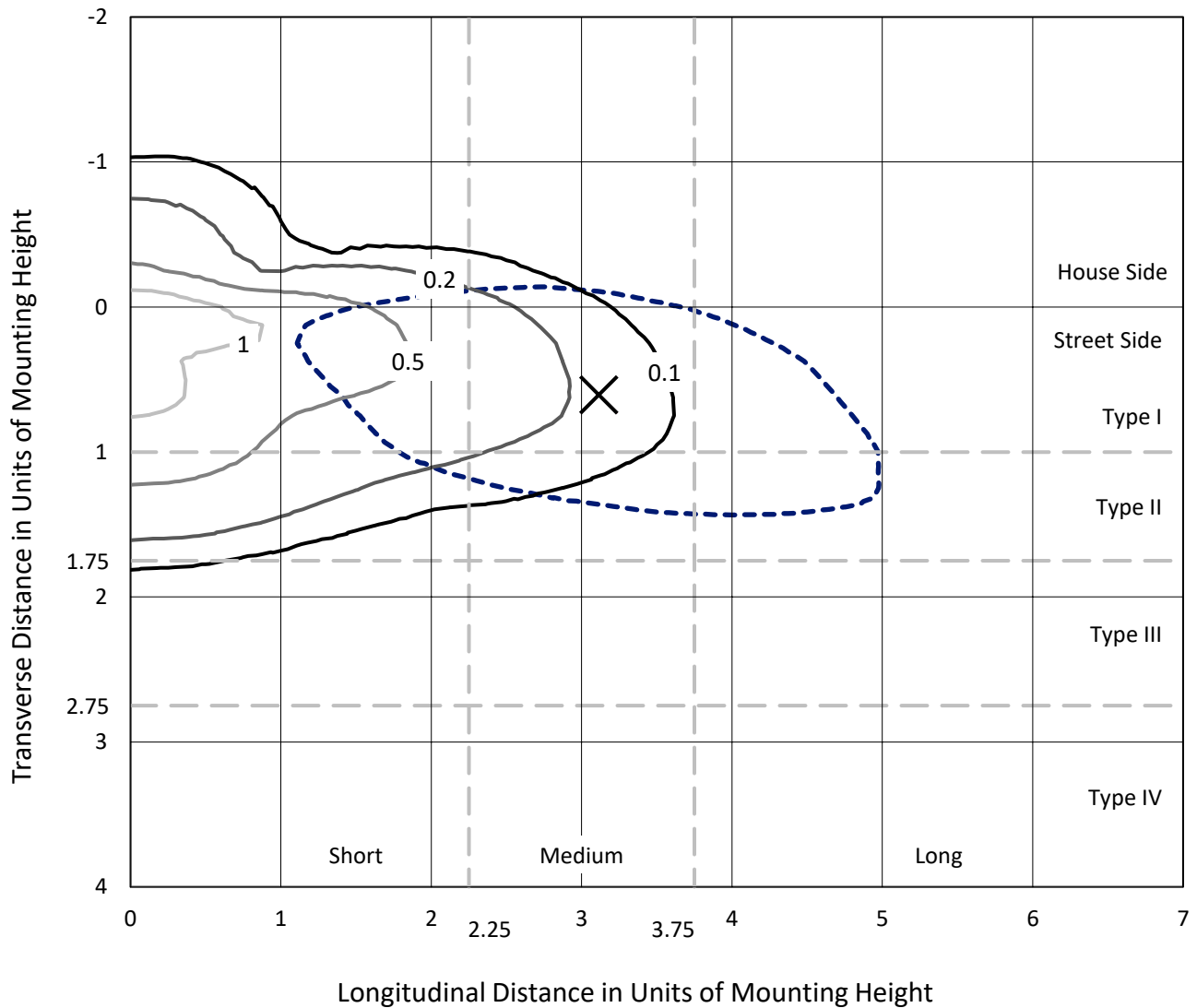
Lumens per Lamp: N/A  
Luminaire Lumens: 4057 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

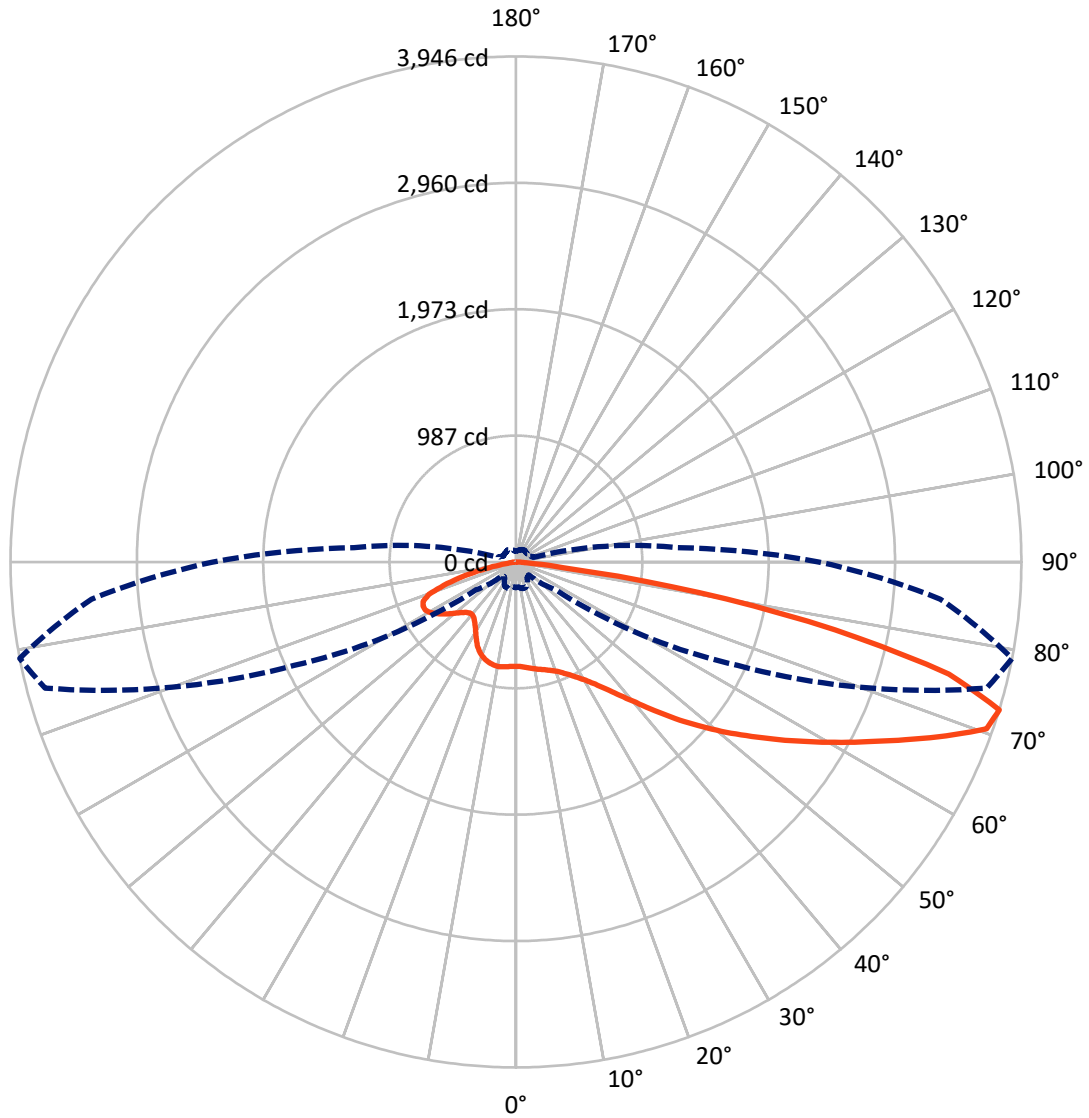
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	892.8	0.0	892.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	3164.2	0.0	3164.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	4057.0	0.0	4057.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.8
10°-20°	193.3	4.8
20°-30°	311.9	7.7
30°-40°	468.1	11.5
40°-50°	664.0	16.4
50°-60°	838.5	20.7
60°-70°	851.6	21.0
70°-80°	580.4	14.3
80°-90°	75.3	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°	4057.0	100.0
0°-180°	4057.0	100.0

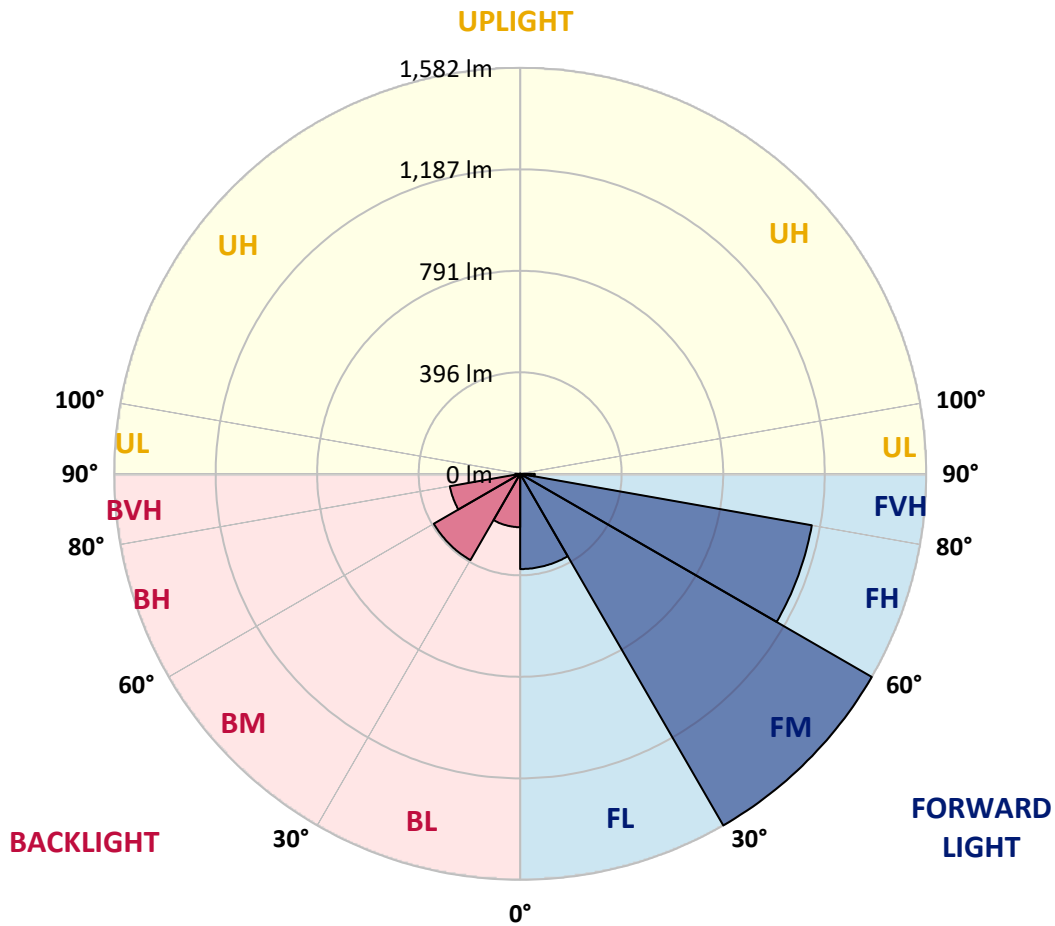


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.1	9.1			
FM (30°-60°)	1582.3	39.0			
FH (60°-80°)	1154.1	28.4			G1/1800
FVH (80°-90°)	56.7	1.4			G1/100
BL (0°-30°)	207.9	5.1	B1/500		
BM (30°-60°)	388.3	9.6	B1/1000		
BH (60°-80°)	278.0	6.9	B1/500		G1/500
BVH (80°-90°)	18.6	0.5			G1/100
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°	79°
0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
2.5°	814.8	811.0	813.3	812.5	813.5	814.8	815.3	815.9	818.1	817.8
5°	813.1	809.3	812.5	811.4	814.2	817.2	819.8	822.1	825.6	827.1
7.5°	809.5	806.9	810.1	813.3	818.5	823.0	826.6	832.0	836.9	837.8
10°	788.2	786.3	793.8	802.2	816.3	828.6	836.5	842.7	848.1	849.0
12.5°	766.1	763.8	772.1	783.5	806.5	828.6	845.3	853.5	858.2	861.0
15°	762.5	760.5	765.3	775.1	794.2	822.8	851.3	866.3	870.4	873.6
17.5°	780.1	776.4	778.4	781.8	792.9	817.4	856.0	880.9	887.2	890.6
20°	820.8	815.7	812.7	805.8	803.9	818.3	855.6	898.5	906.7	911.0
22.5°	875.1	871.7	865.3	847.9	829.0	828.8	863.8	921.1	936.3	940.4
25°	940.8	935.7	927.5	903.9	867.6	849.6	877.5	949.8	975.4	976.4
27.5°	1016.3	1008.6	997.5	966.3	917.4	882.2	898.5	982.9	1020.2	1019.8
30°	1096.0	1088.2	1076.4	1038.7	977.1	926.2	927.7	1018.5	1073.4	1071.1
32.5°	1154.1	1148.3	1146.0	1116.8	1045.7	978.1	961.2	1058.0	1139.1	1136.9
35°	1198.8	1191.2	1194.0	1179.2	1120.6	1036.3	1002.2	1105.0	1218.9	1218.7
37.5°	1243.0	1236.3	1238.7	1228.8	1190.0	1110.1	1052.2	1162.5	1317.9	1322.6
40°	1283.3	1276.2	1285.7	1276.4	1243.8	1188.7	1109.0	1227.5	1432.5	1441.5
42.5°	1307.6	1302.0	1317.6	1317.9	1290.6	1255.0	1171.5	1299.2	1565.1	1585.2
45°	1315.9	1314.0	1337.6	1342.5	1332.0	1293.4	1227.7	1377.3	1708.0	1744.0
47.5°	1306.9	1303.3	1335.9	1354.1	1362.5	1311.4	1274.3	1461.9	1853.9	1906.7
50°	1261.4	1254.3	1302.8	1341.2	1371.1	1323.2	1321.3	1559.5	2019.8	2077.5
52.5°	1179.7	1174.3	1229.4	1296.2	1352.2	1329.0	1374.1	1666.1	2177.3	2252.0
55°	1075.1	1068.1	1128.8	1215.9	1305.2	1327.1	1426.9	1785.5	2363.2	2438.9
57.5°	909.5	895.3	972.1	1075.1	1228.6	1324.7	1481.8	1904.1	2552.0	2642.8
60°	667.8	646.8	741.0	863.1	1078.8	1301.8	1549.8	2037.2	2778.6	2860.4
62.5°	388.9	376.6	438.2	552.2	813.1	1166.6	1588.0	2191.9	3001.4	3087.2
65°	301.9	298.5	303.9	312.7	452.6	873.4	1470.2	2342.8	3284.7	3344.7
67.5°	276.2	273.6	276.0	259.5	229.6	486.5	1163.1	2381.0	3588.1	3624.6
70°	245.5	242.5	250.2	236.1	180.7	221.3	751.5	2242.3	3829.5	3898.0
72.5°	200.0	196.6	214.6	208.2	152.2	142.1	377.5	1912.9	3804.2	3946.3
75°	153.7	151.7	173.2	178.5	124.0	111.8	181.1	1421.9	3347.7	3490.9
77.5°	119.3	117.8	128.8	148.3	100.0	86.7	111.4	902.0	2522.8	2547.9
80°	89.5	85.2	95.3	114.8	77.9	63.3	75.5	526.0	1594.7	1445.5
82.5°	56.0	53.9	62.2	76.6	54.9	43.6	49.1	290.6	639.1	376.4
85°	32.0	31.1	33.9	43.8	29.8	25.1	28.1	128.3	116.7	80.3
87.5°	12.9	12.4	15.5	19.5	10.9	9.2	9.9	30.9	25.8	23.8
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°
814.4	0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
817.6	2.5°	816.8	816.8	813.8	809.0	803.7	800.2	794.7	793.2	787.4	785.6
824.9	5°	826.6	824.9	815.7	802.4	784.1	767.4	749.0	737.4	721.1	715.3
839.3	7.5°	839.1	834.4	818.5	789.3	751.1	713.5	674.5	644.9	616.5	606.5
851.1	10°	850.5	843.8	816.8	765.7	699.6	634.6	572.3	528.8	495.7	482.2
864.2	12.5°	861.8	849.6	805.4	726.4	626.4	538.2	471.9	438.0	417.6	401.3
874.9	15°	872.6	855.4	787.8	673.8	546.2	456.7	407.7	380.7	364.4	353.7
890.6	17.5°	885.0	860.3	761.4	607.1	469.8	400.2	360.3	344.0	340.8	339.5
912.0	20°	902.4	864.8	726.6	532.4	413.5	355.2	334.6	333.1	332.8	332.2
937.8	22.5°	921.1	870.2	680.7	464.6	365.7	327.0	323.4	320.4	318.5	318.3
968.9	25°	943.2	871.9	623.2	409.0	324.9	313.7	309.5	304.9	303.7	303.7
1004.3	27.5°	964.6	866.1	556.2	360.7	301.9	301.5	295.9	294.4	294.2	294.9
1044.7	30°	986.1	855.2	489.7	316.1	288.6	288.6	286.7	287.8	288.6	290.8
1100.0	32.5°	1015.1	843.6	434.1	283.1	277.0	274.9	276.8	279.0	279.8	282.6
1172.8	35°	1057.5	835.4	389.9	265.0	265.0	262.2	263.3	262.9	261.0	259.7
1260.8	37.5°	1113.8	835.0	353.4	256.7	254.9	254.5	254.7	251.9	244.4	235.4
1367.2	40°	1181.4	846.6	325.3	250.9	249.6	252.2	250.9	243.4	222.8	207.1
1498.1	42.5°	1272.1	879.6	307.3	243.8	247.6	250.9	245.7	219.7	205.8	195.3
1647.3	45°	1379.0	933.3	298.1	236.3	244.0	247.9	223.0	211.6	200.4	187.8
1809.9	47.5°	1500.0	1000.9	295.9	229.2	235.8	238.2	213.3	208.2	195.5	181.8
1973.5	50°	1631.8	1080.9	301.7	220.8	224.0	215.9	210.1	205.4	192.3	178.8
2141.1	52.5°	1768.1	1169.1	313.3	209.4	212.2	203.2	208.8	204.7	190.3	172.1
2314.2	55°	1902.0	1258.0	324.5	196.1	200.2	191.9	205.2	202.2	181.6	160.9
2499.0	57.5°	2038.0	1346.4	335.4	184.3	188.6	180.9	199.4	195.3	171.7	150.6
2700.7	60°	2179.5	1432.2	340.6	173.0	176.0	170.8	190.6	183.5	160.5	140.1
2899.0	62.5°	2311.9	1503.7	332.2	161.6	163.5	161.4	179.0	169.5	149.4	128.3
3105.7	65°	2444.7	1546.2	306.4	150.4	150.9	149.8	162.7	154.5	136.3	118.0
3286.6	67.5°	2565.1	1570.0	265.5	138.4	137.3	136.9	147.4	138.2	123.6	107.7
3424.1	70°	2590.6	1509.5	202.8	124.3	124.3	123.2	130.7	121.2	109.7	96.8
3325.6	72.5°	2366.2	1269.8	144.0	108.2	109.9	107.7	114.0	106.0	95.5	86.9
2866.2	75°	1908.0	931.1	104.7	91.6	94.6	91.0	96.8	91.2	82.2	82.0
1975.2	77.5°	1311.0	575.8	76.0	75.5	77.7	73.0	79.6	76.6	68.5	64.8
859.7	80°	559.5	229.6	55.4	58.4	58.4	54.1	61.8	62.7	55.6	53.9
165.9	82.5°	111.4	65.2	38.8	40.1	37.8	36.5	43.8	48.5	67.0	74.5
50.0	85°	33.5	24.0	23.4	21.9	19.3	19.5	25.8	48.7	60.1	34.3
16.5	87.5°	9.2	6.0	6.2	4.9	4.1	5.4	8.8	36.9	20.2	8.6
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>
814.4
788.4
719.6
607.7
485.2
406.7
355.6
340.4
334.3
320.6
304.9
296.6
292.3
285.0
262.7
235.6
206.7
194.9
186.9
180.7
177.3
170.8
159.9
150.2
139.5
128.1
116.7
106.4
96.4
<i>84.3</i>
73.8
60.7
53.9
74.7
29.6
7.3
0.0

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