

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: P945077

Luminaire Tested: **GALN-SB1A-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945077
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-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4350 lumens
Efficiency: N/A
Efficacy: 140.8 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

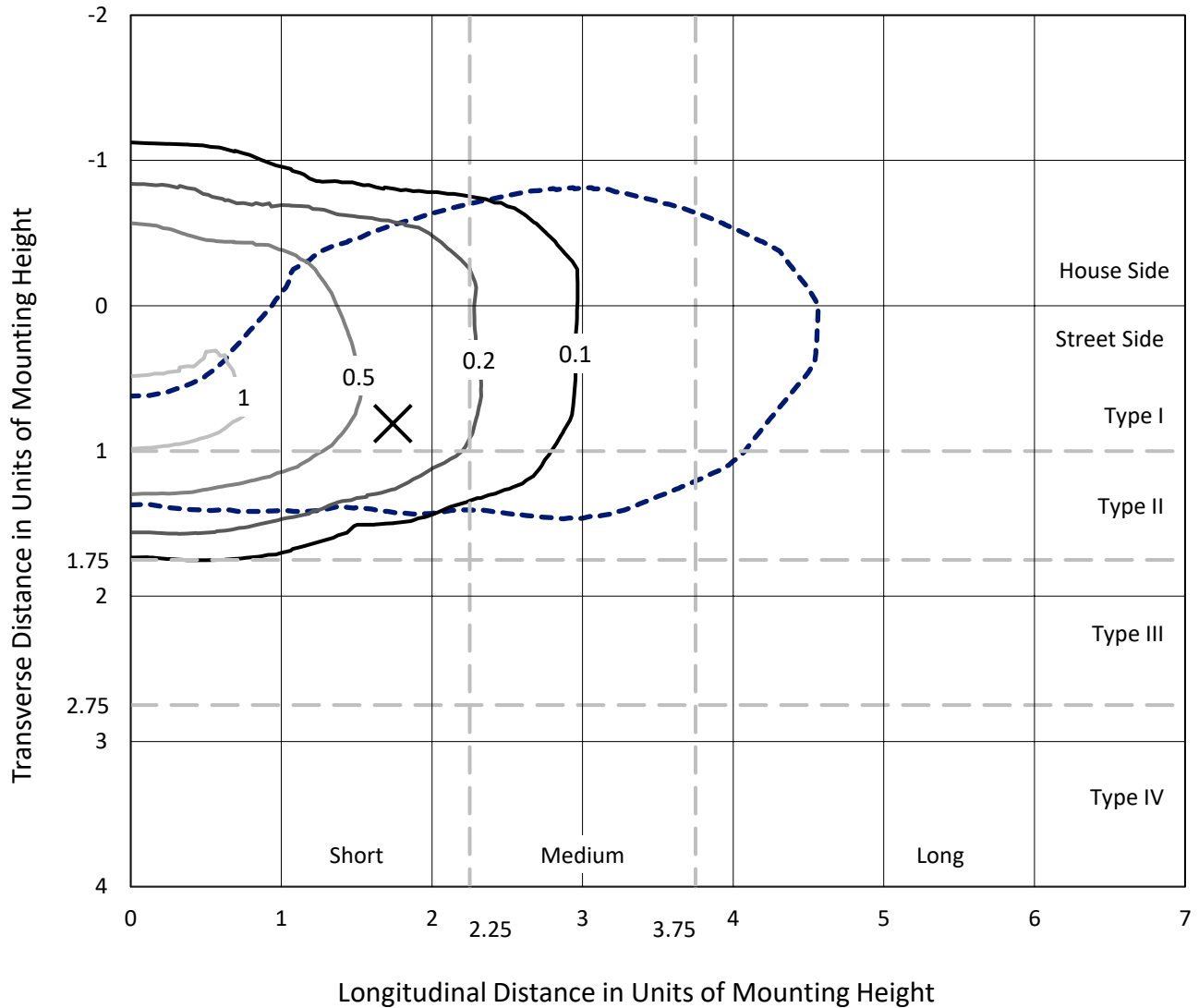
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

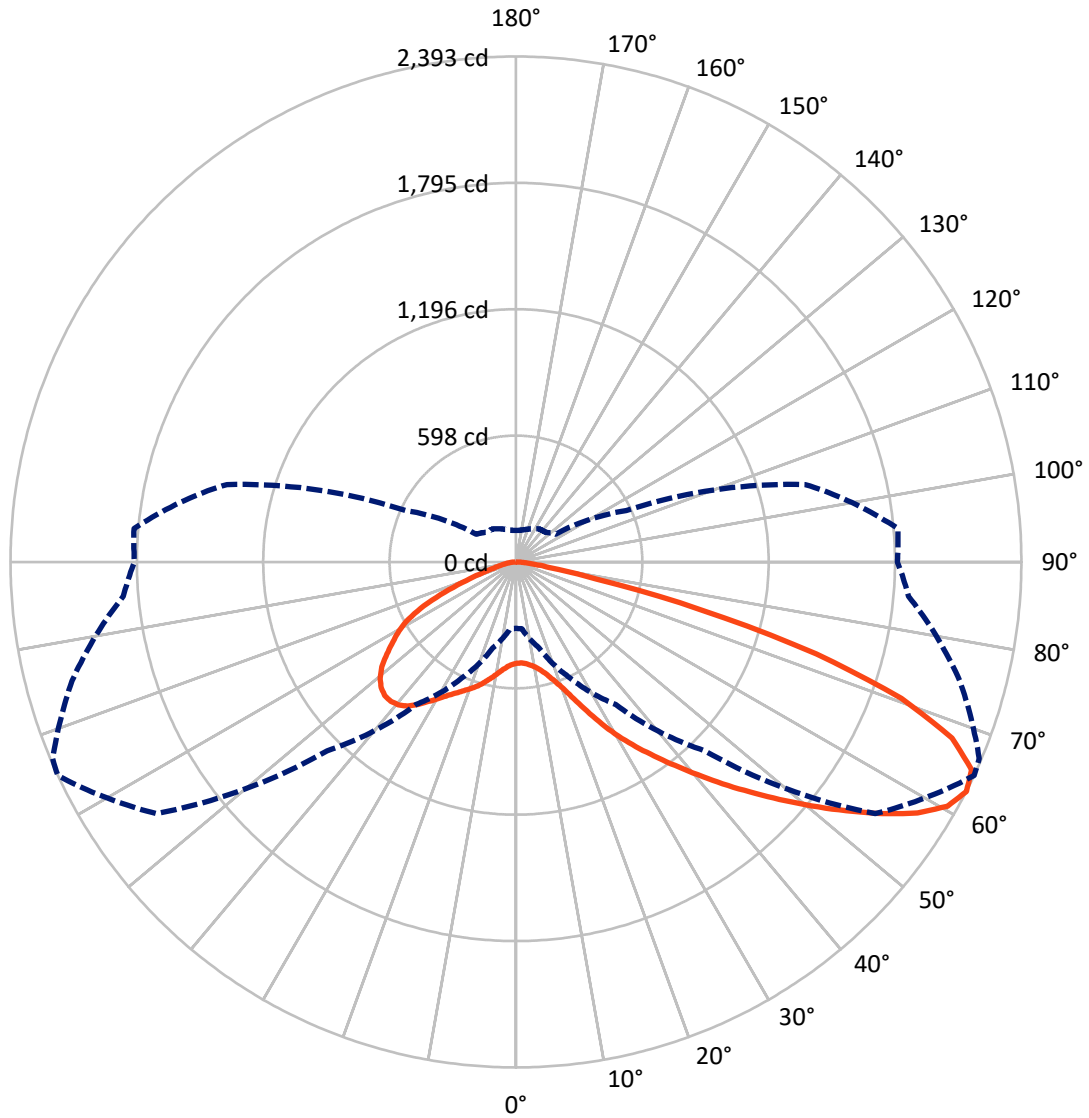
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	1372.7	0.0	1372.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2977.3	0.0	2977.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	4350.0	0.0	4350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.1
10°-20°	162.1	3.7
20°-30°	328.6	7.6
30°-40°	568.6	13.1
40°-50°	860.5	19.8
50°-60°	1008.9	23.2
60°-70°	845.8	19.4
70°-80°	467.0	10.7
80°-90°	60.7	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°	4350.0	100.0
0°-180°	4350.0	100.0

Coefficient of Utilization

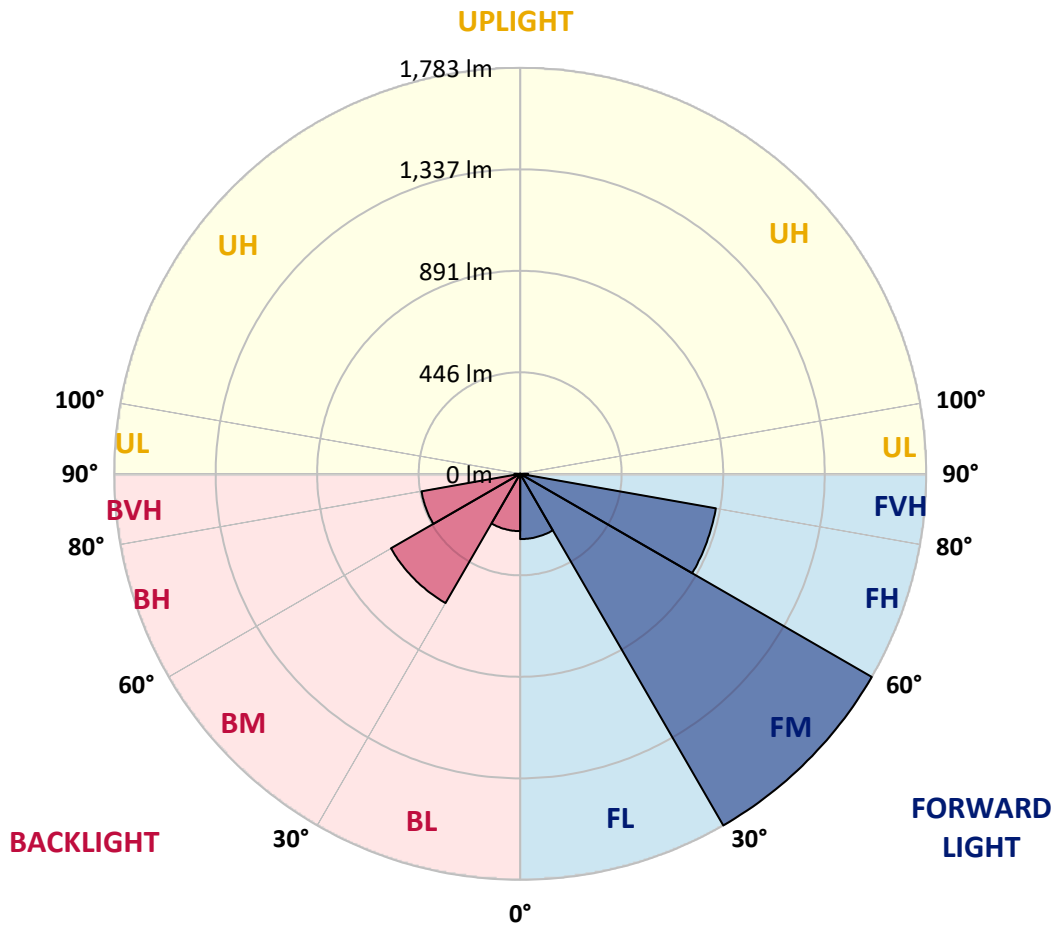


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.7	6.6			
FM (30°-60°)	1782.8	41.0			
FH (60°-80°)	872.5	20.1			G1/1800
FVH (80°-90°)	35.4	0.8			G1/100
BL (0°-30°)	251.7	5.8	B1/500		
BM (30°-60°)	655.3	15.1	B1/1000		
BH (60°-80°)	440.3	10.1	B1/500		G1/500
BVH (80°-90°)	25.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4
2.5°	476.2	474.8	476.0	476.0	476.4	476.2	477.8	478.2	478.9	480.3
5°	471.5	471.2	473.3	475.1	476.9	478.4	480.5	483.4	483.9	485.4
7.5°	469.9	468.5	471.7	473.9	478.2	482.1	487.5	492.4	494.5	495.1
10°	482.1	479.8	482.7	484.1	487.7	491.5	497.9	505.8	508.0	510.7
12.5°	502.8	500.3	504.6	506.7	510.0	513.4	517.7	525.4	526.5	531.5
15°	531.3	528.3	531.0	533.5	539.2	542.3	546.6	554.1	554.1	557.9
17.5°	569.9	566.0	568.0	568.9	572.6	577.3	584.5	591.1	594.4	593.1
20°	627.4	622.7	622.7	618.1	616.8	620.6	630.1	639.1	642.7	635.7
22.5°	713.8	707.1	703.2	687.9	681.8	682.2	691.7	702.8	705.7	693.3
25°	823.7	813.1	807.9	785.4	771.6	759.6	767.1	781.3	785.4	770.0
27.5°	933.7	934.3	929.4	902.3	879.5	857.6	853.8	868.7	872.9	855.6
30°	1087.8	1071.8	1062.3	1029.8	997.3	966.6	950.8	956.9	958.0	937.3
32.5°	1220.7	1216.7	1196.3	1167.9	1126.2	1078.1	1051.7	1042.0	1040.2	1010.6
35°	1372.2	1369.9	1348.5	1314.6	1269.5	1202.7	1155.0	1127.3	1125.0	1083.5
37.5°	1526.1	1526.1	1505.1	1468.1	1421.4	1337.9	1265.4	1221.4	1214.2	1160.0
40°	1648.8	1641.4	1645.2	1629.7	1576.2	1487.5	1388.0	1324.1	1314.4	1249.4
42.5°	1718.6	1716.1	1739.1	1756.5	1734.6	1663.7	1522.9	1435.3	1421.8	1347.8
45°	1734.1	1731.4	1772.5	1836.2	1866.9	1837.7	1669.6	1552.5	1536.0	1450.7
47.5°	1698.3	1692.8	1753.1	1853.5	1951.9	2003.2	1828.5	1679.5	1655.6	1550.9
50°	1590.4	1585.2	1676.4	1809.8	1980.6	2115.6	2000.9	1814.3	1777.7	1658.3
52.5°	1355.9	1358.4	1501.2	1684.5	1942.9	2185.5	2149.4	1956.2	1912.2	1768.2
55°	1056.2	1061.6	1237.2	1439.0	1792.2	2174.9	2250.7	2102.5	2058.7	1871.6
57.5°	756.3	780.2	944.7	1144.4	1502.6	2006.8	2272.9	2241.5	2199.1	1984.4
60°	490.2	494.5	663.7	865.0	1144.2	1708.0	2227.9	2346.9	2313.7	2099.5
62.5°	314.2	317.1	420.2	605.1	823.5	1263.6	2076.7	2392.7	2382.5	2175.6
65°	230.9	228.6	282.3	399.9	554.7	779.3	1783.1	2370.6	2390.7	2223.2
67.5°	192.7	189.6	216.0	276.9	408.7	442.6	1319.3	2226.8	2300.4	2217.8
70°	175.6	172.9	188.9	205.6	318.9	296.3	665.1	1935.9	2049.2	2156.2
72.5°	148.7	144.0	165.9	182.6	248.0	227.3	274.9	1487.0	1625.1	1958.7
75°	115.3	112.2	130.9	160.7	186.4	177.4	173.8	903.0	1053.7	1514.8
77.5°	91.4	87.1	104.3	125.3	167.7	133.8	126.6	388.9	538.3	967.1
80°	68.8	65.0	79.2	99.1	128.9	100.9	81.9	158.7	202.9	490.0
82.5°	49.0	45.6	55.3	72.7	86.7	90.5	50.3	88.9	100.0	188.9
85°	31.4	29.3	37.0	45.6	55.1	58.2	30.7	46.5	51.0	77.9
87.5°	17.2	14.0	19.9	21.2	25.5	23.2	14.7	16.9	18.3	28.2
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°
479.4	0°	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4	479.4
480.3	2.5°	481.2	481.8	484.1	484.8	486.3	488.4	489.7	491.1	491.1	492.4
487.5	5°	487.7	489.3	494.0	496.5	500.6	504.6	507.1	510.0	511.8	512.8
499.0	7.5°	500.3	502.8	509.6	513.9	520.9	526.5	530.4	534.4	535.3	537.8
515.0	10°	517.5	520.4	528.1	536.2	544.6	551.6	555.2	558.1	559.2	559.7
535.5	12.5°	537.1	541.4	551.3	561.3	570.1	576.2	577.1	576.4	573.2	570.5
560.8	15°	561.3	565.1	576.2	587.0	595.6	596.7	591.1	587.5	583.6	582.9
589.0	17.5°	590.2	592.2	602.3	613.0	613.6	609.8	601.4	598.1	594.4	592.0
625.8	20°	623.8	623.1	630.3	634.8	630.1	618.4	605.7	600.1	596.5	593.5
671.0	22.5°	664.0	658.8	657.9	656.7	644.1	619.5	602.3	595.1	589.5	585.4
733.9	25°	722.4	702.6	688.8	681.1	652.7	613.4	591.5	575.5	564.9	557.9
810.9	27.5°	795.5	762.1	727.4	708.6	652.7	601.0	565.3	539.4	522.0	514.8
885.4	30°	865.3	830.3	779.1	741.8	651.1	580.7	523.1	487.0	466.7	459.5
949.0	32.5°	924.8	886.7	833.9	778.2	647.3	547.7	470.8	430.8	411.2	402.6
1012.0	35°	980.1	939.5	889.0	818.1	637.1	499.4	413.2	382.8	360.9	347.1
1076.1	37.5°	1036.8	988.5	941.1	854.2	618.8	443.0	369.0	343.0	317.3	298.8
1144.2	40°	1098.4	1040.6	996.8	875.7	588.8	389.3	334.7	311.0	283.7	264.0
1222.8	42.5°	1170.4	1103.1	1058.9	886.7	547.7	351.2	312.3	289.1	263.4	247.3
1306.9	45°	1245.5	1172.0	1115.6	886.5	501.9	333.3	305.1	282.1	253.7	237.0
1393.4	47.5°	1324.3	1244.0	1164.5	872.0	462.2	335.8	301.1	267.0	235.6	219.4
1480.7	50°	1403.3	1322.7	1211.9	845.0	445.3	330.4	285.9	245.8	208.8	194.1
1562.6	52.5°	1481.6	1406.5	1252.8	806.4	428.1	310.3	266.5	218.2	197.7	187.5
1647.3	55°	1560.4	1489.3	1297.2	750.2	385.2	286.8	234.0	207.9	188.9	179.6
1730.1	57.5°	1639.4	1585.0	1339.4	694.0	331.3	258.0	216.2	195.2	180.1	172.2
1799.4	60°	1721.5	1694.4	1383.0	642.3	278.0	220.9	203.1	185.1	169.7	160.9
1865.9	62.5°	1806.1	1814.9	1417.1	575.7	229.1	198.4	191.4	172.9	158.0	149.6
1921.0	65°	1891.5	1931.2	1439.4	483.4	185.7	176.9	178.7	159.6	144.4	137.2
1961.4	67.5°	1955.8	2014.9	1433.1	365.8	152.3	156.6	162.9	145.6	131.3	125.7
1954.9	70°	1963.0	2005.0	1370.8	250.5	127.5	136.8	145.3	131.8	117.1	113.1
1862.8	72.5°	1866.9	1869.6	1197.2	163.6	107.9	120.1	126.8	117.8	103.6	99.5
1629.7	75°	1614.8	1546.2	879.0	107.9	90.3	103.1	109.5	103.1	89.4	90.3
1219.4	77.5°	1223.4	1095.0	533.7	76.7	75.4	86.7	95.2	90.7	79.0	88.7
613.2	80°	630.3	592.4	238.1	57.3	59.6	69.3	78.3	72.4	62.5	59.6
137.0	82.5°	144.4	167.9	93.9	41.1	43.1	49.9	59.8	54.4	44.9	37.9
57.1	85°	50.6	55.3	41.5	25.7	25.3	31.1	40.6	36.3	30.5	24.4
24.1	87.5°	16.0	21.0	15.6	10.4	10.8	14.0	18.7	17.2	14.2	9.3
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>
479.4
492.4
513.2
536.9
558.6
570.5
582.9
592.2
593.8
586.8
560.6
518.4
463.8
406.9
351.6
303.8
267.9
250.5
239.7
221.6
195.0
187.5
178.7
170.8
160.2
149.4
137.0
125.9
113.3
99.3
87.1
78.1
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