

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: P945014

Luminaire Tested: **GALN-SB1A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945014
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-SB1A-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4086 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

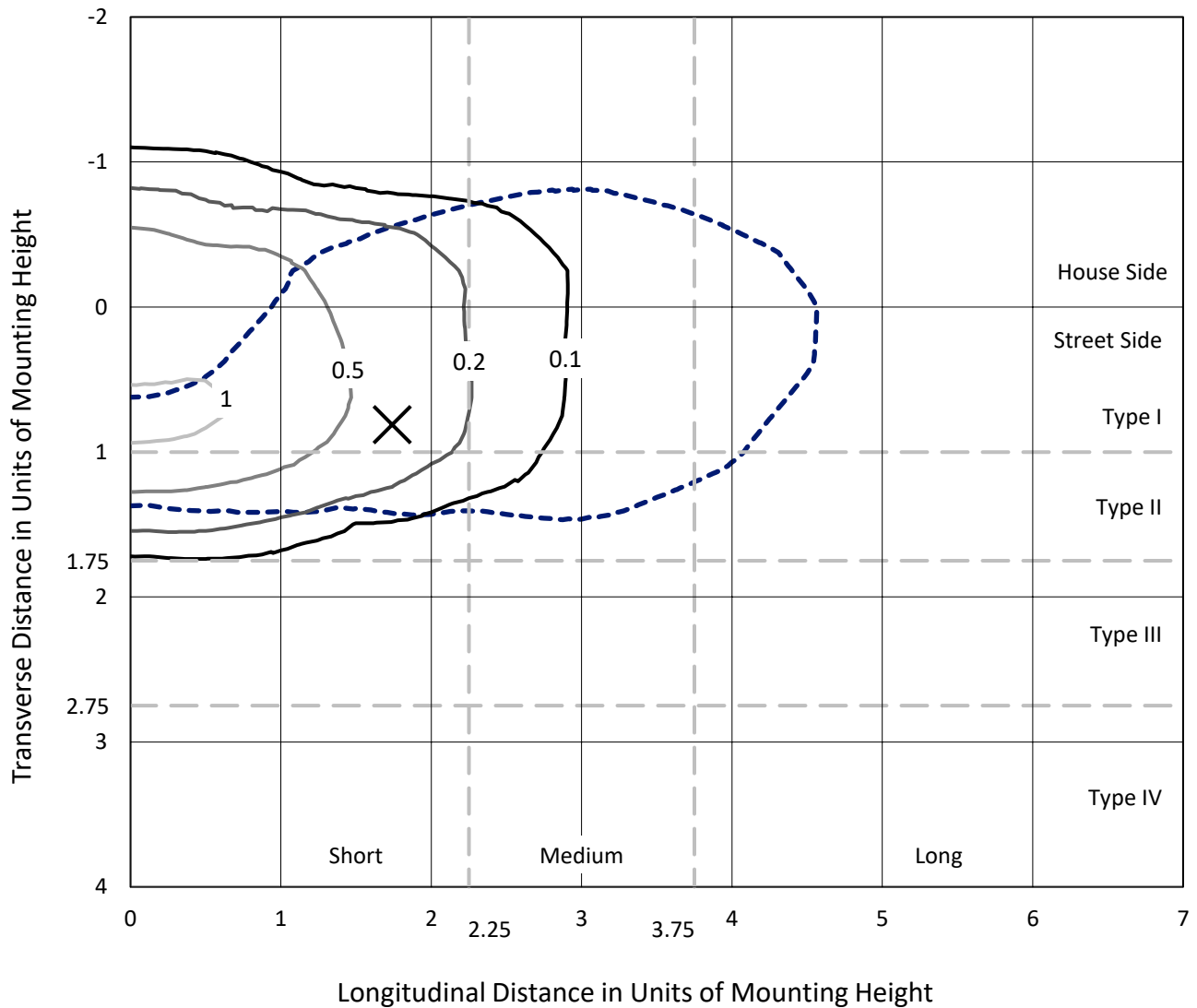
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

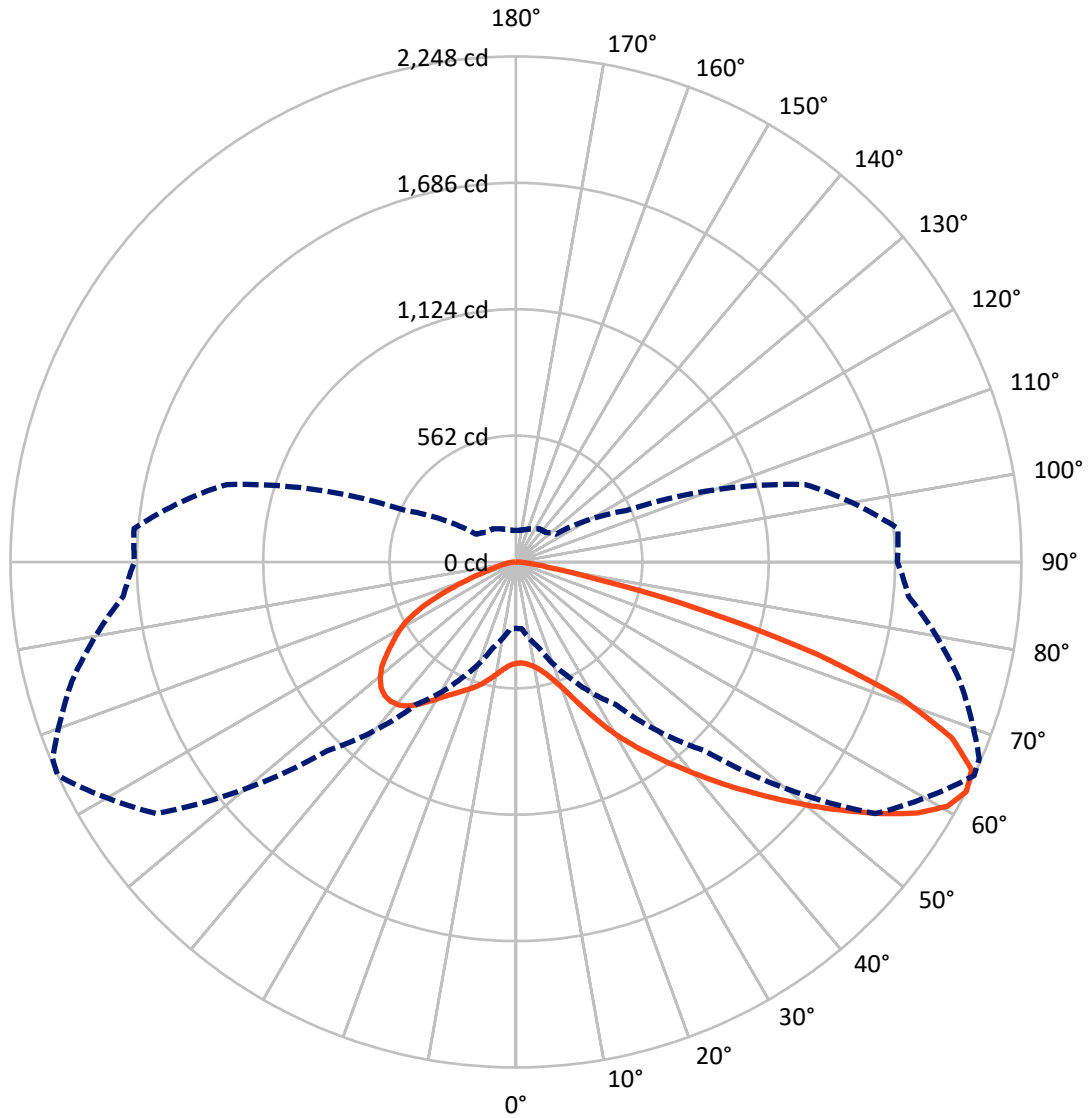
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type 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	1289.4	0.0	1289.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2796.6	0.0	2796.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	4086.0	0.0	4086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.1
10°-20°	152.2	3.7
20°-30°	308.7	7.6
30°-40°	534.1	13.1
40°-50°	808.3	19.8
50°-60°	947.7	23.2
60°-70°	794.5	19.4
70°-80°	438.6	10.7
80°-90°	57.0	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°	4086.0	100.0
0°-180°	4086.0	100.0

Coefficient of Utilization

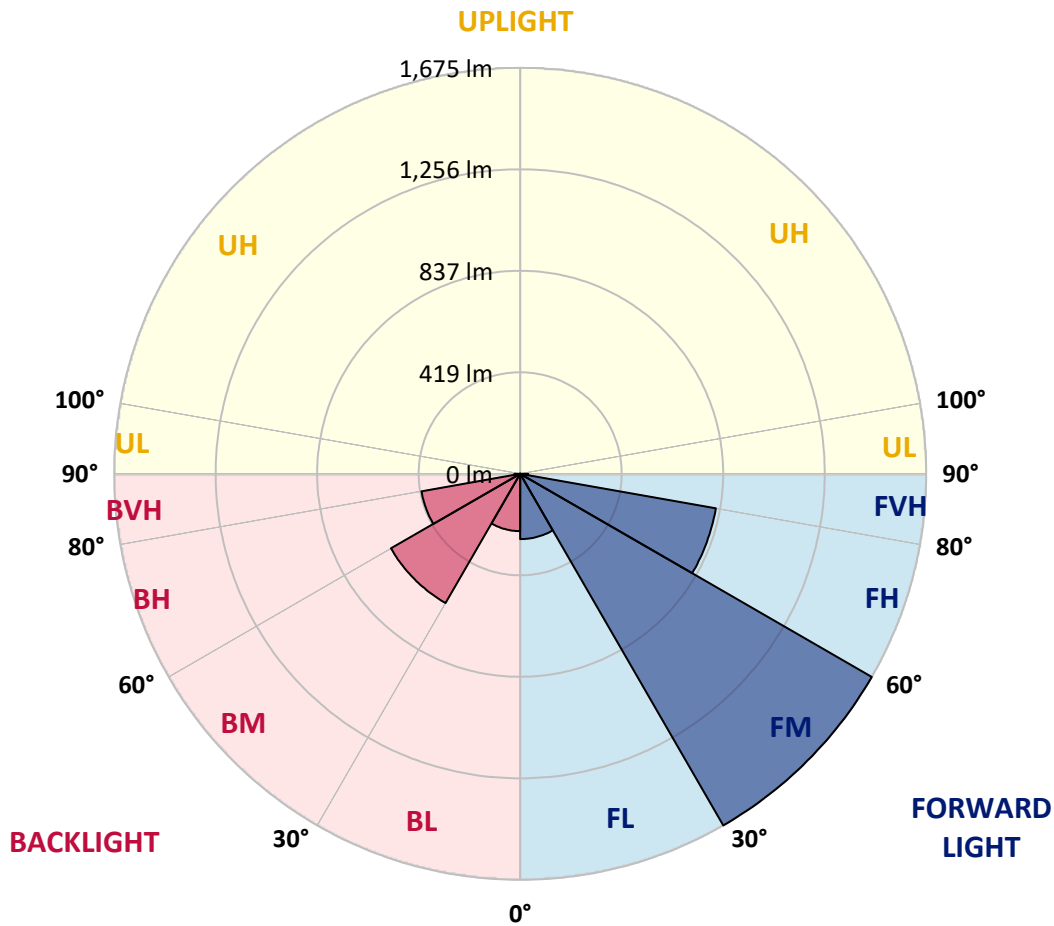


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.3	6.6			
FM (30°-60°)	1674.6	41.0			
FH (60°-80°)	819.5	20.1			G1/1800
FVH (80°-90°)	33.2	0.8			G1/100
BL (0°-30°)	236.5	5.8	B1/500		
BM (30°-60°)	615.5	15.1	B1/1000		
BH (60°-80°)	413.6	10.1	B1/500		G1/500
BVH (80°-90°)	23.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3
2.5°	447.3	446.0	447.1	447.1	447.5	447.3	448.8	449.2	449.8	451.1
5°	442.8	442.6	444.5	446.2	447.9	449.4	451.3	454.1	454.5	456.0
7.5°	441.4	440.1	443.1	445.2	449.2	452.8	457.9	462.6	464.5	465.1
10°	452.8	450.7	453.4	454.7	458.1	461.7	467.6	475.1	477.2	479.7
12.5°	472.3	470.0	474.0	475.9	479.1	482.3	486.3	493.5	494.6	499.2
15°	499.0	496.3	498.8	501.1	506.4	509.4	513.4	520.4	520.4	524.0
17.5°	535.3	531.7	533.6	534.4	537.8	542.3	549.0	555.2	558.4	557.1
20°	589.3	584.9	584.9	580.6	579.4	583.0	591.9	600.3	603.7	597.2
22.5°	670.5	664.2	660.6	646.1	640.4	640.8	649.7	660.1	662.9	651.2
25°	773.8	763.8	758.9	737.7	724.8	713.5	720.5	733.9	737.7	723.3
27.5°	877.0	877.6	873.0	847.5	826.1	805.5	801.9	815.9	820.0	803.6
30°	1021.8	1006.7	997.8	967.3	936.8	907.9	893.1	898.8	899.9	880.4
32.5°	1146.6	1142.8	1123.7	1097.0	1057.8	1012.7	987.9	978.7	977.0	949.3
35°	1288.9	1286.8	1266.6	1234.8	1192.4	1129.7	1084.9	1058.9	1056.8	1017.7
37.5°	1433.5	1433.5	1413.7	1379.0	1335.1	1256.7	1188.6	1147.3	1140.5	1089.6
40°	1548.8	1541.8	1545.4	1530.8	1480.5	1397.2	1303.7	1243.7	1234.6	1173.6
42.5°	1614.3	1611.9	1633.6	1649.9	1629.3	1562.8	1430.5	1348.2	1335.5	1266.0
45°	1628.9	1626.4	1664.9	1724.7	1753.6	1726.2	1568.3	1458.3	1442.8	1362.6
47.5°	1595.2	1590.1	1646.7	1741.0	1833.5	1881.6	1717.5	1577.6	1555.1	1456.8
50°	1493.9	1489.0	1574.6	1699.9	1860.4	1987.2	1879.5	1704.2	1669.8	1557.7
52.5°	1273.6	1275.9	1410.1	1582.3	1825.0	2052.9	2019.0	1837.5	1796.2	1660.9
55°	992.1	997.2	1162.1	1351.6	1683.4	2042.9	2114.1	1974.9	1933.7	1758.0
57.5°	710.4	732.8	887.4	1075.0	1411.4	1885.0	2134.9	2105.5	2065.6	1864.0
60°	460.4	464.5	623.5	812.5	1074.8	1604.3	2092.7	2204.4	2173.3	1972.1
62.5°	295.1	297.8	394.7	568.3	773.5	1186.9	1950.7	2247.5	2237.9	2043.6
65°	216.9	214.7	265.2	375.6	521.1	732.0	1674.9	2226.7	2245.6	2088.3
67.5°	181.0	178.1	202.9	260.1	383.9	415.7	1239.3	2091.7	2160.8	2083.2
70°	164.9	162.4	177.4	193.1	299.5	278.3	624.7	1818.4	1924.8	2025.3
72.5°	139.7	135.2	155.8	171.5	233.0	213.5	258.2	1396.8	1526.5	1839.8
75°	108.3	105.4	123.0	150.9	175.1	166.6	163.2	848.2	989.8	1422.9
77.5°	85.9	81.8	97.9	117.7	157.5	125.7	118.9	365.3	505.6	908.4
80°	64.7	61.1	74.4	93.1	121.0	94.8	77.0	149.0	190.6	460.2
82.5°	46.0	42.8	51.9	68.3	81.4	85.0	47.3	83.5	93.9	177.4
85°	29.5	27.6	34.8	42.8	51.7	54.7	28.8	43.7	47.9	73.1
87.5°	16.1	13.1	18.7	19.9	24.0	21.8	13.8	15.9	17.2	26.5
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°
450.3	0°	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3	450.3
451.1	2.5°	452.0	452.6	454.7	455.3	456.8	458.7	460.0	461.3	461.3	462.6
457.9	5°	458.1	459.6	464.0	466.4	470.2	474.0	476.3	479.1	480.8	481.6
468.7	7.5°	470.0	472.3	478.7	482.7	489.3	494.6	498.2	502.0	502.8	505.2
483.8	10°	486.1	488.8	496.0	503.7	511.5	518.1	521.5	524.2	525.3	525.7
503.0	12.5°	504.5	508.6	517.9	527.2	535.5	541.2	542.0	541.4	538.4	535.9
526.8	15°	527.2	530.8	541.2	551.4	559.4	560.5	555.2	551.8	548.2	547.6
553.3	17.5°	554.3	556.3	565.8	575.8	576.4	572.8	564.9	561.8	558.4	556.0
587.8	20°	585.9	585.3	592.1	596.3	591.9	580.8	569.0	563.7	560.3	557.5
630.2	22.5°	623.7	618.8	617.9	616.9	605.0	581.9	565.8	559.0	553.7	549.9
689.4	25°	678.6	659.9	647.0	639.8	613.1	576.2	555.6	540.6	530.6	524.0
761.7	27.5°	747.3	715.9	683.2	665.6	613.1	564.5	531.0	506.6	490.3	483.5
831.6	30°	812.8	779.9	731.8	696.8	611.6	545.4	491.4	457.5	438.4	431.6
891.4	32.5°	868.7	832.9	783.3	730.9	608.0	514.5	442.2	404.7	386.2	378.2
950.5	35°	920.7	882.5	835.0	768.5	598.4	469.1	388.1	359.5	339.0	326.0
1010.8	37.5°	973.9	928.5	884.0	802.4	581.3	416.1	346.6	322.2	298.1	280.7
1074.8	40°	1031.7	977.5	936.3	822.5	553.1	365.7	314.4	292.1	266.5	248.0
1148.5	42.5°	1099.4	1036.2	994.6	832.9	514.5	329.9	293.4	271.6	247.4	232.3
1227.6	45°	1170.0	1100.8	1047.8	832.7	471.5	313.1	286.6	265.0	238.3	222.6
1308.8	47.5°	1243.9	1168.5	1093.9	819.1	434.1	315.4	282.8	250.8	221.3	206.1
1390.8	50°	1318.1	1242.5	1138.4	793.7	418.2	310.3	268.6	230.9	196.1	182.3
1467.8	52.5°	1391.7	1321.1	1176.7	757.4	402.1	291.5	250.4	205.0	185.7	176.2
1547.3	55°	1465.7	1398.9	1218.5	704.6	361.9	269.4	219.8	195.2	177.4	168.7
1625.1	57.5°	1539.9	1488.8	1258.1	651.9	311.2	242.3	203.1	183.4	169.2	161.7
1690.2	60°	1617.0	1591.6	1299.1	603.3	261.2	207.5	190.8	173.8	159.4	151.1
1752.7	62.5°	1696.5	1704.8	1331.1	540.8	215.2	186.3	179.8	162.4	148.4	140.5
1804.4	65°	1776.7	1814.0	1352.1	454.1	174.5	166.2	167.9	149.9	135.7	128.9
1842.4	67.5°	1837.1	1892.6	1346.1	343.6	143.1	147.1	153.1	136.7	123.4	118.1
1836.2	70°	1843.9	1883.3	1287.6	235.3	119.8	128.5	136.5	123.8	110.0	106.2
1749.7	72.5°	1753.6	1756.1	1124.6	153.7	101.3	112.8	119.1	110.7	97.3	93.5
1530.8	75°	1516.8	1452.3	825.7	101.3	84.8	96.9	102.8	96.9	83.9	84.8
1145.4	77.5°	1149.2	1028.6	501.3	72.1	70.8	81.4	89.5	85.2	74.2	83.3
576.0	80°	592.1	556.5	223.6	53.8	56.0	65.1	73.6	68.0	58.7	56.0
128.7	82.5°	135.7	157.7	88.2	38.6	40.5	46.8	56.2	51.1	42.2	35.6
53.6	85°	47.5	51.9	39.0	24.2	23.7	29.3	38.2	34.1	28.6	22.9
22.7	87.5°	15.1	19.7	14.6	9.8	10.2	13.1	17.6	16.1	13.4	8.7
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>
450.3
462.6
482.1
504.3
524.7
535.9
547.6
556.3
557.7
551.2
526.6
486.9
435.6
382.2
330.3
285.3
251.6
235.3
225.1
208.2
183.2
176.2
167.9
160.5
150.5
140.3
128.7
118.3
106.4
93.3
81.8
73.3
51.1
35.2
24.2
9.1
0.0

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