

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: P938825

Luminaire Tested: **GALN-SB1A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

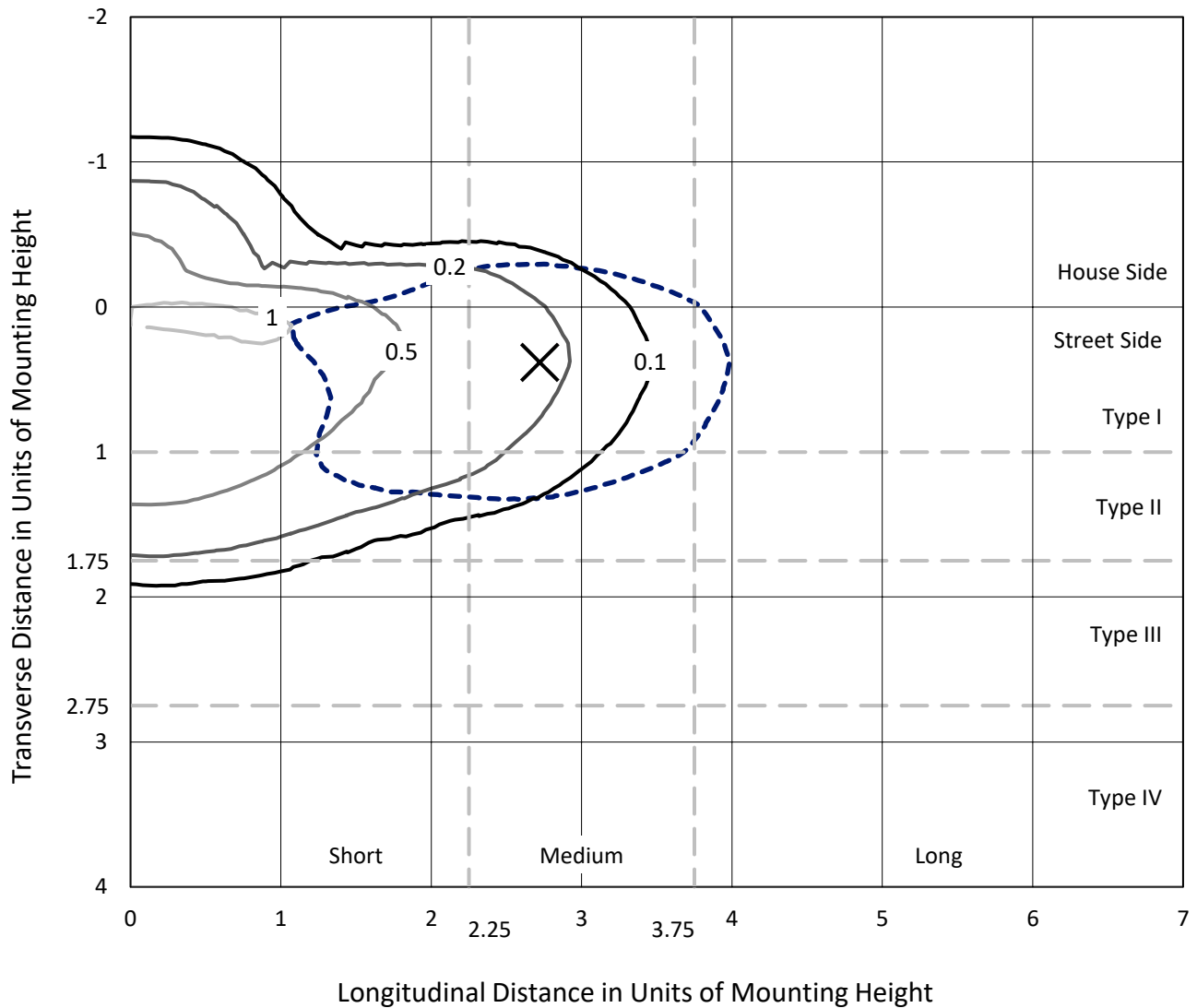
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938825
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Iso-Footcandle Lines of Horizontal Illumination

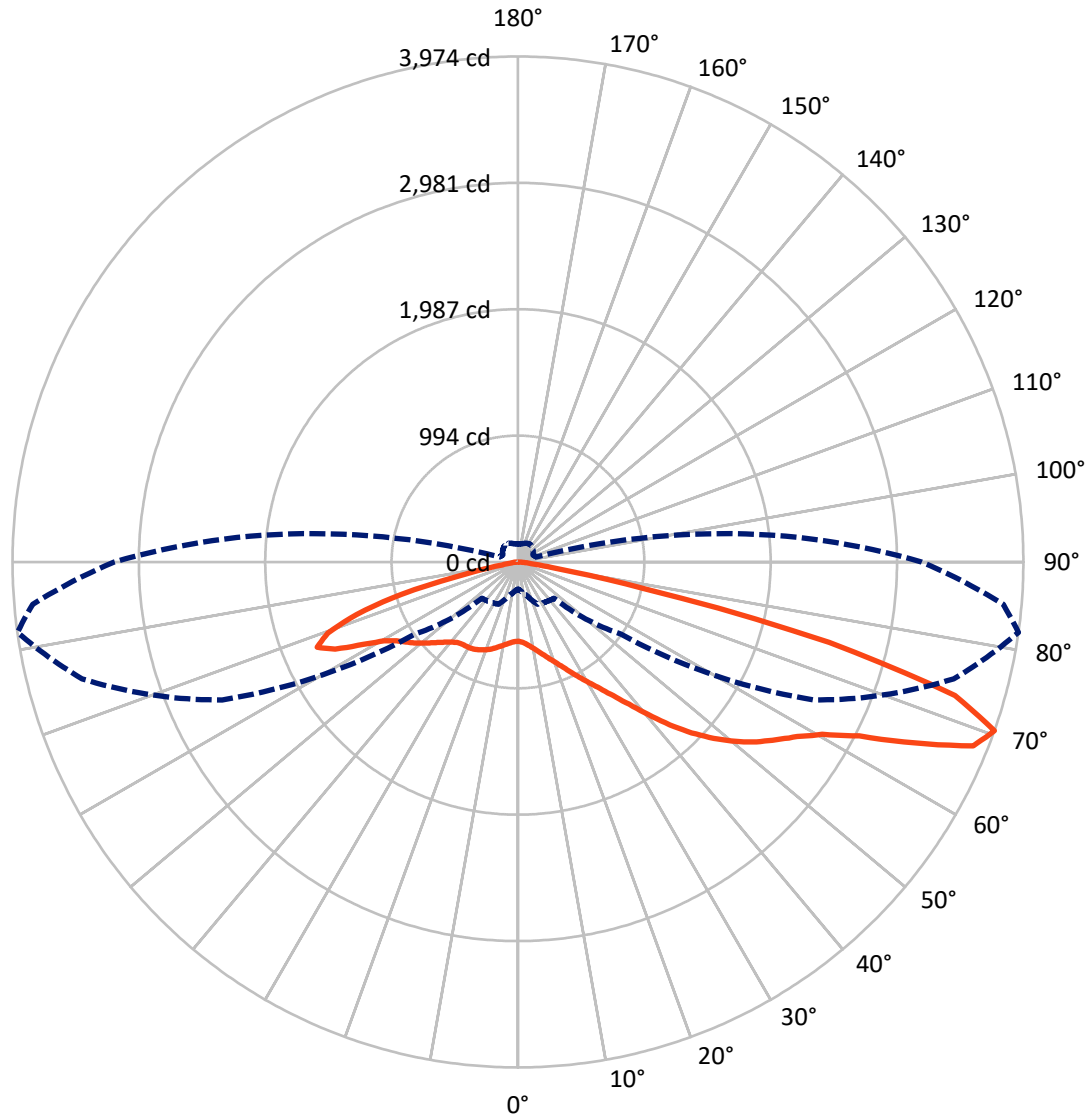
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P938825
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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.5	0.0	1048.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3204.5	0.0	3204.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	4253.0	0.0	4253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.4
10°-20°	169.1	4.0
20°-30°	283.0	6.7
30°-40°	442.1	10.4
40°-50°	704.0	16.6
50°-60°	979.8	23.0
60°-70°	1024.9	24.1
70°-80°	535.7	12.6
80°-90°	55.6	1.3
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°	4253.0	100.0
0°-180°	4253.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938825

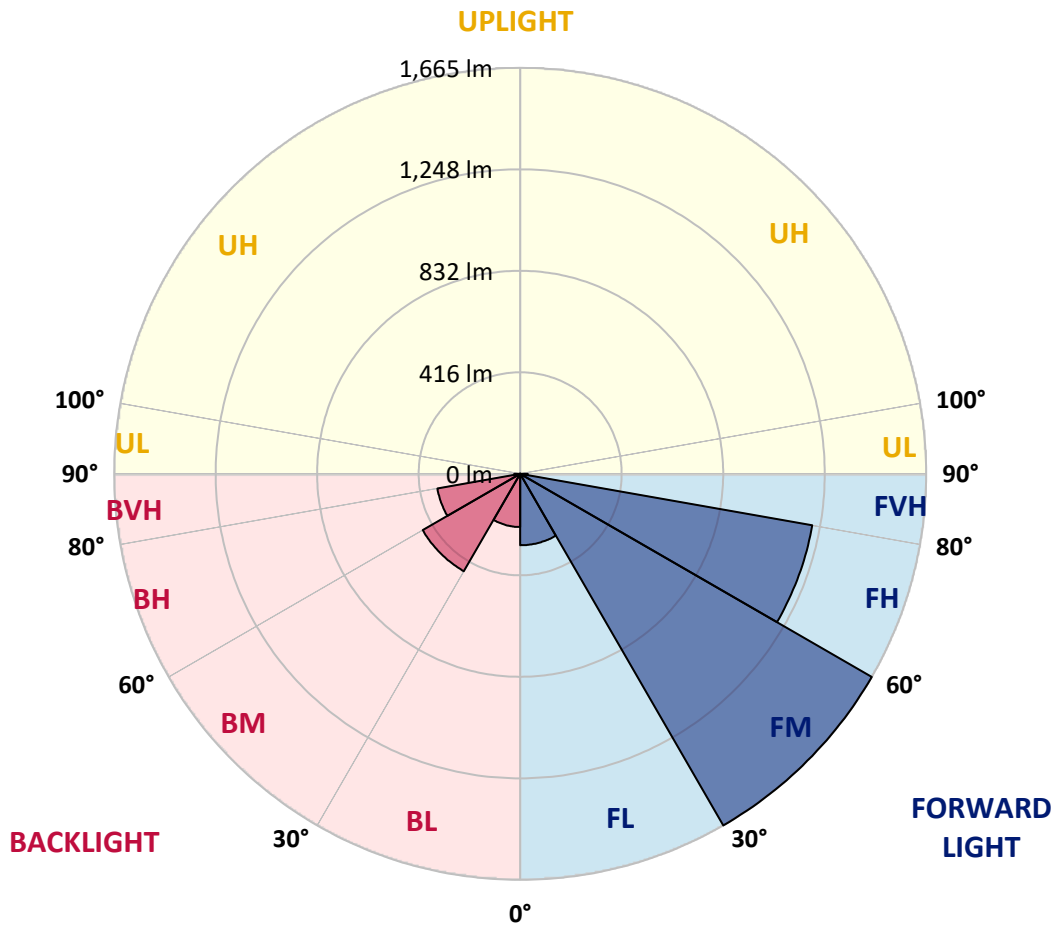
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.9	6.9			
FM (30°-60°)	1664.6	39.1			
FH (60°-80°)	1215.9	28.6			G1/1800
FVH (80°-90°)	31.1	0.7			G1/100
BL (0°-30°)	218.1	5.1	B1/500		
BM (30°-60°)	461.3	10.8	B1/1000		
BH (60°-80°)	344.6	8.1	B1/500		G1/500
BVH (80°-90°)	24.5	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 Medium



REPORT NUMBER: P938825

CATALOG NUMBER: GALN-SB1A-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
2.5°	638.4	642.0	640.9	639.8	639.8	638.2	638.0	635.7	633.9	631.0
5°	646.6	650.4	649.9	650.8	653.8	654.5	655.1	653.8	650.2	646.6
7.5°	639.3	643.6	645.0	650.4	659.4	667.5	673.6	676.1	672.7	667.5
10°	615.0	619.7	624.4	637.3	653.3	672.5	688.8	698.5	697.8	692.8
12.5°	565.5	570.5	580.7	605.7	635.1	668.9	699.1	719.5	726.5	722.8
15°	526.1	530.3	538.0	563.7	601.9	653.3	703.0	742.5	760.3	758.3
17.5°	524.9	526.7	531.5	543.7	573.0	629.0	698.9	765.0	799.1	798.9
20°	544.8	545.5	548.2	550.6	567.3	610.5	688.5	783.8	842.7	842.7
22.5°	572.3	571.9	574.6	572.3	580.4	608.9	682.0	800.2	891.2	894.8
25°	613.6	611.4	610.7	605.5	607.1	623.5	689.2	819.0	948.7	956.2
27.5°	668.7	665.1	662.6	650.6	646.6	653.8	711.3	841.5	1012.8	1025.7
30°	740.4	733.9	730.3	709.5	694.9	696.0	744.7	871.6	1079.9	1100.6
32.5°	838.4	828.2	818.5	784.5	757.6	748.8	787.8	913.1	1152.5	1185.7
35°	948.1	939.9	929.6	877.0	835.7	815.4	846.1	971.1	1237.6	1290.2
37.5°	1053.7	1046.7	1051.7	980.8	927.5	898.0	922.3	1048.9	1342.5	1420.2
40°	1162.9	1157.5	1158.2	1090.5	1028.4	995.2	1014.9	1146.7	1462.8	1574.8
42.5°	1281.6	1277.6	1264.0	1204.0	1134.2	1103.3	1121.4	1259.5	1591.9	1750.8
45°	1414.5	1412.1	1399.4	1330.6	1250.7	1215.9	1240.3	1384.1	1721.7	1916.4
47.5°	1529.4	1531.4	1529.9	1471.9	1389.0	1338.0	1367.1	1514.1	1842.4	2072.2
50°	1584.7	1595.3	1610.9	1592.8	1541.4	1489.5	1495.1	1639.5	1957.5	2218.2
52.5°	1555.8	1575.9	1618.3	1647.2	1667.1	1656.2	1641.1	1764.1	2065.8	2350.0
55°	1448.2	1476.4	1546.8	1616.5	1717.8	1796.6	1816.5	1902.2	2171.5	2466.0
57.5°	1252.1	1297.9	1361.1	1502.1	1672.7	1864.5	2020.9	2093.8	2283.4	2589.9
60°	915.8	977.2	1055.7	1265.6	1514.7	1828.2	2194.9	2388.1	2442.5	2750.3
62.5°	586.1	624.0	696.2	893.9	1180.3	1642.0	2248.2	2756.0	2712.2	3013.5
65°	401.3	425.6	491.7	602.8	763.0	1222.3	2105.6	3031.7	3140.5	3430.5
67.5°	291.6	310.1	366.5	463.8	497.2	723.3	1633.9	3019.1	3556.9	3860.2
70°	212.6	225.7	273.1	366.5	382.5	402.4	989.8	2566.4	3547.9	3974.4
72.5°	157.5	166.5	198.4	284.4	309.6	271.7	489.9	1865.2	3048.7	3594.8
75°	114.0	120.7	144.2	217.6	247.8	206.9	244.4	1090.0	2126.5	2528.7
77.5°	87.1	92.3	107.6	159.3	198.4	155.3	151.7	501.5	1008.3	1013.3
80°	70.0	73.3	81.7	112.2	152.1	116.2	98.8	202.4	318.7	269.7
82.5°	51.5	57.1	69.1	78.8	108.8	80.1	60.3	102.2	121.2	104.3
85°	29.3	33.2	41.8	56.4	69.5	49.0	34.5	45.4	56.4	46.3
87.5°	10.4	13.5	14.7	22.1	30.2	20.3	13.3	13.1	18.5	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938825
 CATALOG NUMBER: GALN-SB1A-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
623.5	0°	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
630.3	2.5°	628.1	626.9	622.4	616.3	610.0	603.9	601.9	597.6	594.7	593.1
645.0	5°	640.7	637.1	626.5	612.9	598.7	583.4	572.5	562.6	555.4	548.6
665.1	7.5°	658.7	652.4	634.1	610.5	585.2	559.7	540.7	526.3	516.6	510.3
688.5	10°	679.7	670.0	642.0	606.6	567.6	531.0	508.7	496.3	490.2	486.8
715.4	12.5°	703.9	690.1	650.2	597.8	540.7	499.0	483.6	480.0	480.2	480.5
749.2	15°	733.7	714.5	656.7	578.6	505.7	474.4	471.7	477.5	483.6	486.6
787.6	17.5°	767.3	740.2	657.8	547.0	471.4	458.6	467.1	479.8	489.0	493.1
830.5	20°	803.4	766.4	649.7	502.4	443.2	445.7	461.1	477.3	487.5	492.7
879.5	22.5°	844.7	794.4	630.3	455.4	420.2	431.7	449.8	465.6	476.2	481.4
937.0	25°	891.9	825.7	599.8	415.9	400.3	415.9	434.0	447.1	455.6	460.4
1001.3	27.5°	944.2	858.5	559.2	384.6	383.0	399.7	414.6	424.7	429.2	432.8
1069.7	30°	996.8	888.3	510.0	360.9	367.9	383.6	394.3	398.8	400.1	400.8
1146.0	32.5°	1053.7	914.0	458.3	341.2	353.4	368.1	374.4	376.4	370.1	365.8
1238.5	35°	1122.5	941.5	407.8	325.7	339.2	351.8	353.9	352.1	344.6	335.8
1354.5	37.5°	1207.6	975.8	367.4	314.6	325.9	334.2	331.7	331.3	332.0	321.6
1494.0	40°	1311.9	1020.5	337.8	306.0	315.0	316.8	309.9	313.7	317.1	301.3
1647.0	42.5°	1427.6	1074.4	319.1	300.1	306.0	301.7	290.9	295.2	294.7	274.0
1800.7	45°	1545.7	1133.1	312.6	295.9	297.7	289.1	277.1	278.3	268.8	250.0
1948.0	47.5°	1663.0	1196.1	316.6	292.3	287.3	277.6	268.3	263.4	249.4	235.4
2089.3	50°	1778.1	1262.2	331.5	285.0	273.1	267.4	260.7	251.9	237.0	225.0
2222.9	52.5°	1884.8	1328.8	348.2	273.1	255.2	258.6	254.3	244.2	229.5	217.3
2349.3	55°	1985.9	1395.4	354.8	256.6	238.5	251.0	248.5	229.7	212.1	202.2
2481.5	57.5°	2096.1	1475.5	347.5	235.6	225.0	242.2	232.7	211.9	201.8	194.3
2653.7	60°	2248.6	1601.2	332.0	209.7	212.1	229.1	212.8	204.2	193.2	184.8
2911.9	62.5°	2502.1	1835.6	306.9	183.9	197.0	209.7	203.3	194.8	183.5	175.4
3353.3	65°	2876.7	2161.5	259.8	163.8	180.1	190.7	193.2	184.6	172.9	164.3
3740.1	67.5°	3192.6	2366.0	196.6	147.1	162.7	175.4	182.3	174.0	161.6	153.2
3830.6	70°	3175.3	2217.5	150.1	130.7	147.4	160.2	169.3	162.7	149.4	141.5
3479.5	72.5°	2820.3	1855.1	121.4	114.0	131.8	144.4	155.3	150.3	136.8	129.1
2549.0	75°	2071.9	1316.8	97.0	97.0	112.4	128.0	139.9	136.8	124.3	118.9
1070.2	77.5°	873.4	552.5	76.1	80.6	93.4	109.9	124.8	125.9	115.1	121.9
283.0	80°	232.2	152.3	58.0	63.4	73.3	90.7	108.6	108.1	96.4	90.0
105.2	82.5°	88.5	60.0	41.3	44.7	53.0	69.5	86.0	88.7	77.0	66.6
41.3	85°	34.1	25.7	25.5	26.9	30.9	46.0	65.0	67.3	58.0	49.2
11.5	87.5°	8.8	7.7	9.5	9.0	14.2	24.6	37.2	38.6	35.4	20.5
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>
623.5
594.9
551.3
511.6
487.7
480.9
486.3
494.0
494.0
482.7
461.7
434.2
402.4
367.2
336.3
322.3
301.7
273.7
250.7
235.4
224.1
217.6
201.3
193.6
184.4
175.4
164.7
153.5
142.2
129.1
117.4
110.6
83.7
66.6
50.8
29.3
0.0

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