

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: P938912

Luminaire Tested: **GALN-SB1B-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

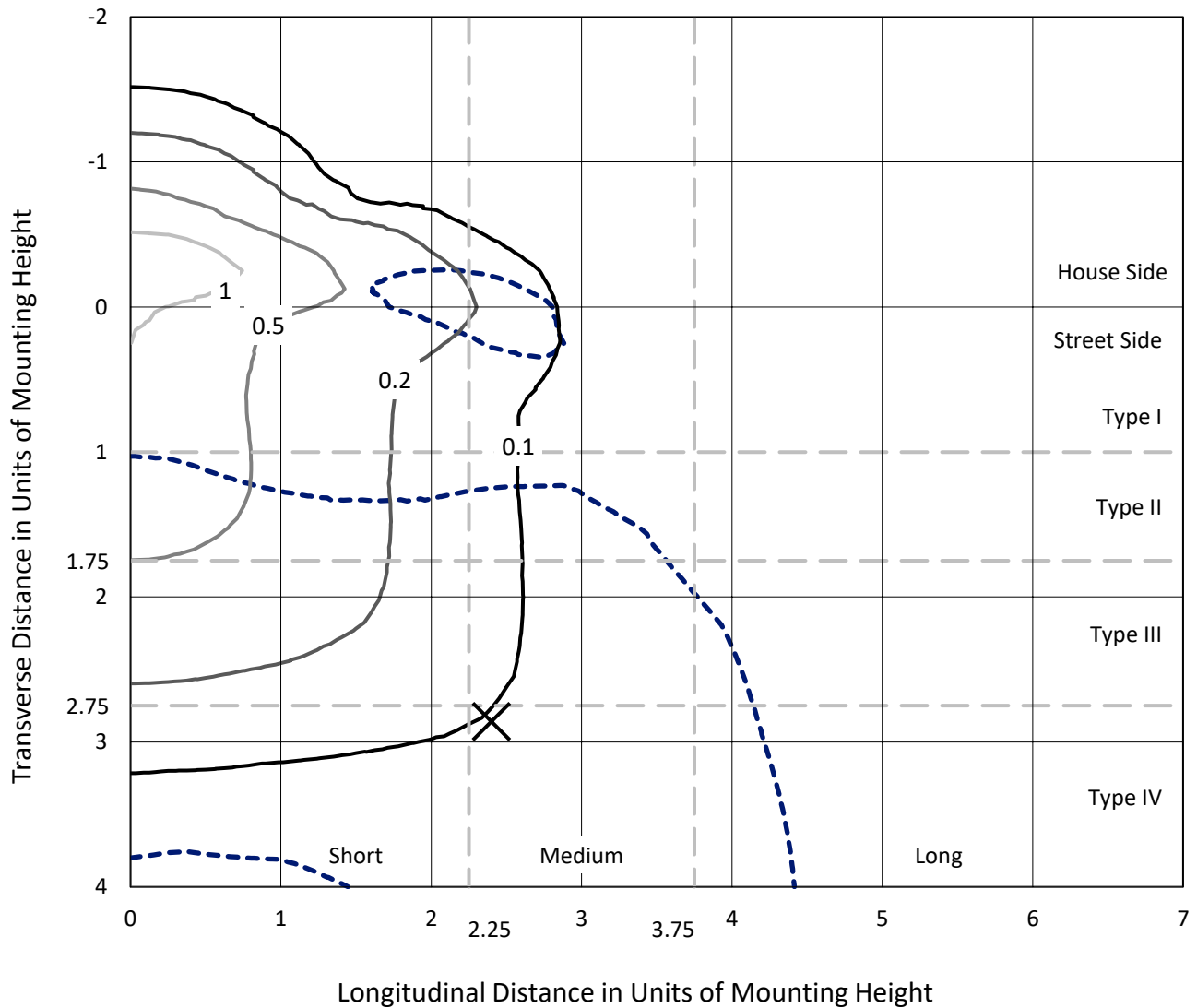
Lumens per Lamp: N/A  
Luminaire Lumens: 5584 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

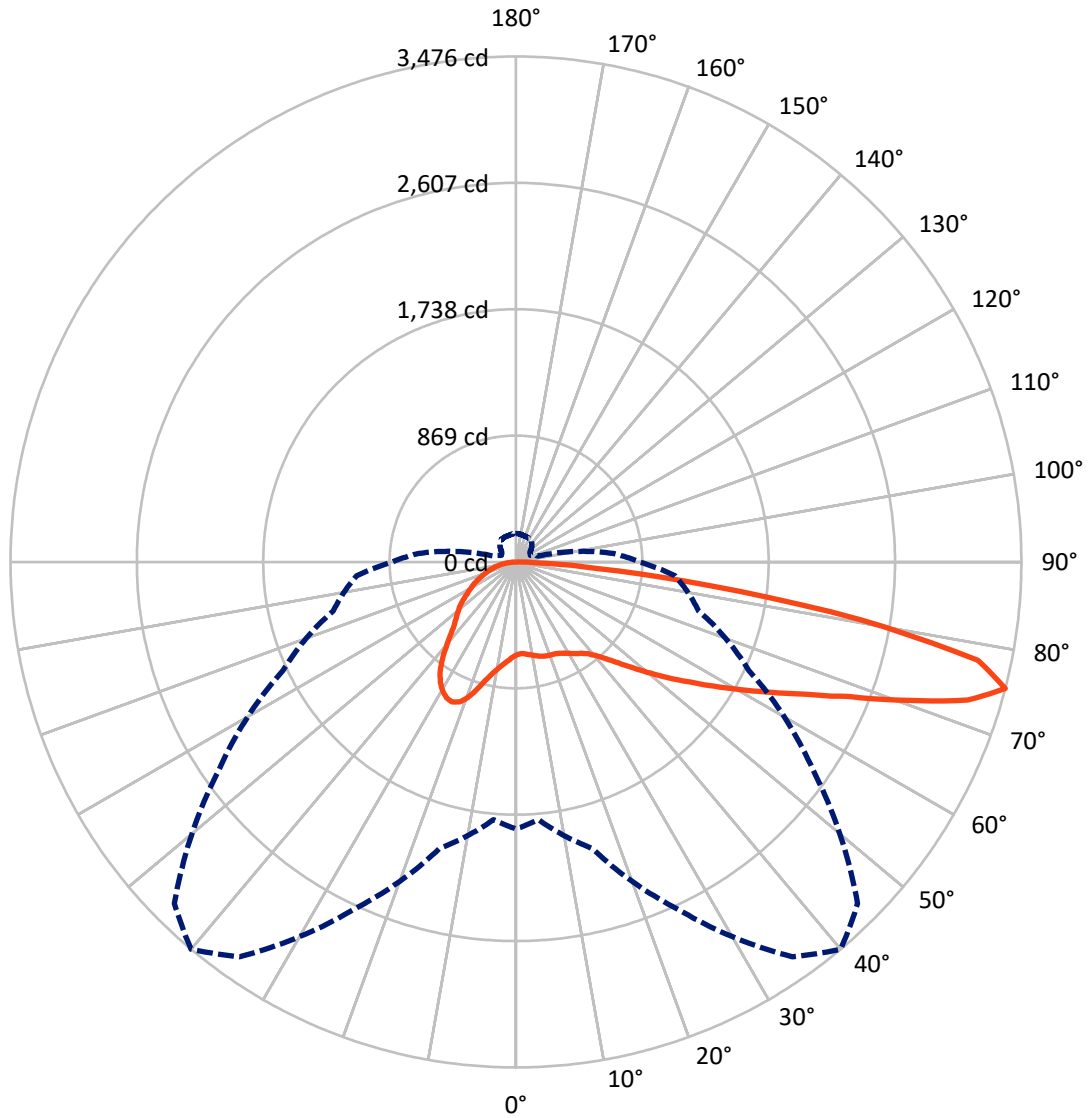
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1730.1	0.0	1730.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	3853.9	0.0	3853.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5584.0	0.0	5584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	1.1
10°-20°	214.0	3.8
20°-30°	390.7	7.0
30°-40°	554.2	9.9
40°-50°	748.3	13.4
50°-60°	1006.7	18.0
60°-70°	1277.7	22.9
70°-80°	1159.6	20.8
80°-90°	169.0	3.0
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°	5584.0	100.0
0°-180°	5584.0	100.0

**Coefficient of Utilization**



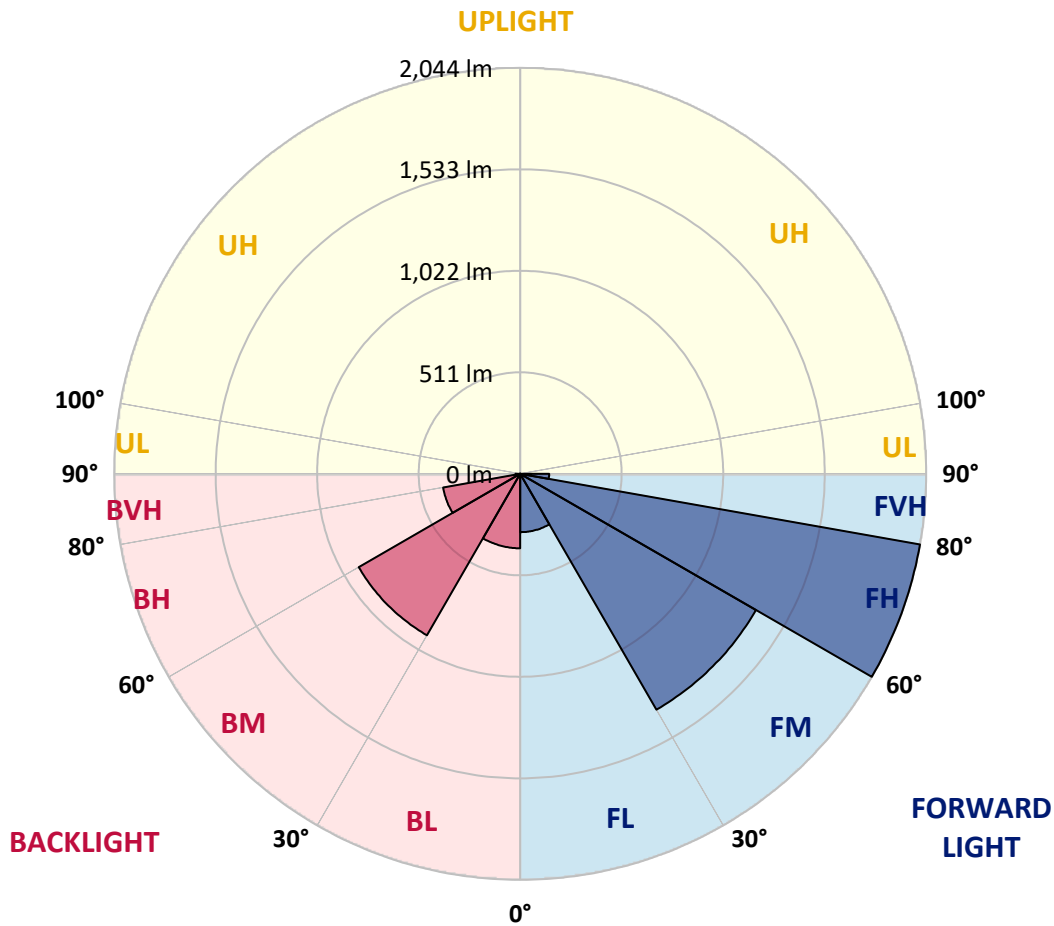
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.7	5.3			
FM (30°-60°)	1370.7	24.5			
FH (60°-80°)	2043.7	36.6			G2/5000
FVH (80°-90°)	145.8	2.6			G2/225
BL (0°-30°)	374.8	6.7	B1/500		
BM (30°-60°)	938.4	16.8	B1/1000		
BH (60°-80°)	393.6	7.0	B1/500		G1/500
BVH (80°-90°)	23.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5
2.5°	628.8	632.3	631.4	630.2	630.2	630.5	630.2	632.3	634.4	636.5
5°	635.3	638.8	637.1	635.6	634.4	634.1	633.2	632.9	634.1	636.8
7.5°	648.0	651.6	648.9	646.2	643.9	642.7	641.5	639.7	638.8	640.3
10°	662.2	665.8	662.5	657.8	653.9	652.5	651.3	649.5	648.3	649.2
12.5°	676.4	680.0	675.6	669.0	664.0	663.1	661.6	661.0	660.8	660.5
15°	689.8	692.7	687.1	679.4	674.1	672.6	671.1	672.0	673.5	675.3
17.5°	700.1	703.1	694.8	684.7	679.7	679.1	678.2	681.2	685.3	689.8
20°	709.6	712.6	701.9	688.3	682.4	682.4	682.7	688.9	694.8	701.3
22.5°	722.9	725.3	712.3	693.6	685.0	685.6	688.0	694.2	701.6	710.5
25°	742.8	744.6	728.6	703.7	693.9	695.7	697.8	700.7	707.8	718.2
27.5°	774.8	776.3	755.2	721.5	706.7	709.6	712.6	710.5	713.8	722.6
30°	819.8	820.7	794.0	749.3	728.3	729.8	730.3	721.8	715.5	722.6
32.5°	873.1	872.8	841.1	783.1	752.9	751.4	746.3	729.5	714.9	721.2
35°	955.7	952.5	911.6	830.5	780.7	771.5	759.7	738.1	717.9	719.7
37.5°	1092.6	1082.5	1025.9	908.1	822.2	798.8	781.3	752.0	724.4	719.1
40°	1246.9	1234.1	1171.9	1014.4	884.4	846.7	818.6	771.8	735.1	721.8
42.5°	1429.9	1411.8	1344.9	1139.7	963.1	908.6	866.3	797.0	750.8	730.3
45°	1654.7	1630.7	1535.9	1280.9	1062.4	989.8	933.2	835.2	774.8	746.9
47.5°	1881.9	1887.8	1753.0	1442.6	1181.4	1089.9	1017.0	892.6	809.7	773.6
50°	2123.2	2127.4	1968.9	1621.8	1316.5	1203.0	1111.2	956.9	858.3	811.5
52.5°	2311.6	2312.2	2165.0	1809.3	1457.1	1327.4	1212.8	1030.4	914.6	861.8
55°	2429.5	2428.0	2302.4	1986.7	1618.9	1458.0	1325.4	1113.9	983.3	921.1
57.5°	2515.1	2510.6	2397.2	2139.2	1791.2	1612.3	1452.7	1208.7	1064.4	991.6
60°	2547.6	2545.0	2461.5	2271.0	1972.5	1782.9	1599.6	1314.7	1156.5	1074.8
62.5°	2560.1	2565.1	2524.5	2398.7	2166.5	1971.9	1761.0	1441.4	1260.2	1169.0
65°	2603.9	2613.1	2604.8	2565.7	2385.6	2193.1	1975.1	1592.2	1373.3	1270.0
67.5°	2690.7	2699.9	2703.4	2765.6	2653.4	2468.9	2242.3	1780.0	1505.7	1374.8
70°	2688.6	2685.9	2748.7	2924.7	2988.6	2850.6	2602.4	2011.0	1663.6	1461.9
72.5°	2447.2	2425.9	2574.3	2922.9	3267.6	3249.3	3042.2	2308.9	1799.8	1472.5
75°	1835.9	1779.1	2041.2	2634.1	3314.1	3475.5	3321.8	2493.7	1767.5	1301.1
77.5°	785.1	728.0	1036.9	1950.0	2966.1	3249.0	3065.3	2175.6	1410.9	860.4
80°	205.5	205.2	313.3	884.1	2017.2	2399.3	2104.9	1405.0	806.2	307.4
82.5°	85.0	82.9	115.2	343.9	985.6	1346.4	1098.8	626.7	291.1	83.2
85°	31.7	31.4	56.0	118.8	347.7	555.3	401.9	160.2	72.6	40.6
87.5°	8.9	8.6	12.1	41.2	84.7	128.5	68.7	26.4	20.4	16.0
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°
638.5	0°	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5	638.5
639.7	2.5°	640.6	642.1	644.8	646.8	649.5	652.5	656.6	659.3	661.9	663.7
641.2	5°	643.3	646.5	653.3	660.2	668.2	675.6	684.1	690.4	695.4	696.9
646.5	7.5°	649.2	654.5	666.1	677.6	690.4	702.5	714.9	725.6	734.2	737.5
656.0	10°	659.6	666.7	683.0	699.3	716.1	734.8	750.8	766.2	778.3	783.4
667.3	12.5°	672.6	681.5	702.8	725.3	748.7	774.5	795.2	814.2	829.3	836.1
683.0	15°	689.5	701.0	728.3	758.5	792.8	828.7	855.0	876.1	892.9	901.2
699.3	17.5°	707.8	723.2	757.6	803.2	852.4	899.5	930.3	945.7	963.1	971.1
714.4	20°	725.6	744.6	793.7	860.1	925.5	975.6	1000.5	1004.6	1005.8	1006.7
728.6	22.5°	744.0	769.4	839.0	931.7	1001.9	1036.6	1040.1	1022.4	997.5	985.9
742.5	25°	764.1	797.9	898.3	1010.8	1067.7	1071.8	1044.6	1001.3	954.3	932.6
753.7	27.5°	783.7	830.8	969.4	1086.3	1115.1	1078.6	1020.0	958.7	901.8	879.0
761.7	30°	803.2	868.4	1047.8	1152.4	1136.7	1061.8	981.2	912.8	855.6	831.6
768.9	32.5°	823.1	912.2	1138.2	1200.1	1132.8	1025.9	932.9	861.3	810.9	785.7
775.1	35°	845.6	966.1	1223.8	1226.1	1107.1	973.2	869.3	799.7	755.8	735.7
782.5	37.5°	874.9	1034.5	1299.3	1232.7	1062.1	895.9	790.2	726.8	690.7	681.5
793.4	40°	911.3	1116.8	1357.0	1222.3	995.4	802.0	703.7	653.1	632.6	634.7
808.2	42.5°	958.7	1209.0	1397.6	1195.6	902.7	705.2	627.9	605.4	615.1	623.4
830.5	45°	1020.3	1304.6	1422.8	1150.3	797.9	623.1	583.2	588.5	595.9	596.8
866.3	47.5°	1099.1	1401.5	1439.4	1081.9	691.0	565.4	554.7	555.9	554.4	548.2
919.9	50°	1197.4	1495.6	1454.2	991.3	600.0	529.3	515.0	510.9	490.5	470.3
991.3	52.5°	1309.4	1582.1	1460.4	878.7	529.3	499.0	475.9	449.9	411.7	405.5
1081.0	55°	1433.7	1662.1	1444.4	740.4	469.7	460.2	425.3	393.9	389.8	384.4
1199.2	57.5°	1582.4	1748.3	1411.8	586.1	408.7	414.9	380.9	384.4	377.0	368.7
1351.1	60°	1745.0	1837.4	1354.7	445.4	345.6	358.4	369.3	369.0	367.0	360.1
1511.3	62.5°	1891.3	1896.1	1242.1	341.2	290.2	314.5	344.4	344.1	342.4	338.5
1678.7	65°	1978.4	1887.2	1054.4	268.6	244.6	278.4	310.7	313.0	313.3	313.0
1804.6	67.5°	1963.0	1783.2	796.7	213.8	207.0	241.7	277.2	280.5	282.8	283.4
1820.5	70°	1788.9	1554.9	519.5	170.6	173.6	209.4	245.5	248.8	250.9	253.2
1579.8	72.5°	1394.4	1143.2	297.4	138.0	144.2	181.6	214.1	218.0	219.2	223.6
1099.4	75°	849.7	672.3	160.5	108.7	118.5	155.2	183.0	187.5	189.5	194.9
539.9	77.5°	404.0	291.1	91.5	84.7	95.4	126.8	154.6	159.6	154.0	157.0
149.0	80°	136.5	108.1	57.8	64.6	72.9	98.9	123.8	128.8	117.0	116.4
49.5	82.5°	47.7	43.8	36.7	42.9	47.1	70.8	93.6	100.1	87.1	86.8
22.2	85°	18.7	17.8	20.4	23.4	28.1	43.5	61.6	64.9	53.6	43.2
6.5	87.5°	3.9	4.1	5.0	5.3	8.6	15.1	22.2	27.2	21.6	18.4
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>
638.5
662.5
697.5
737.8
783.7
836.1
900.6
970.8
1009.0
989.2
935.9
881.7
834.3
789.0
740.1
688.0
641.8
631.1
602.7
552.9
473.0
407.5
385.3
367.2
357.8
337.0
313.0
284.0
254.4
225.4
195.5
154.6
115.2
82.6
42.6
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