

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: P939349

Luminaire Tested: **GALN-SB1D-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939349
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-SB1D-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6124 lumens
Efficiency: N/A
Efficacy: 76.9 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

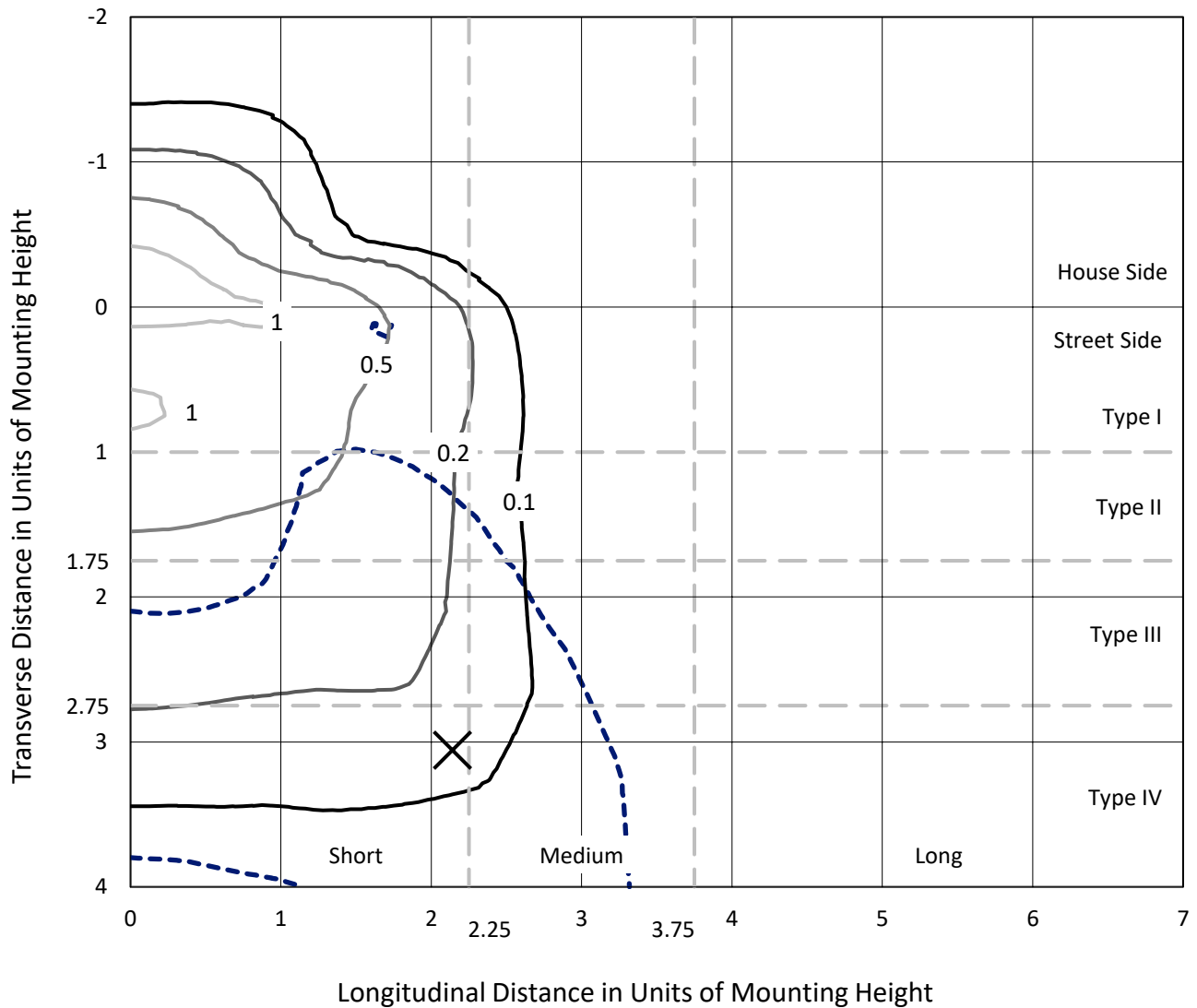
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

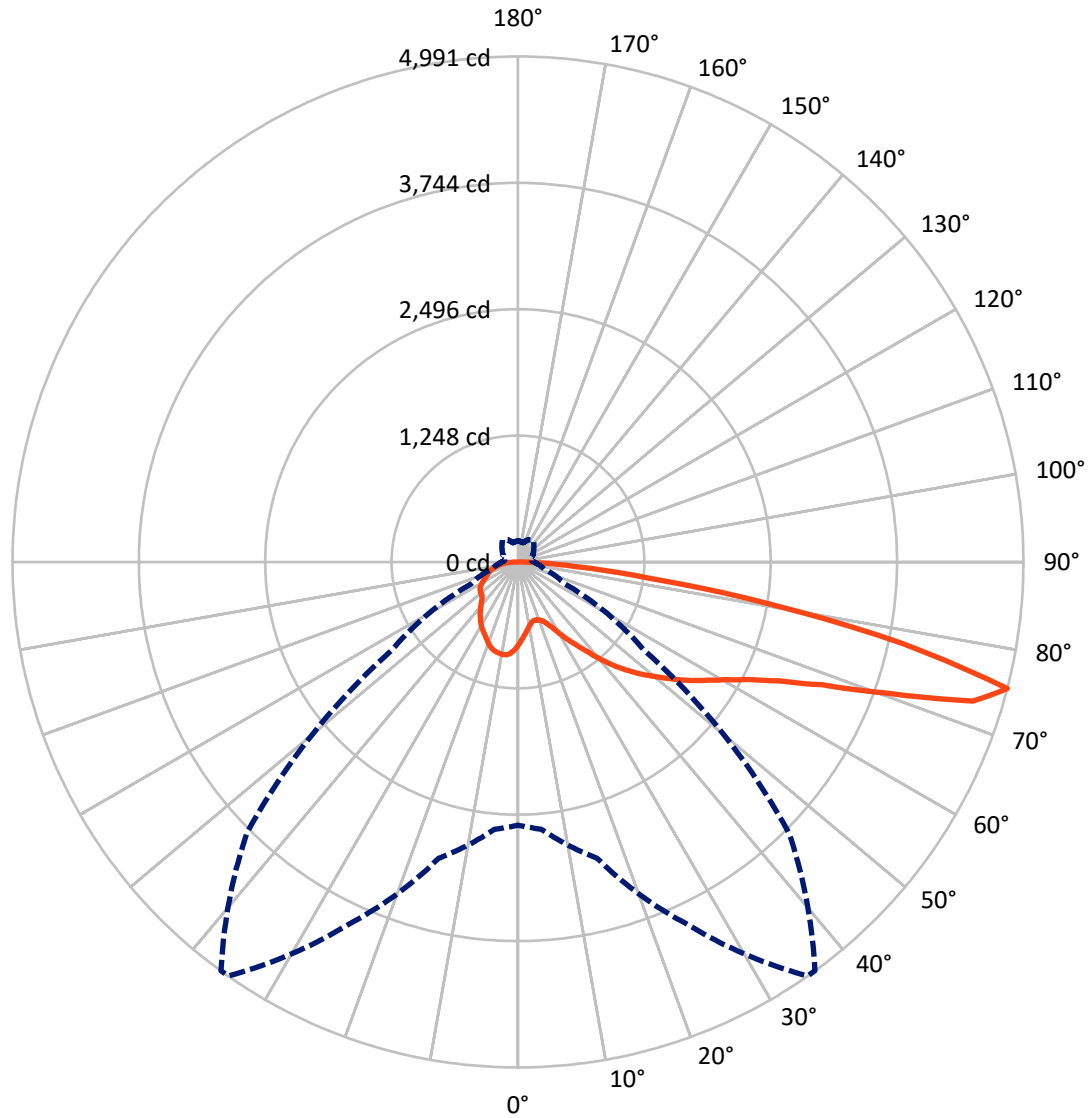
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1457.4	0.0	1457.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4666.6	0.0	4666.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	6124.0	0.0	6124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	1.3
10°-20°	222.9	3.6
20°-30°	374.2	6.1
30°-40°	581.6	9.5
40°-50°	863.3	14.1
50°-60°	1191.8	19.5
60°-70°	1446.0	23.6
70°-80°	1195.0	19.5
80°-90°	171.9	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°	6124.0	100.0
0°-180°	6124.0	100.0

Coefficient of Utilization



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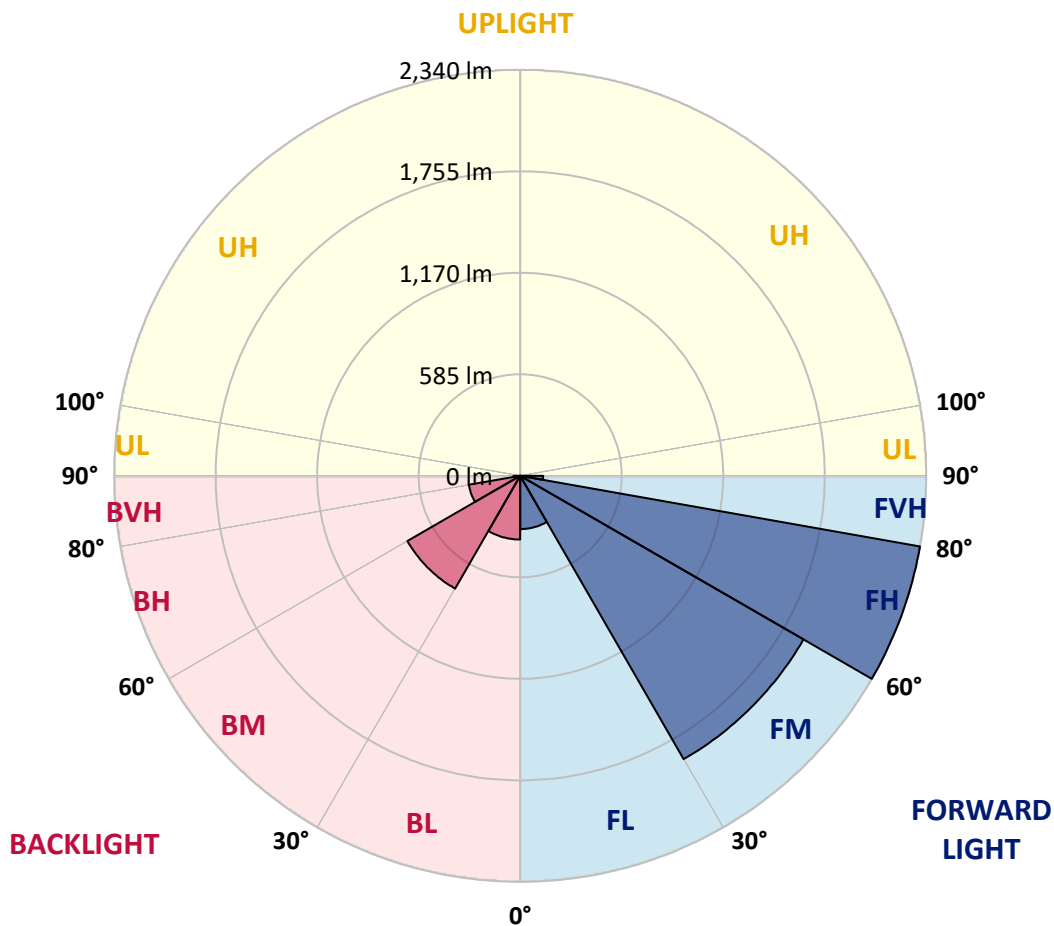
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.1	5.0			
FM (30°-60°)	1885.9	30.8			
FH (60°-80°)	2340.5	38.2			G2/5000
FVH (80°-90°)	133.2	2.2			G2/225
BL (0°-30°)	367.3	6.0	B1/500		
BM (30°-60°)	750.9	12.3	B1/1000		
BH (60°-80°)	300.5	4.9	B1/500		G1/500
BVH (80°-90°)	38.7	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°	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1
2.5°	752.5	757.1	759.1	758.1	763.1	762.4	769.4	778.0	789.9	801.5
5°	694.6	699.5	703.8	707.8	717.4	720.4	731.3	747.9	769.7	791.9
7.5°	640.6	644.9	651.5	658.8	675.0	678.0	696.2	722.0	752.5	784.9
10°	596.6	600.9	607.8	616.1	636.3	639.9	663.1	697.5	737.3	778.3
12.5°	577.7	579.0	583.0	591.3	608.8	611.1	636.6	676.0	722.4	773.4
15°	576.7	579.4	579.7	584.0	598.6	599.6	623.1	662.1	713.1	772.4
17.5°	586.6	588.6	585.6	588.3	600.5	602.2	620.7	655.5	710.1	776.7
20°	613.1	614.8	605.8	602.2	611.1	612.5	630.7	659.8	713.1	785.6
22.5°	669.4	670.4	648.5	633.7	634.3	635.0	650.9	677.4	724.7	801.8
25°	757.1	756.5	721.7	692.9	676.4	672.7	683.3	705.8	744.2	823.3
27.5°	859.8	854.8	820.0	777.0	740.9	735.6	733.3	742.9	772.0	851.8
30°	975.6	971.0	933.6	877.3	827.3	818.7	796.9	791.9	813.4	890.6
32.5°	1102.8	1099.8	1055.1	986.9	920.0	910.1	873.3	860.1	877.0	949.2
35°	1209.4	1206.7	1169.6	1099.5	1017.7	1005.4	968.0	953.1	961.7	1024.3
37.5°	1305.7	1304.4	1272.6	1217.3	1132.9	1118.0	1075.9	1071.0	1069.3	1123.3
40°	1395.1	1391.8	1358.7	1329.5	1267.0	1253.4	1216.3	1212.0	1199.4	1245.1
42.5°	1494.1	1485.5	1437.5	1423.9	1407.0	1395.8	1373.6	1374.2	1346.4	1382.5
45°	1574.9	1569.9	1520.6	1512.6	1530.8	1526.2	1545.4	1550.4	1496.4	1526.5
47.5°	1661.6	1657.0	1615.2	1609.6	1658.9	1660.3	1728.1	1729.8	1642.7	1676.2
50°	1768.5	1761.9	1720.5	1727.5	1782.8	1787.7	1911.9	1900.6	1777.5	1828.1
52.5°	1839.0	1843.0	1834.1	1845.3	1920.8	1925.4	2092.6	2063.8	1910.9	1978.1
55°	1891.0	1899.0	1926.8	1952.6	2066.5	2071.1	2263.1	2219.1	2021.5	2117.1
57.5°	1957.9	1946.6	1998.6	2048.9	2204.9	2217.1	2429.0	2368.7	2119.5	2237.0
60°	2053.9	2046.0	2086.3	2160.8	2359.8	2379.3	2604.5	2503.5	2191.3	2332.0
62.5°	2248.6	2228.7	2235.0	2300.9	2555.1	2580.9	2802.4	2621.0	2227.0	2369.1
65°	2539.6	2505.5	2473.7	2519.4	2830.2	2855.7	3025.9	2713.4	2213.8	2297.2
67.5°	2906.1	2872.3	2833.2	2876.3	3235.5	3255.7	3301.7	2765.3	2109.5	2020.5
70°	3208.3	3195.7	3242.4	3419.5	3882.7	3883.3	3655.2	2722.3	1823.8	1432.5
72.5°	3168.3	3160.6	3406.6	3954.2	4698.4	4680.9	3989.9	2396.5	1228.6	646.2
75°	2599.2	2648.5	3029.5	3944.6	4991.4	4989.1	3785.0	1523.5	508.2	267.8
77.5°	1393.8	1471.9	1966.8	2912.3	3896.6	3955.2	2661.1	533.0	218.2	171.5
80°	454.5	522.7	784.0	1482.8	2532.0	2521.0	1140.5	209.2	149.3	121.5
82.5°	193.0	201.0	350.3	700.2	1299.4	1279.2	363.2	120.2	104.9	83.1
85°	75.5	84.4	154.6	323.8	562.8	550.6	131.1	59.6	67.2	54.3
87.5°	24.8	30.1	55.3	110.9	175.1	168.8	32.1	20.5	29.1	24.8
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°
816.1	0°	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1	816.1
818.4	2.5°	823.0	828.3	834.6	843.9	851.8	858.4	865.4	869.7	871.4	876.3
819.7	5°	829.0	840.6	856.1	871.4	886.2	895.2	903.1	907.1	910.7	913.4
823.3	7.5°	838.9	853.8	878.3	898.2	910.7	918.0	923.3	922.0	923.3	924.0
827.3	10°	847.5	868.4	897.5	916.4	926.0	926.3	925.0	920.3	918.0	918.4
833.3	12.5°	857.8	881.0	912.4	928.3	930.9	923.7	918.0	910.1	907.1	905.8
842.2	15°	871.7	898.2	928.6	934.6	928.0	918.7	909.1	896.2	889.6	884.3
857.4	17.5°	888.6	917.7	941.2	936.9	922.7	907.4	891.9	872.3	858.8	853.1
878.3	20°	912.1	938.2	950.8	931.9	910.4	887.2	860.8	836.9	824.3	818.7
904.8	22.5°	940.5	965.7	960.1	923.3	892.9	855.8	822.7	805.1	798.8	794.9
938.9	25°	974.6	996.2	966.7	910.7	864.1	814.1	788.6	783.0	780.0	777.0
980.6	27.5°	1019.0	1030.6	971.7	892.2	819.0	769.7	760.4	761.4	760.4	755.5
1038.5	30°	1077.6	1075.3	976.3	862.1	767.4	729.7	730.3	734.6	735.3	732.0
1119.3	32.5°	1154.7	1131.2	978.6	823.0	718.1	694.6	695.2	699.9	703.2	697.5
1224.9	35°	1248.1	1196.5	975.0	774.0	680.0	661.1	656.2	657.5	658.5	653.2
1353.0	37.5°	1357.0	1269.6	958.8	719.7	648.5	628.4	617.8	608.8	603.5	598.6
1498.0	40°	1476.5	1349.4	929.0	666.8	613.5	593.6	577.7	560.8	542.9	536.3
1651.7	42.5°	1601.7	1431.5	892.9	616.1	573.1	556.8	540.0	515.5	488.6	475.1
1811.2	45°	1731.4	1515.6	857.4	566.1	531.7	524.7	505.2	475.7	446.6	429.4
1971.1	47.5°	1858.6	1595.1	805.5	515.8	492.9	500.6	485.3	458.2	425.7	398.6
2129.7	50°	1980.1	1669.5	720.4	464.8	461.5	493.3	478.7	439.6	402.6	367.8
2285.3	52.5°	2100.6	1729.8	611.5	418.5	444.6	491.3	470.1	427.1	381.7	345.3
2431.6	55°	2202.9	1760.9	506.5	378.7	420.1	474.4	459.8	412.2	352.2	313.5
2532.0	57.5°	2261.1	1735.8	419.1	339.7	386.3	446.6	442.3	380.4	317.2	287.4
2551.5	60°	2236.0	1633.8	347.6	305.6	354.2	416.5	411.8	348.9	290.3	262.2
2446.9	62.5°	2097.3	1439.5	291.0	275.8	325.1	385.7	381.4	324.8	269.8	242.7
2169.1	65°	1817.9	1171.0	247.0	250.9	295.6	348.6	354.9	304.6	253.6	227.1
1678.1	67.5°	1386.5	848.2	212.5	229.4	266.8	312.2	330.4	290.0	240.0	214.9
971.0	70°	790.2	481.7	183.4	208.6	241.3	278.4	311.5	278.4	225.5	204.6
363.8	72.5°	299.6	221.1	158.6	187.7	216.8	250.0	290.7	260.2	208.6	193.0
188.0	75°	159.9	134.7	133.4	163.2	188.7	222.1	264.5	242.3	196.0	203.9
130.1	77.5°	108.9	95.3	111.6	139.7	157.9	191.4	236.7	215.2	169.8	169.2
90.0	80°	75.5	67.5	90.7	112.6	122.2	160.9	206.6	184.7	138.4	129.1
55.6	82.5°	45.4	44.0	67.9	84.1	86.4	124.1	171.2	154.9	113.2	98.7
33.1	85°	24.8	26.2	43.4	49.3	50.3	86.7	134.1	119.8	87.1	73.2
11.9	87.5°	7.0	8.9	15.9	19.5	24.2	45.0	79.8	71.2	43.7	30.5
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>
816.1
876.0
914.1
925.0
919.0
905.1
885.9
853.5
818.1
795.5
777.0
756.5
733.6
700.2
656.8
601.9
539.3
476.7
428.1
395.6
364.8
341.3
310.2
283.4
258.2
238.4
222.8
210.9
201.9
190.4
<i>210.6</i>
155.9
123.5
99.3
73.8
30.5
0.0

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