

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: P946589

Luminaire Tested: **GALN-SB2A-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946589
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-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6588 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

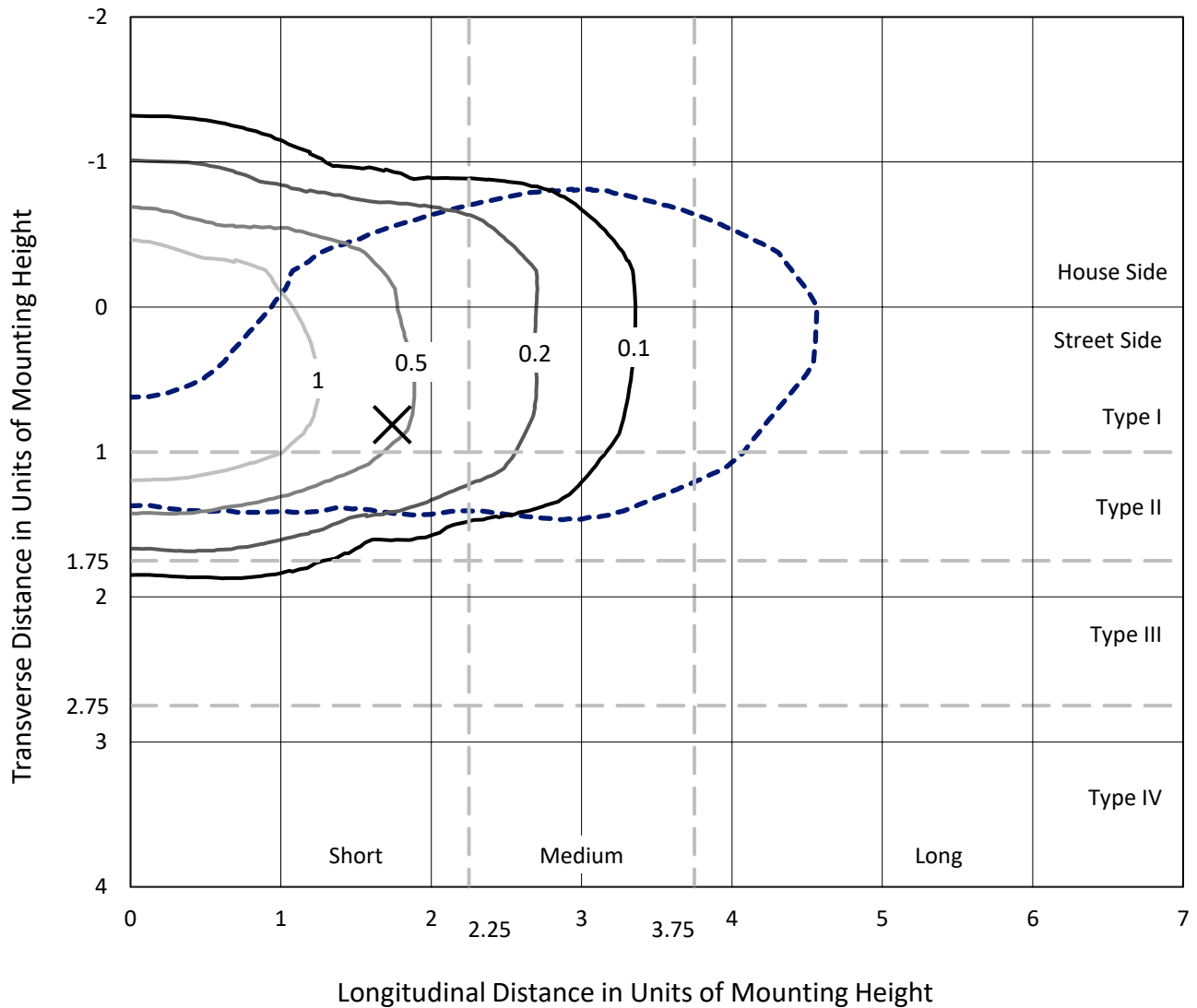
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

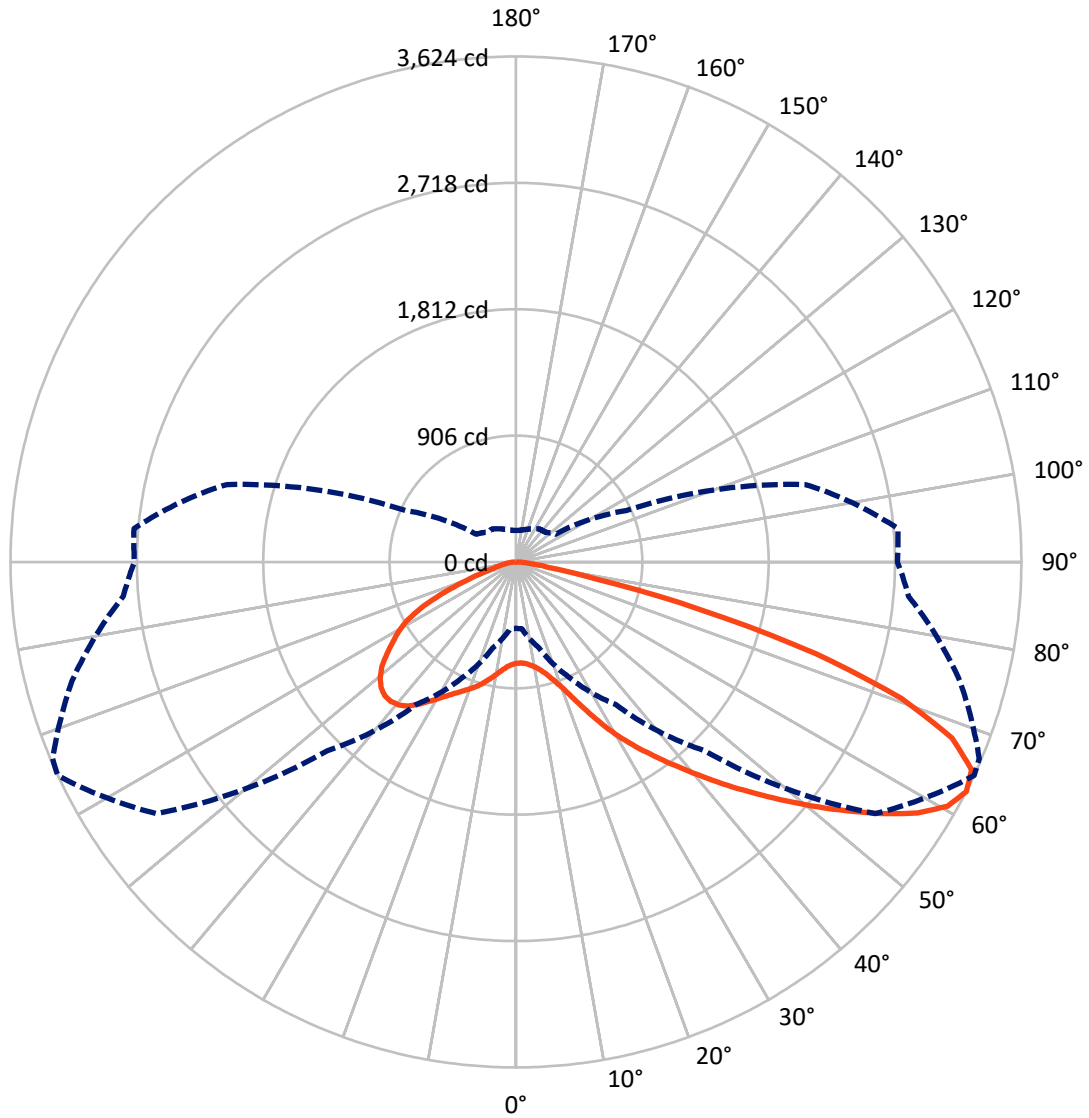
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2078.9	0.0	2078.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4509.1	0.0	4509.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	6588.0	0.0	6588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.1
10°-20°	245.4	3.7
20°-30°	497.7	7.6
30°-40°	861.2	13.1
40°-50°	1303.2	19.8
50°-60°	1528.0	23.2
60°-70°	1281.0	19.4
70°-80°	707.2	10.7
80°-90°	91.9	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°	6588.0	100.0
0°-180°	6588.0	100.0

Coefficient of Utilization



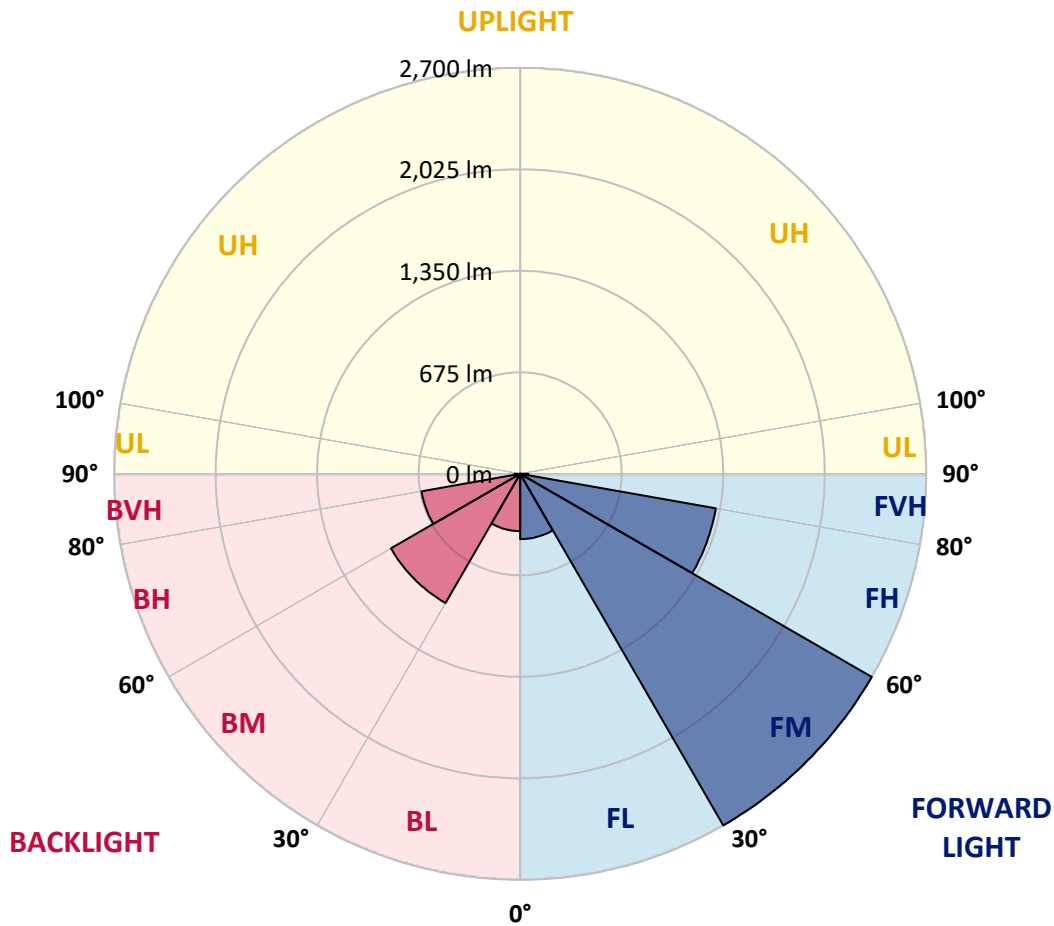
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.2	6.6			
FM (30°-60°)	2700.0	41.0			
FH (60°-80°)	1321.4	20.1			G1/1800
FVH (80°-90°)	53.5	0.8			G1/100
BL (0°-30°)	381.2	5.8	B1/500		
BM (30°-60°)	992.4	15.1	B1/1000		
BH (60°-80°)	666.9	10.1	B2/1000		G2/1000
BVH (80°-90°)	38.3	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°	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
2.5°	721.2	719.1	720.8	720.8	721.5	721.2	723.6	724.3	725.3	727.3
5°	714.0	713.7	716.7	719.5	722.2	724.6	727.7	732.1	732.8	735.2
7.5°	711.6	709.6	714.3	717.8	724.3	730.1	738.3	745.8	748.9	749.9
10°	730.1	726.7	731.1	733.1	738.6	744.4	754.0	766.0	769.4	773.5
12.5°	761.5	757.8	764.2	767.3	772.5	777.6	784.1	795.7	797.4	804.9
15°	804.6	800.1	804.2	808.0	816.5	821.3	827.8	839.1	839.1	844.9
17.5°	863.0	857.2	860.3	861.7	867.1	874.3	885.2	895.2	900.3	898.2
20°	950.2	943.0	943.0	936.2	934.1	939.9	954.3	968.0	973.4	962.8
22.5°	1081.1	1070.8	1065.0	1041.8	1032.6	1033.2	1047.6	1064.3	1068.8	1050.0
25°	1247.5	1231.5	1223.6	1189.4	1168.6	1150.5	1161.8	1183.3	1189.4	1166.2
27.5°	1414.0	1415.0	1407.5	1366.5	1332.0	1298.8	1293.0	1315.6	1322.1	1295.7
30°	1647.4	1623.2	1608.8	1559.6	1510.4	1463.9	1440.0	1449.2	1450.9	1419.5
32.5°	1848.8	1842.6	1811.8	1768.8	1705.5	1632.7	1592.8	1578.1	1575.3	1530.6
35°	2078.1	2074.7	2042.2	1990.9	1922.6	1821.4	1749.3	1707.3	1703.8	1640.9
37.5°	2311.2	2311.2	2279.4	2223.4	2152.6	2026.2	1916.4	1849.8	1838.8	1756.8
40°	2497.1	2485.9	2491.7	2468.1	2387.1	2252.8	2102.0	2005.3	1990.6	1892.2
42.5°	2602.8	2599.0	2633.9	2660.2	2627.0	2519.7	2306.4	2173.8	2153.3	2041.2
45°	2626.3	2622.2	2684.4	2780.8	2827.3	2783.2	2528.6	2351.2	2326.2	2197.0
47.5°	2572.0	2563.8	2655.1	2807.1	2956.2	3033.8	2769.2	2543.6	2507.4	2348.8
50°	2408.6	2400.8	2538.8	2740.8	2999.6	3204.0	3030.3	2747.7	2692.3	2511.5
52.5°	2053.5	2057.3	2273.6	2551.1	2942.5	3309.9	3255.2	2962.7	2896.0	2678.0
55°	1599.6	1607.8	1873.7	2179.3	2714.2	3293.9	3408.7	3184.1	3117.8	2834.5
57.5°	1145.3	1181.6	1430.7	1733.2	2275.7	3039.2	3442.2	3394.7	3330.4	3005.4
60°	742.4	748.9	1005.2	1310.1	1732.9	2586.7	3374.2	3554.3	3504.1	3179.7
62.5°	475.8	480.2	636.4	916.3	1247.2	1913.7	3145.2	3623.7	3608.3	3294.9
65°	349.7	346.2	427.6	605.7	840.1	1180.2	2700.5	3590.2	3620.6	3367.0
67.5°	291.9	287.1	327.1	419.4	619.0	670.3	1998.1	3372.5	3483.9	3358.8
70°	265.9	261.8	286.1	311.4	483.0	448.8	1007.3	2931.9	3103.5	3265.5
72.5°	225.2	218.1	251.2	276.5	375.6	344.2	416.3	2252.1	2461.3	2966.4
75°	174.7	169.9	198.2	243.4	282.3	268.6	263.2	1367.5	1595.8	2294.1
77.5°	138.4	131.9	157.9	189.7	254.0	202.7	191.7	588.9	815.2	1464.6
80°	104.2	98.4	120.0	150.0	195.2	152.8	124.1	240.3	307.3	742.0
82.5°	74.2	69.0	83.7	110.1	131.2	137.1	76.2	134.7	151.4	286.1
85°	47.5	44.4	56.1	69.0	83.4	88.2	46.5	70.4	77.2	117.9
87.5°	26.0	21.2	30.1	32.1	38.6	35.2	22.2	25.6	27.7	42.7
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°
726.0	0°	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
727.3	2.5°	728.7	729.7	733.1	734.2	736.6	739.6	741.7	743.7	743.7	745.8
738.3	5°	738.6	741.0	748.2	751.9	758.1	764.2	768.0	772.5	775.2	776.6
755.7	7.5°	757.8	761.5	771.8	778.3	788.9	797.4	803.2	809.4	810.7	814.5
780.0	10°	783.7	788.2	799.8	812.1	824.7	835.3	840.8	845.3	847.0	847.6
811.1	12.5°	813.5	820.0	835.0	850.0	863.4	872.6	874.0	872.9	868.2	864.1
849.4	15°	850.0	855.9	872.6	889.0	902.0	903.7	895.2	889.7	883.9	882.9
892.1	17.5°	893.8	896.9	912.2	928.3	929.3	923.5	910.9	905.8	900.3	896.5
947.8	20°	944.7	943.7	954.6	961.5	954.3	936.5	917.4	908.8	903.4	898.9
1016.2	22.5°	1005.6	997.7	996.3	994.6	975.5	938.2	912.2	901.3	892.8	886.6
1111.5	25°	1094.1	1064.0	1043.2	1031.5	988.5	929.0	895.8	871.6	855.5	844.9
1228.1	27.5°	1204.8	1154.2	1101.6	1073.2	988.5	910.2	856.2	816.9	790.6	779.6
1340.9	30°	1310.4	1257.5	1179.9	1123.5	986.1	879.4	792.3	737.6	706.8	695.9
1437.2	32.5°	1400.7	1342.9	1262.9	1178.5	980.3	829.5	713.0	652.5	622.7	609.8
1532.6	35°	1484.4	1422.9	1346.3	1239.0	964.9	756.4	625.8	579.7	546.5	525.7
1629.7	37.5°	1570.2	1497.1	1425.3	1293.7	937.2	670.9	558.8	519.5	480.6	452.5
1732.9	40°	1663.5	1576.0	1509.7	1326.2	891.7	589.6	506.9	471.0	429.6	399.9
1851.8	42.5°	1772.5	1670.7	1603.7	1342.9	829.5	531.8	473.0	437.8	398.9	374.6
1979.3	45°	1886.4	1774.9	1689.5	1342.6	760.1	504.8	462.1	427.2	384.2	358.9
2110.2	47.5°	2005.6	1884.0	1763.7	1320.7	700.0	508.6	456.0	404.3	356.8	332.2
2242.5	50°	2125.3	2003.3	1835.4	1279.7	674.4	500.4	433.1	372.2	316.2	293.9
2366.6	52.5°	2243.9	2130.1	1897.3	1221.2	648.4	470.0	403.7	330.5	299.4	284.0
2494.7	55°	2363.2	2255.5	1964.6	1136.1	583.4	434.4	354.4	314.8	286.1	272.1
2620.2	57.5°	2482.8	2400.4	2028.5	1051.0	501.8	390.7	327.4	295.7	272.8	260.8
2725.1	60°	2607.2	2566.2	2094.5	972.7	421.1	334.6	307.6	280.3	257.0	243.7
2825.9	62.5°	2735.4	2748.7	2146.1	871.9	346.9	300.4	289.8	261.8	239.3	226.6
2909.3	65°	2864.6	2924.7	2180.0	732.1	281.3	268.0	270.7	241.6	218.7	207.8
2970.5	67.5°	2962.0	3051.5	2170.4	554.0	230.7	237.2	246.8	220.5	198.9	190.4
2960.6	70°	2972.9	3036.5	2076.1	379.4	193.1	207.1	220.1	199.6	177.4	171.2
2821.2	72.5°	2827.3	2831.4	1813.2	247.8	163.4	181.8	192.1	178.4	156.9	150.7
2468.1	75°	2445.5	2341.6	1331.3	163.4	136.7	156.2	165.8	156.2	135.4	136.7
1846.7	77.5°	1852.9	1658.4	808.3	116.2	114.2	131.2	144.2	137.4	119.6	134.3
928.7	80°	954.6	897.2	360.6	86.8	90.2	104.9	118.6	109.7	94.7	90.2
207.5	82.5°	218.7	254.3	142.2	62.2	65.3	75.5	90.6	82.4	68.0	57.4
86.5	85°	76.6	83.7	62.9	39.0	38.3	47.2	61.5	55.0	46.1	36.9
36.6	87.5°	24.3	31.8	23.6	15.7	16.4	21.2	28.4	26.0	21.5	14.0
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>
726.0
745.8
777.2
813.1
845.9
864.1
882.9
896.9
899.3
888.7
849.0
785.1
702.4
616.3
532.5
460.1
405.7
379.4
363.0
335.6
295.3
284.0
270.7
258.7
242.7
226.3
207.5
190.7
171.6
150.4
131.9
118.3
82.4
56.7
39.0
14.7
0.0

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