

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: P938999

Luminaire Tested: **GALN-SB1B-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325 lumens
Efficiency: N/A
Efficacy: 133.8 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

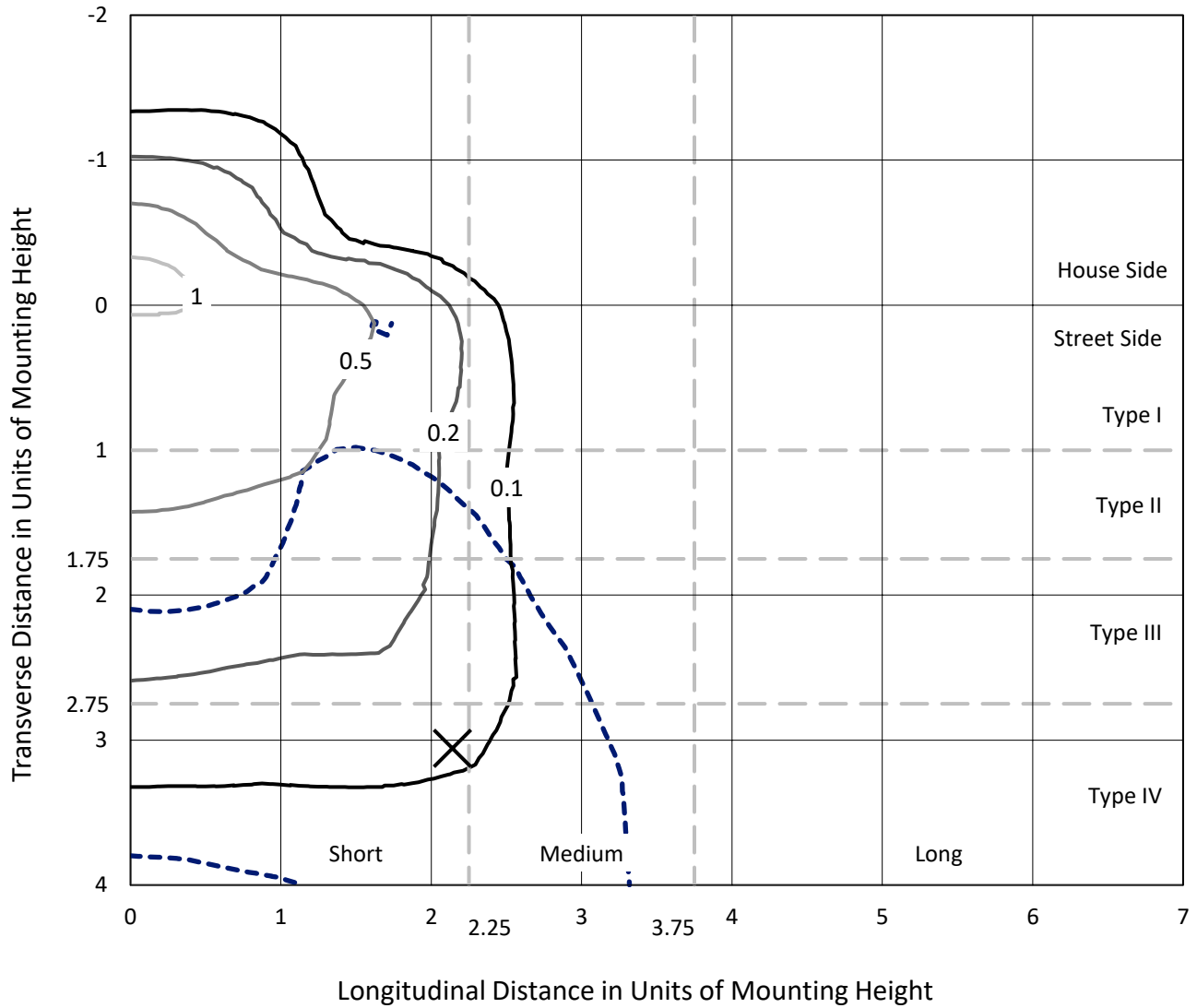
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

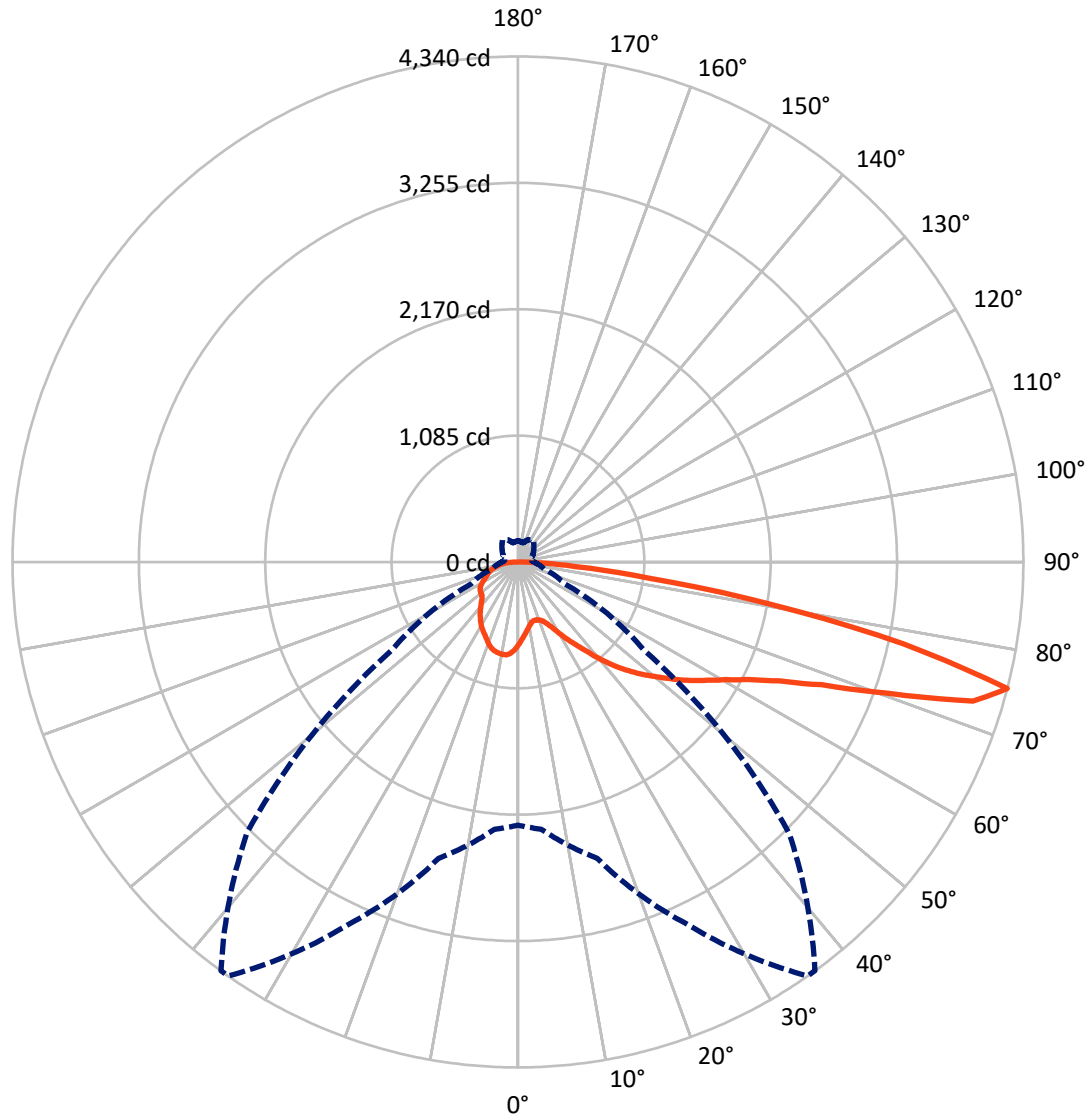
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1267.2	0.0	1267.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4057.8	0.0	4057.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	5325.0	0.0	5325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.3
10°-20°	193.8	3.6
20°-30°	325.4	6.1
30°-40°	505.8	9.5
40°-50°	750.7	14.1
50°-60°	1036.3	19.5
60°-70°	1257.3	23.6
70°-80°	1039.1	19.5
80°-90°	149.4	2.8
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°	5325.0	100.0
0°-180°	5325.0	100.0

Coefficient of Utilization



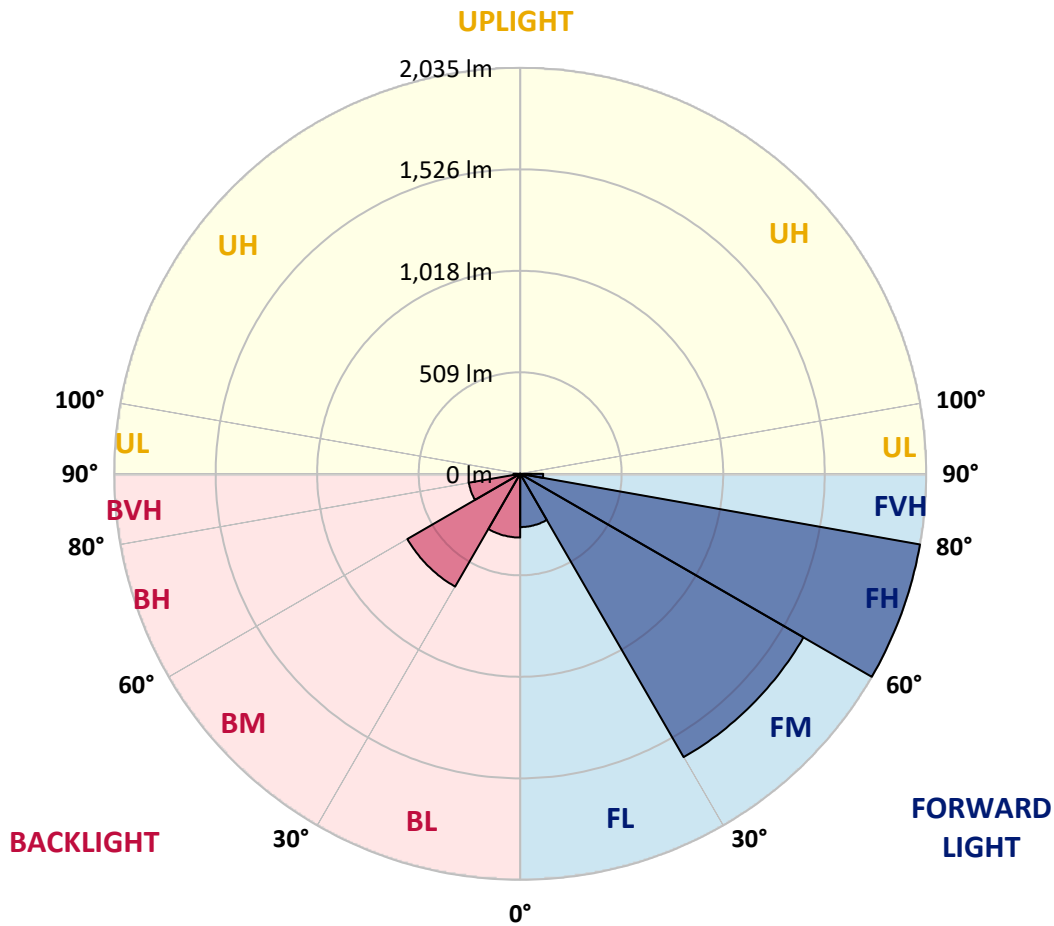
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.0	5.0			
FM (30°-60°)	1639.8	30.8			
FH (60°-80°)	2035.1	38.2			G2/5000
FVH (80°-90°)	115.8	2.2			G2/225
BL (0°-30°)	319.4	6.0	B1/500		
BM (30°-60°)	652.9	12.3	B1/1000		
BH (60°-80°)	261.3	4.9	B1/500		G1/500
BVH (80°-90°)	33.7	0.6			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°	36°	45°	55°	65°	75°
0°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
2.5°	654.3	658.4	660.1	659.2	663.5	663.0	669.0	676.5	686.9	696.9
5°	603.9	608.3	612.0	615.5	623.8	626.4	635.9	650.3	669.3	688.6
7.5°	557.0	560.8	566.5	572.9	587.0	589.6	605.4	627.8	654.3	682.5
10°	518.7	522.5	528.5	535.7	553.3	556.4	576.6	606.5	641.1	676.8
12.5°	502.3	503.5	506.9	514.1	529.4	531.4	553.6	587.8	628.1	672.5
15°	501.5	503.8	504.1	507.8	520.5	521.3	541.8	575.7	620.1	671.6
17.5°	510.1	511.8	509.2	511.5	522.2	523.6	539.8	570.0	617.5	675.3
20°	533.1	534.6	526.8	523.6	531.4	532.6	548.4	573.7	620.1	683.1
22.5°	582.1	582.9	563.9	551.0	551.6	552.1	565.9	589.0	630.1	697.2
25°	658.4	657.8	627.6	602.5	588.1	584.9	594.2	613.7	647.1	715.9
27.5°	747.6	743.3	713.0	675.6	644.2	639.6	637.6	646.0	671.3	740.7
30°	848.3	844.3	811.8	762.8	719.4	711.9	692.9	688.6	707.3	774.4
32.5°	958.9	956.3	917.4	858.1	800.0	791.3	759.4	747.9	762.6	825.3
35°	1051.6	1049.3	1017.0	956.0	884.9	874.3	841.7	828.8	836.3	890.7
37.5°	1135.3	1134.2	1106.6	1058.5	985.1	972.1	935.6	931.2	929.8	976.7
40°	1213.1	1210.2	1181.4	1156.1	1101.7	1089.9	1057.6	1053.9	1042.9	1082.7
42.5°	1299.1	1291.7	1249.9	1238.1	1223.4	1213.6	1194.4	1194.9	1170.8	1202.1
45°	1369.4	1365.1	1322.2	1315.3	1331.1	1327.1	1343.8	1348.1	1301.2	1327.4
47.5°	1444.8	1440.8	1404.5	1399.6	1442.5	1443.7	1502.7	1504.1	1428.4	1457.5
50°	1537.8	1532.0	1496.0	1502.1	1550.2	1554.5	1662.4	1652.6	1545.6	1589.6
52.5°	1599.1	1602.6	1594.8	1604.6	1670.2	1674.2	1819.6	1794.6	1661.6	1720.0
55°	1644.3	1651.2	1675.4	1697.8	1796.9	1800.9	1967.9	1929.6	1757.7	1840.9
57.5°	1702.4	1692.7	1737.9	1781.6	1917.2	1927.8	2112.1	2059.7	1842.9	1945.1
60°	1785.9	1779.0	1814.1	1878.9	2051.9	2068.9	2264.7	2176.9	1905.4	2027.7
62.5°	1955.2	1937.9	1943.4	2000.7	2221.8	2244.2	2436.8	2279.0	1936.5	2060.0
65°	2208.2	2178.6	2150.9	2190.7	2461.0	2483.1	2631.1	2359.4	1925.0	1997.5
67.5°	2526.9	2497.5	2463.6	2501.0	2813.3	2830.9	2870.9	2404.6	1834.3	1756.9
70°	2789.7	2778.8	2819.4	2973.4	3376.1	3376.7	3178.3	2367.1	1585.9	1245.6
72.5°	2754.9	2748.3	2962.2	3438.3	4085.4	4070.2	3469.4	2083.9	1068.3	561.9
75°	2260.0	2302.9	2634.3	3429.9	4340.2	4338.2	3291.2	1324.8	441.9	232.9
77.5°	1211.9	1279.9	1710.2	2532.4	3388.2	3439.1	2313.9	463.5	189.7	149.1
80°	395.2	454.5	681.7	1289.4	2201.6	2192.1	991.7	181.9	129.8	105.6
82.5°	167.8	174.7	304.6	608.8	1129.9	1112.3	315.8	104.5	91.3	72.3
85°	65.6	73.4	134.4	281.5	489.4	478.7	114.0	51.8	58.4	47.2
87.5°	21.6	26.2	48.1	96.4	152.3	146.8	27.9	17.8	25.3	21.6
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°
709.6	0°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
711.6	2.5°	715.6	720.2	725.7	733.8	740.7	746.4	752.5	756.2	757.7	762.0
712.8	5°	720.8	730.9	744.4	757.7	770.6	778.4	785.3	788.8	791.9	794.2
715.9	7.5°	729.5	742.4	763.7	781.0	791.9	798.3	802.9	801.7	802.9	803.4
719.4	10°	736.9	755.1	780.4	796.8	805.2	805.5	804.3	800.3	798.3	798.5
724.6	12.5°	745.9	766.0	793.4	807.2	809.5	803.1	798.3	791.3	788.8	787.6
732.3	15°	758.0	781.0	807.5	812.6	806.9	798.8	790.5	779.3	773.5	768.9
745.6	17.5°	772.6	798.0	818.4	814.7	802.3	789.0	775.5	758.5	746.7	741.8
763.7	20°	793.1	815.8	826.8	810.3	791.6	771.5	748.5	727.7	716.8	711.9
786.7	22.5°	817.8	839.7	834.8	802.9	776.4	744.1	715.3	700.1	694.6	691.2
816.4	25°	847.5	866.2	840.6	791.9	751.3	707.9	685.7	680.8	678.2	675.6
852.7	27.5°	886.1	896.1	844.9	775.8	712.2	669.3	661.2	662.1	661.2	656.9
903.0	30°	937.0	935.0	848.9	749.6	667.3	634.5	635.0	638.8	639.4	636.5
973.3	32.5°	1004.1	983.6	850.9	715.6	624.4	603.9	604.5	608.6	611.4	606.5
1065.1	35°	1085.3	1040.4	847.8	673.0	591.3	574.9	570.6	571.7	572.6	568.0
1176.5	37.5°	1180.0	1104.0	833.7	625.8	563.9	546.4	537.2	529.4	524.8	520.5
1302.6	40°	1283.9	1173.3	807.8	579.8	533.4	516.1	502.3	487.6	472.1	466.3
1436.2	42.5°	1392.7	1244.7	776.4	535.7	498.3	484.2	469.5	448.2	424.9	413.1
1574.9	45°	1505.5	1317.9	745.6	492.3	462.3	456.3	439.3	413.7	388.3	373.4
1714.0	47.5°	1616.1	1386.9	700.4	448.5	428.6	435.3	422.0	398.4	370.2	346.6
1851.8	50°	1721.7	1451.7	626.4	404.2	401.3	428.9	416.3	382.3	350.0	319.8
1987.1	52.5°	1826.5	1504.1	531.7	363.9	386.6	427.2	408.8	371.3	331.9	300.2
2114.4	55°	1915.5	1531.2	440.4	329.3	365.3	412.5	399.8	358.4	306.3	272.6
2201.6	57.5°	1966.1	1509.3	364.4	295.4	335.9	388.3	384.6	330.8	275.8	249.9
2218.6	60°	1944.3	1420.6	302.3	265.7	308.0	362.1	358.1	303.4	252.5	228.0
2127.6	62.5°	1823.6	1251.6	253.0	239.8	282.7	335.4	331.6	282.4	234.6	211.0
1886.1	65°	1580.7	1018.2	214.7	218.2	257.1	303.1	308.6	264.8	220.5	197.5
1459.2	67.5°	1205.6	737.5	184.8	199.5	232.0	271.5	287.3	252.2	208.7	186.8
844.3	70°	687.1	418.8	159.5	181.4	209.9	242.1	270.9	242.1	196.0	177.9
316.4	72.5°	260.5	192.3	137.9	163.2	188.6	217.3	252.7	226.3	181.4	167.8
163.5	75°	139.0	117.2	116.0	141.9	164.1	193.2	230.0	210.7	170.4	177.3
113.1	77.5°	94.7	82.9	97.0	121.5	137.3	166.4	205.8	187.1	147.7	147.1
78.3	80°	65.6	58.7	78.9	97.9	106.2	139.9	179.6	160.6	120.3	112.3
48.4	82.5°	39.4	38.3	59.0	73.1	75.1	108.0	148.8	134.7	98.5	85.8
28.8	85°	21.6	22.7	37.7	42.9	43.8	75.4	116.6	104.2	75.7	63.6
10.4	87.5°	6.0	7.8	13.8	17.0	21.0	39.1	69.4	61.9	38.0	26.5
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>
709.6
761.7
794.8
804.3
799.1
787.0
770.3
742.1
711.3
691.7
675.6
657.8
637.9
608.8
571.1
523.3
468.9
414.5
372.2
344.0
317.2
296.8
269.7
246.4
224.5
207.3
193.7
183.4
175.6
165.5
<i>183.1</i>
135.6
107.4
86.4
64.2
26.5
0.0

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