

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: P945438

Luminaire Tested: **GALN-SB1B-850-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5377 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

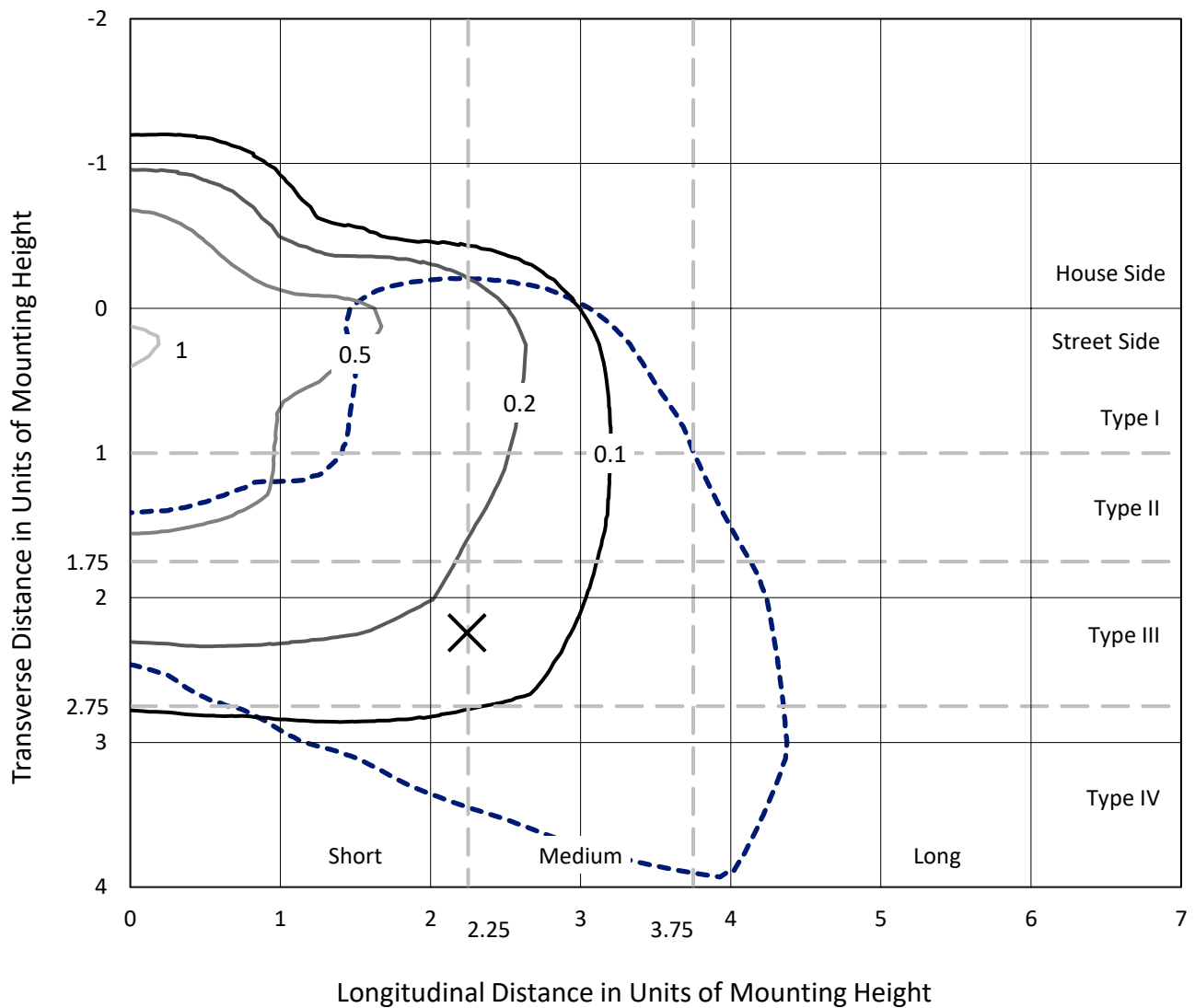
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

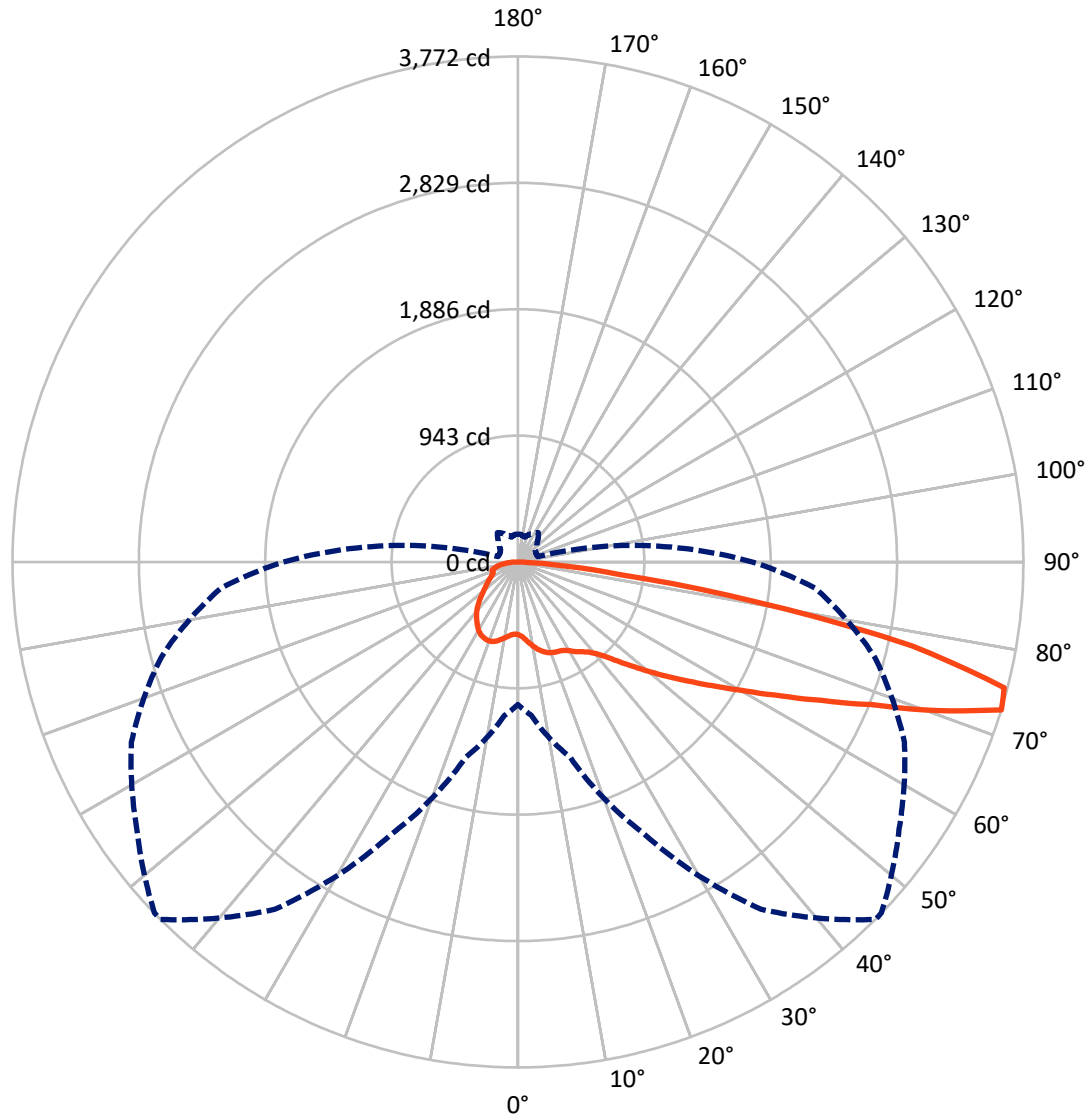
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1215.6	0.0	1215.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4161.4	0.0	4161.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5377.0	0.0	5377.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	1.0
10°-20°	184.1	3.4
20°-30°	320.2	6.0
30°-40°	459.0	8.5
40°-50°	646.4	12.0
50°-60°	990.0	18.4
60°-70°	1434.2	26.7
70°-80°	1145.3	21.3
80°-90°	142.6	2.7
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°	5377.0	100.0
0°-180°	5377.0	100.0



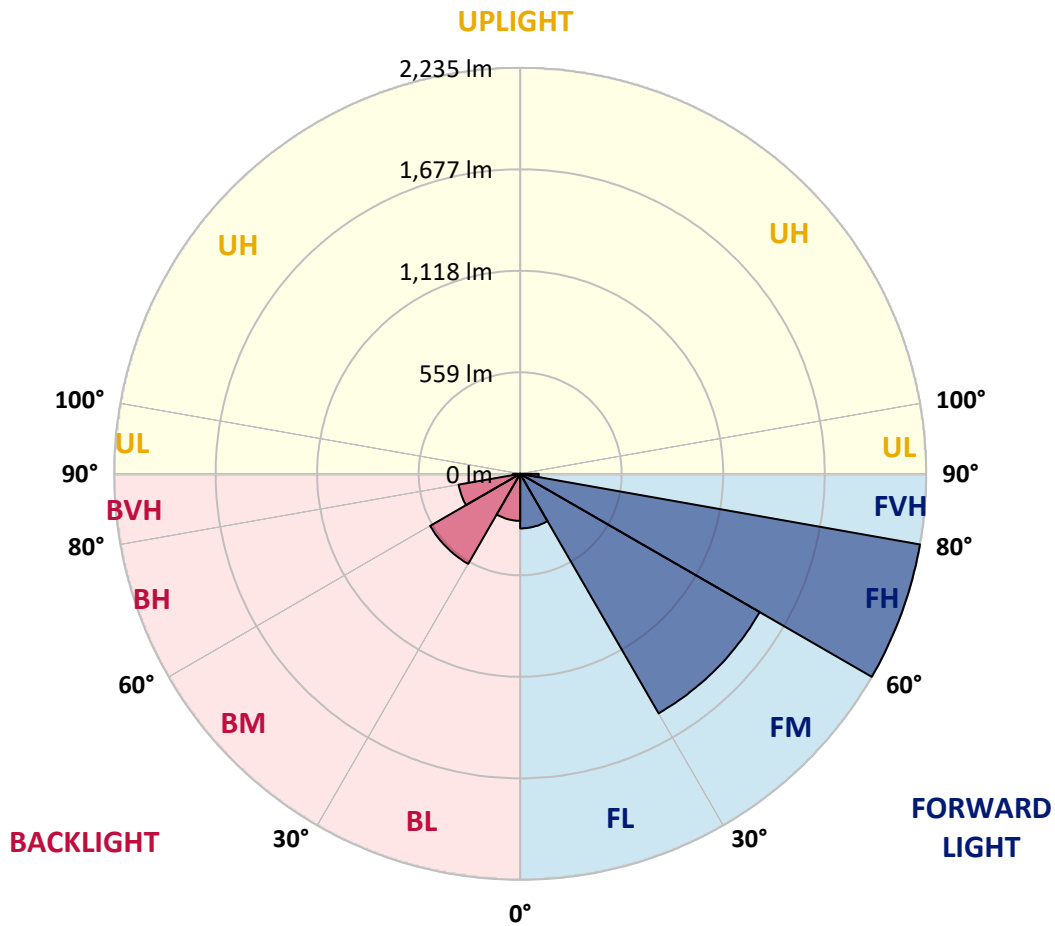
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.7	5.6			
FM (30°-60°)	1523.0	28.3			
FH (60°-80°)	2235.4	41.6			G2/5000
FVH (80°-90°)	102.3	1.9			G2/225
BL (0°-30°)	258.8	4.8	B1/500		
BM (30°-60°)	572.4	10.6	B1/1000		
BH (60°-80°)	344.1	6.4	B1/500		G1/500
BVH (80°-90°)	40.3	0.7			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	563.7	567.4	564.0	560.8	559.4	555.7	555.5	553.2	551.8	547.8
5°	603.1	607.9	602.2	596.0	590.3	581.2	580.1	573.6	566.2	557.7
7.5°	647.5	651.8	645.3	635.9	626.0	611.0	610.7	598.8	587.2	572.7
10°	686.3	692.0	683.2	670.5	658.0	641.0	639.0	625.4	610.7	592.0
12.5°	720.6	724.6	716.1	700.5	686.0	669.0	666.5	651.5	635.1	613.8
15°	747.8	752.9	741.6	724.9	709.6	692.8	690.6	677.0	660.6	638.2
17.5°	765.6	769.9	758.3	739.6	724.9	711.0	709.3	697.9	683.5	660.8
20°	772.4	777.0	764.8	745.8	732.2	721.5	720.6	712.4	702.5	681.8
22.5°	779.2	783.5	767.6	747.8	735.9	729.1	728.8	723.4	719.5	702.5
25°	806.7	807.8	786.6	758.0	741.0	735.0	734.8	734.5	736.2	722.9
27.5°	830.5	830.2	812.1	785.2	758.8	746.4	746.1	748.9	754.3	743.3
30°	865.3	862.2	840.7	812.7	788.6	769.3	767.6	765.1	769.3	760.5
32.5°	939.3	929.4	894.5	844.7	813.2	798.5	796.2	780.4	782.1	776.7
35°	1045.2	1032.2	985.7	905.3	843.8	822.9	821.7	801.6	798.2	793.4
37.5°	1171.3	1155.1	1101.0	993.1	896.5	851.2	849.5	831.4	817.5	812.4
40°	1297.9	1277.5	1232.7	1100.2	974.1	898.5	893.1	865.6	849.8	841.3
42.5°	1420.8	1403.8	1365.6	1220.3	1069.9	967.6	955.7	908.7	896.8	888.9
45°	1529.6	1514.3	1486.2	1348.6	1182.0	1061.6	1050.0	973.3	969.6	969.6
47.5°	1618.0	1614.6	1584.8	1479.4	1314.3	1168.7	1148.6	1063.1	1073.0	1088.3
50°	1716.0	1706.6	1674.9	1608.3	1469.8	1291.4	1274.9	1173.2	1210.4	1252.3
52.5°	1806.0	1811.1	1775.7	1742.6	1645.4	1428.2	1399.3	1303.3	1383.4	1452.8
55°	1898.7	1898.9	1889.0	1884.5	1829.5	1579.4	1547.7	1459.6	1587.1	1673.2
57.5°	1985.6	1986.2	2000.9	2040.9	2043.1	1753.9	1717.9	1651.7	1813.4	1901.2
60°	2063.2	2067.2	2107.4	2200.9	2230.9	1953.9	1919.9	1878.6	2047.4	2135.7
62.5°	2089.3	2103.7	2193.2	2326.1	2416.5	2199.2	2165.8	2141.1	2293.2	2375.4
65°	2045.1	2078.2	2251.3	2429.5	2607.4	2490.7	2457.5	2430.6	2548.7	2626.1
67.5°	1936.6	1979.4	2247.9	2538.0	2839.1	2841.3	2810.5	2747.3	2822.6	2852.4
70°	1650.8	1714.8	2049.9	2578.5	3105.0	3320.9	3291.1	3128.6	3096.0	2952.1
72.5°	1063.6	1149.7	1509.5	2245.1	3164.2	3772.1	3770.4	3472.7	3182.4	2758.3
75°	388.1	440.7	701.3	1409.2	2656.1	3749.2	3760.2	3413.8	2905.1	2130.6
77.5°	141.3	154.7	228.9	541.6	1633.5	3008.2	3031.1	2729.2	2067.8	1069.3
80°	74.2	81.6	117.3	210.2	699.9	1786.5	1822.5	1621.9	971.9	322.1
82.5°	41.1	44.5	65.7	114.2	315.3	763.9	785.5	640.7	341.9	136.5
85°	22.1	23.5	30.9	62.3	154.1	264.8	270.8	191.5	136.2	80.2
87.5°	6.5	7.9	10.2	19.8	60.3	59.5	60.9	38.0	53.8	40.5
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°
542.4	0°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
546.7	2.5°	545.0	544.1	541.0	539.6	537.9	537.6	539.0	539.3	539.6	539.9
552.9	5°	550.1	547.2	544.4	542.7	543.3	543.6	546.4	548.4	549.8	550.9
564.5	7.5°	560.0	557.7	552.9	552.6	553.5	556.0	559.7	564.2	566.8	568.8
579.5	10°	574.7	570.5	564.8	565.7	567.4	571.0	578.7	582.4	586.6	590.3
598.0	12.5°	589.7	586.1	579.5	580.1	582.9	589.5	596.8	601.4	604.2	607.0
617.8	15°	609.3	602.8	595.7	595.7	600.8	607.9	611.3	614.9	616.6	619.8
639.0	17.5°	629.4	620.9	611.5	611.0	617.2	620.6	622.6	623.2	623.7	627.1
659.7	20°	649.5	640.2	626.8	625.7	627.1	626.6	626.3	625.7	626.6	630.8
680.9	22.5°	669.3	658.6	640.2	635.1	631.1	625.7	625.4	625.1	625.7	630.0
703.9	25°	692.6	679.5	654.9	639.6	626.3	618.9	619.8	620.0	620.6	624.0
727.7	27.5°	717.8	703.3	668.5	638.2	614.1	609.0	607.6	608.4	610.4	615.8
751.5	30°	743.0	726.0	680.9	632.5	598.8	591.7	587.2	589.2	595.4	600.8
772.2	32.5°	765.9	748.9	690.9	620.0	579.3	568.2	562.3	564.8	571.0	573.0
795.1	35°	792.8	773.6	695.1	600.2	558.0	541.0	533.1	529.4	532.5	530.5
822.0	37.5°	822.9	802.7	694.5	574.2	533.1	513.5	502.5	488.6	482.1	475.3
861.7	40°	867.3	838.4	687.7	542.7	502.2	484.4	464.5	441.0	426.3	413.0
925.7	42.5°	927.9	888.0	675.3	508.2	467.4	450.7	423.8	396.3	373.0	351.0
1022.8	45°	1018.3	952.9	659.7	471.3	429.7	413.3	384.1	353.2	326.9	298.6
1160.8	47.5°	1148.6	1040.1	645.0	429.4	390.0	375.0	348.7	320.1	288.9	261.4
1360.2	50°	1327.6	1165.3	631.4	388.6	351.0	339.6	318.7	289.5	258.0	236.0
1593.9	52.5°	1555.4	1335.6	625.7	349.3	314.4	310.2	293.5	266.3	236.5	217.8
1866.4	55°	1816.8	1539.2	625.7	311.6	282.4	283.8	272.2	247.0	221.2	204.5
2147.4	57.5°	2083.6	1745.4	614.4	276.7	255.2	261.2	253.8	231.7	208.5	191.2
2442.8	60°	2329.5	1918.2	568.5	245.0	231.1	240.5	235.7	216.7	188.4	173.9
2689.8	62.5°	2518.4	2015.6	480.1	219.8	211.3	222.1	219.5	196.9	184.7	178.7
2892.6	65°	2613.0	1999.8	367.1	197.4	194.6	211.3	205.9	205.1	195.4	188.6
2958.6	67.5°	2555.0	1863.3	266.3	181.0	185.0	201.4	222.1	225.5	207.6	194.3
2772.8	70°	2300.3	1616.3	198.3	165.4	172.8	201.7	253.2	236.0	203.7	188.1
2223.8	72.5°	1750.0	1205.3	153.8	149.0	156.9	203.1	267.1	231.1	192.3	207.9
1385.4	75°	1000.7	661.7	123.5	128.9	137.1	189.8	260.0	218.7	183.5	190.9
548.9	77.5°	381.5	254.4	102.0	109.1	110.2	165.7	248.7	217.8	174.8	170.5
164.6	80°	132.3	99.4	84.4	86.7	85.3	147.3	238.5	189.5	143.0	128.0
68.0	82.5°	54.1	49.6	66.8	64.0	60.6	114.4	192.6	154.9	117.0	103.4
32.9	85°	23.5	31.4	44.2	38.8	35.1	79.3	154.4	131.1	98.9	85.3
10.8	87.5°	4.8	11.9	18.7	17.6	18.1	53.0	109.6	93.2	70.0	52.4
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>
542.4
541.0
551.5
569.3
589.5
608.1
620.9
628.3
632.5
632.8
628.5
621.2
606.7
580.1
536.8
479.6
413.8
349.0
295.2
258.3
234.5
216.4
202.8
188.4
171.7
176.8
186.4
192.0
185.5
206.2
190.9
155.5
123.8
102.3
85.0
41.1
0.0

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