

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: P946610

Luminaire Tested: **GALN-SB2A-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

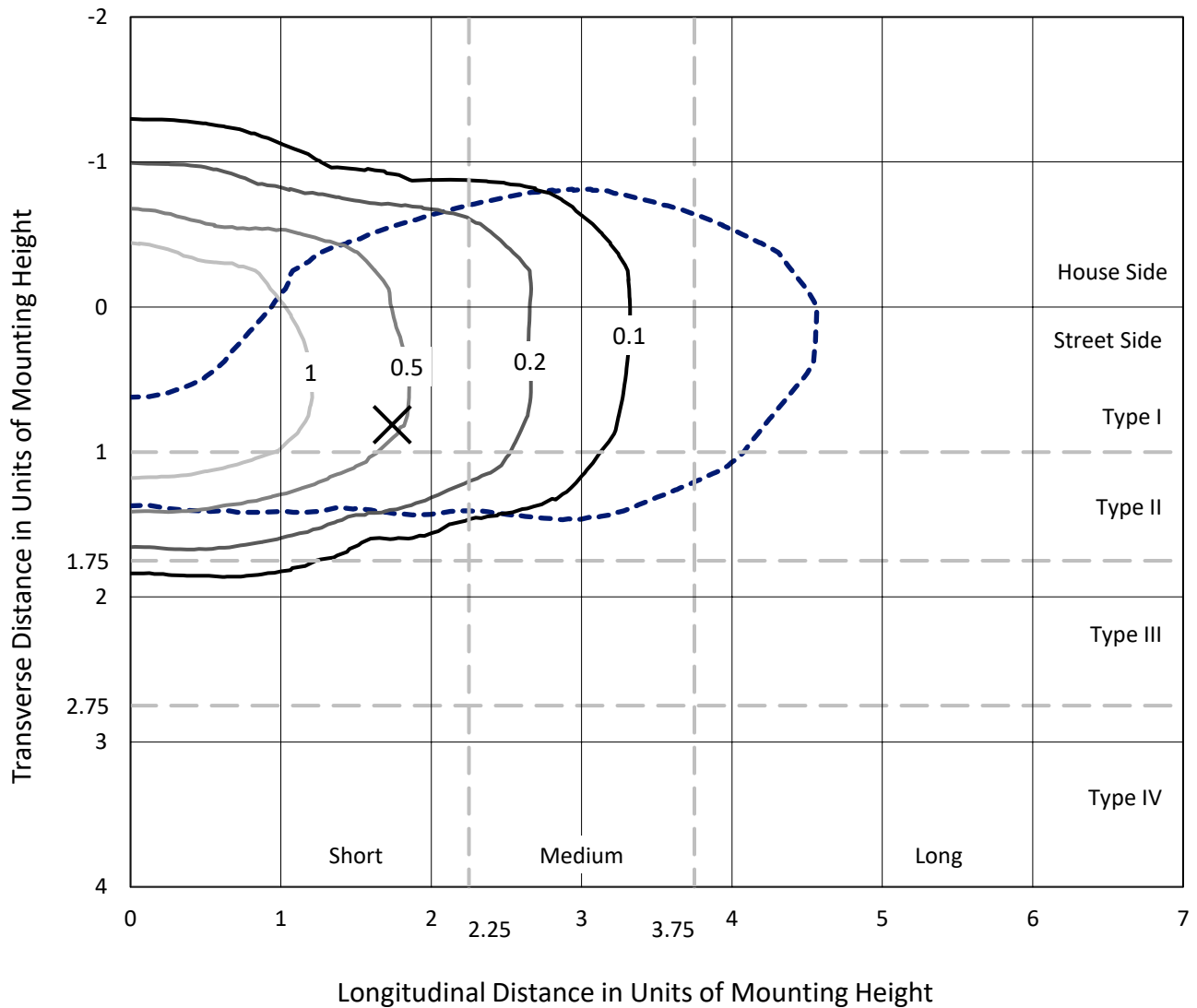
Lumens per Lamp: N/A  
Luminaire Lumens: 6324 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

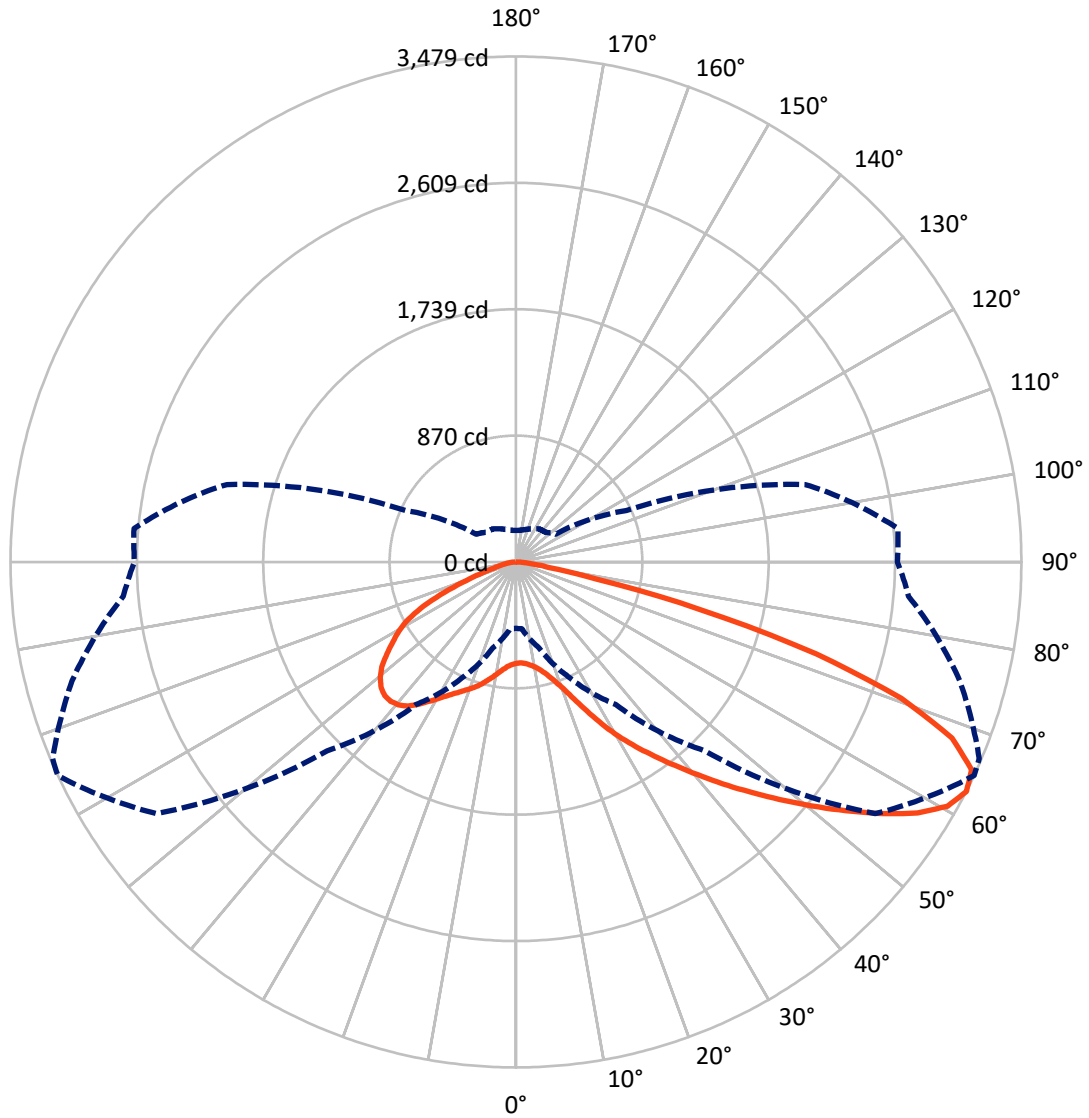
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1995.6	0.0	1995.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4328.4	0.0	4328.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6324.0	0.0	6324.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	1.1
10°-20°	235.6	3.7
20°-30°	477.7	7.6
30°-40°	826.7	13.1
40°-50°	1251.0	19.8
50°-60°	1466.7	23.2
60°-70°	1229.7	19.4
70°-80°	678.9	10.7
80°-90°	88.2	1.4
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°	6324.0	100.0
0°-180°	6324.0	100.0

**Coefficient of Utilization**



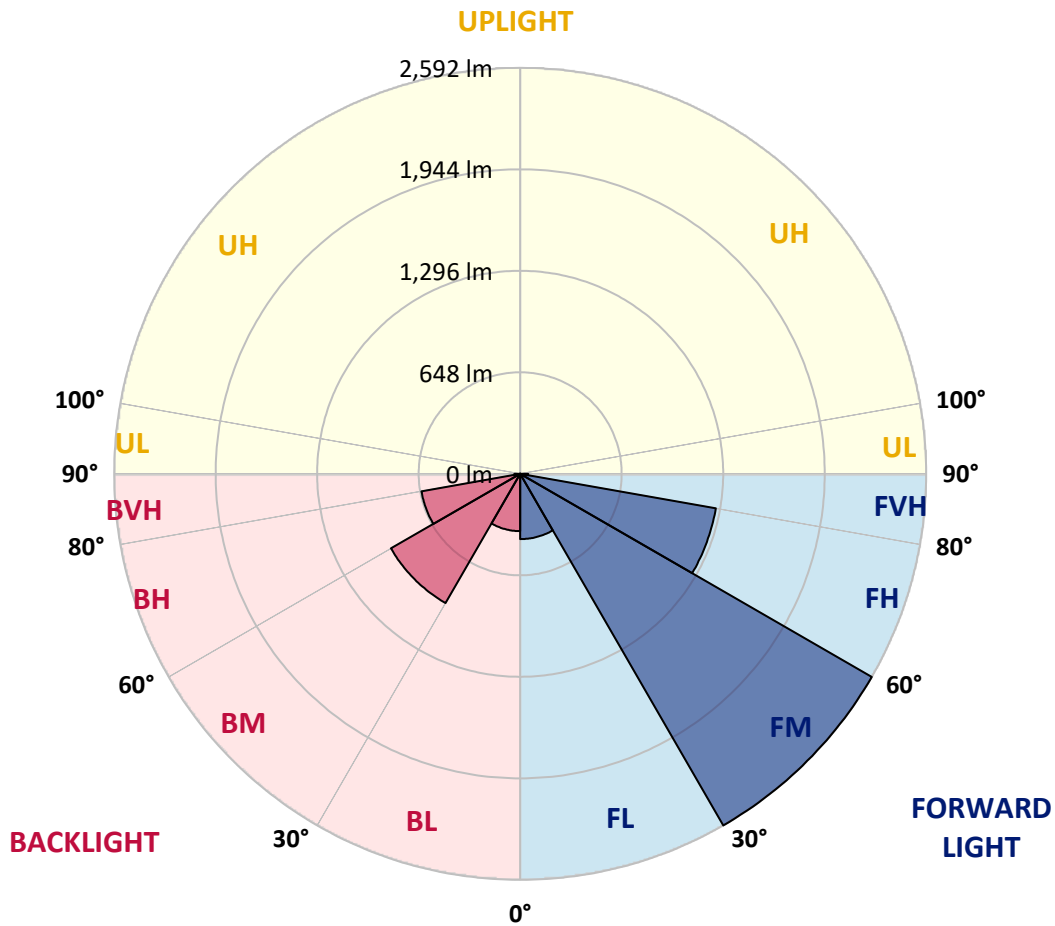
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.8	6.6			
FM (30°-60°)	2591.8	41.0			
FH (60°-80°)	1268.4	20.1			G1/1800
FVH (80°-90°)	51.4	0.8			G1/100
BL (0°-30°)	366.0	5.8	B1/500		
BM (30°-60°)	952.7	15.1	B1/1000		
BH (60°-80°)	640.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	692.3	690.3	692.0	692.0	692.6	692.3	694.6	695.2	696.2	698.2
5°	685.4	685.1	688.0	690.6	693.3	695.6	698.5	702.8	703.4	705.7
7.5°	683.1	681.1	685.7	689.0	695.2	700.8	708.7	715.9	718.9	719.8
10°	700.8	697.5	701.8	703.8	709.0	714.6	723.8	735.3	738.5	742.5
12.5°	731.0	727.4	733.6	736.6	741.5	746.4	752.7	763.8	765.4	772.7
15°	772.3	768.1	772.0	775.6	783.8	788.4	794.7	805.5	805.5	811.1
17.5°	828.4	822.9	825.8	827.1	832.4	839.3	849.8	859.3	864.2	862.2
20°	912.1	905.2	905.2	898.7	896.7	902.3	916.0	929.2	934.4	924.2
22.5°	1037.8	1027.9	1022.3	1000.0	991.2	991.8	1005.6	1021.7	1026.0	1007.9
25°	1197.6	1182.1	1174.6	1141.8	1121.8	1104.4	1115.2	1135.9	1141.8	1119.5
27.5°	1357.3	1358.3	1351.1	1311.7	1278.6	1246.8	1241.2	1262.8	1269.1	1243.8
30°	1581.4	1558.1	1544.4	1497.1	1449.9	1405.2	1382.3	1391.1	1392.8	1362.6
32.5°	1774.7	1768.8	1739.2	1697.9	1637.2	1567.3	1528.9	1514.8	1512.2	1469.2
35°	1994.8	1991.5	1960.4	1911.2	1845.5	1748.4	1679.2	1638.8	1635.6	1575.2
37.5°	2218.6	2218.6	2188.1	2134.3	2066.4	1945.0	1839.6	1775.7	1765.2	1686.4
40°	2397.1	2386.2	2391.8	2369.2	2291.4	2162.5	2017.8	1924.9	1910.8	1816.3
42.5°	2498.5	2494.8	2528.3	2553.6	2521.8	2418.7	2214.0	2086.7	2067.0	1959.4
45°	2521.1	2517.2	2576.9	2669.4	2714.0	2671.7	2427.3	2257.0	2233.0	2109.0
47.5°	2468.9	2461.1	2548.7	2694.7	2837.7	2912.2	2658.2	2441.7	2406.9	2254.7
50°	2312.1	2304.6	2437.1	2631.0	2879.4	3075.6	2908.9	2637.6	2584.4	2410.9
52.5°	1971.2	1974.8	2182.5	2448.9	2824.6	3177.3	3124.8	2843.9	2780.0	2570.6
55°	1535.5	1543.4	1798.6	2091.9	2605.4	3161.9	3272.1	3056.5	2992.9	2720.9
57.5°	1099.5	1134.2	1373.4	1663.8	2184.5	2917.4	3304.3	3258.7	3197.0	2885.0
60°	712.6	718.9	964.9	1257.6	1663.5	2483.0	3239.0	3411.9	3363.6	3052.3
62.5°	456.7	461.0	610.9	879.6	1197.2	1837.0	3019.1	3478.5	3463.7	3162.9
65°	335.6	332.4	410.4	581.4	806.5	1132.9	2592.3	3446.3	3475.5	3232.1
67.5°	280.2	275.6	314.0	402.6	594.2	643.4	1918.1	3237.3	3344.3	3224.2
70°	255.3	251.3	274.6	298.9	463.6	430.8	966.9	2814.4	2979.1	3134.6
72.5°	216.2	209.3	241.2	265.4	360.6	330.4	399.6	2161.8	2362.6	2847.6
75°	167.7	163.1	190.3	233.6	271.0	257.9	252.6	1312.7	1531.9	2202.2
77.5°	132.9	126.6	151.6	182.1	243.8	194.6	184.1	565.3	782.5	1405.9
80°	100.1	94.5	115.2	144.0	187.3	146.7	119.1	230.7	295.0	712.3
82.5°	71.2	66.3	80.4	105.6	126.0	131.6	73.2	129.3	145.3	274.6
85°	45.6	42.7	53.8	66.3	80.1	84.6	44.6	67.6	74.1	113.2
87.5°	24.9	20.3	28.9	30.8	37.1	33.8	21.3	24.6	26.6	41.0
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°
696.9	0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
698.2	2.5°	699.5	700.5	703.8	704.8	707.0	710.0	712.0	713.9	713.9	715.9
708.7	5°	709.0	711.3	718.2	721.8	727.7	733.6	737.2	741.5	744.1	745.4
725.4	7.5°	727.4	731.0	740.8	747.1	757.2	765.4	771.0	776.9	778.2	781.9
748.7	10°	752.3	756.6	767.7	779.6	791.7	801.9	807.1	811.4	813.0	813.7
778.6	12.5°	780.9	787.1	801.5	816.0	828.8	837.6	838.9	838.0	833.4	829.4
815.3	15°	816.0	821.6	837.6	853.4	865.8	867.5	859.3	854.0	848.5	847.5
856.3	17.5°	858.0	860.9	875.7	891.1	892.1	886.5	874.4	869.5	864.2	860.6
909.8	20°	906.9	905.9	916.4	922.9	916.0	899.0	880.6	872.4	867.2	862.9
975.4	22.5°	965.3	957.7	956.4	954.8	936.4	900.6	875.7	865.2	857.0	851.1
1067.0	25°	1050.2	1021.4	1001.4	990.2	948.9	891.8	859.9	836.6	821.2	811.1
1178.9	27.5°	1156.5	1108.0	1057.5	1030.2	948.9	873.7	821.9	784.2	758.9	748.4
1287.1	30°	1257.9	1207.1	1132.6	1078.5	946.6	844.2	760.5	708.0	678.5	668.0
1379.6	32.5°	1344.5	1289.1	1212.3	1131.3	941.0	796.3	684.4	626.3	597.8	585.3
1471.2	35°	1424.9	1365.9	1292.4	1189.4	926.2	726.1	600.7	556.5	524.6	504.6
1564.4	37.5°	1507.3	1437.1	1368.2	1241.8	899.6	644.1	536.4	498.7	461.3	434.4
1663.5	40°	1596.8	1512.9	1449.2	1273.0	856.0	566.0	486.6	452.1	412.4	383.9
1777.6	42.5°	1701.5	1603.7	1539.4	1289.1	796.3	510.5	454.1	420.3	382.9	359.6
1900.0	45°	1810.8	1703.8	1621.8	1288.8	729.7	484.6	443.6	410.1	368.8	344.5
2025.7	47.5°	1925.3	1808.5	1693.0	1267.8	671.9	488.2	437.7	388.1	342.5	318.9
2152.6	50°	2040.1	1923.0	1761.9	1228.4	647.3	480.3	415.7	357.3	303.5	282.2
2271.7	52.5°	2154.0	2044.7	1821.3	1172.3	622.4	451.1	387.5	317.3	287.4	272.6
2394.8	55°	2268.5	2165.1	1885.9	1090.6	560.1	417.0	340.2	302.2	274.6	261.2
2515.2	57.5°	2383.3	2304.2	1947.3	1008.9	481.6	375.0	314.3	283.8	261.8	250.3
2615.9	60°	2502.7	2463.3	2010.6	933.8	404.2	321.2	295.3	269.0	246.7	233.9
2712.7	62.5°	2625.8	2638.6	2060.1	837.0	333.0	288.4	278.2	251.3	229.7	217.5
2792.8	65°	2749.8	2807.5	2092.6	702.8	270.0	257.2	259.9	232.0	210.0	199.5
2851.5	67.5°	2843.3	2929.2	2083.4	531.8	221.5	227.7	236.9	211.6	191.0	182.7
2842.0	70°	2853.8	2914.8	1992.9	364.2	185.4	198.8	211.3	191.6	170.3	164.4
2708.1	72.5°	2714.0	2718.0	1740.6	237.9	156.8	174.5	184.4	171.3	150.6	144.7
2369.2	75°	2347.5	2247.8	1277.9	156.8	131.2	149.9	159.1	149.9	129.9	131.2
1772.7	77.5°	1778.6	1591.9	775.9	111.6	109.6	126.0	138.5	131.9	114.8	128.9
891.4	80°	916.4	861.3	346.1	83.3	86.6	100.7	113.8	105.3	90.9	86.6
199.2	82.5°	210.0	244.1	136.5	59.7	62.7	72.5	86.9	79.1	65.3	55.1
83.0	85°	73.5	80.4	60.4	37.4	36.7	45.3	59.1	52.8	44.3	35.4
35.1	87.5°	23.3	30.5	22.6	15.1	15.7	20.3	27.2	24.9	20.7	13.5
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>
696.9
715.9
746.1
780.5
812.0
829.4
847.5
860.9
863.2
853.1
815.0
753.6
674.2
591.6
511.2
441.6
389.5
364.2
348.4
322.2
283.5
272.6
259.9
248.4
232.9
217.2
199.2
183.1
164.7
144.4
126.6
113.5
79.1
54.5
37.4
14.1
0.0

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