

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: P938995

Luminaire Tested: **GALN-SB1B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938995
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-SB1B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5339 lumens
Efficiency: N/A
Efficacy: 134.1 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

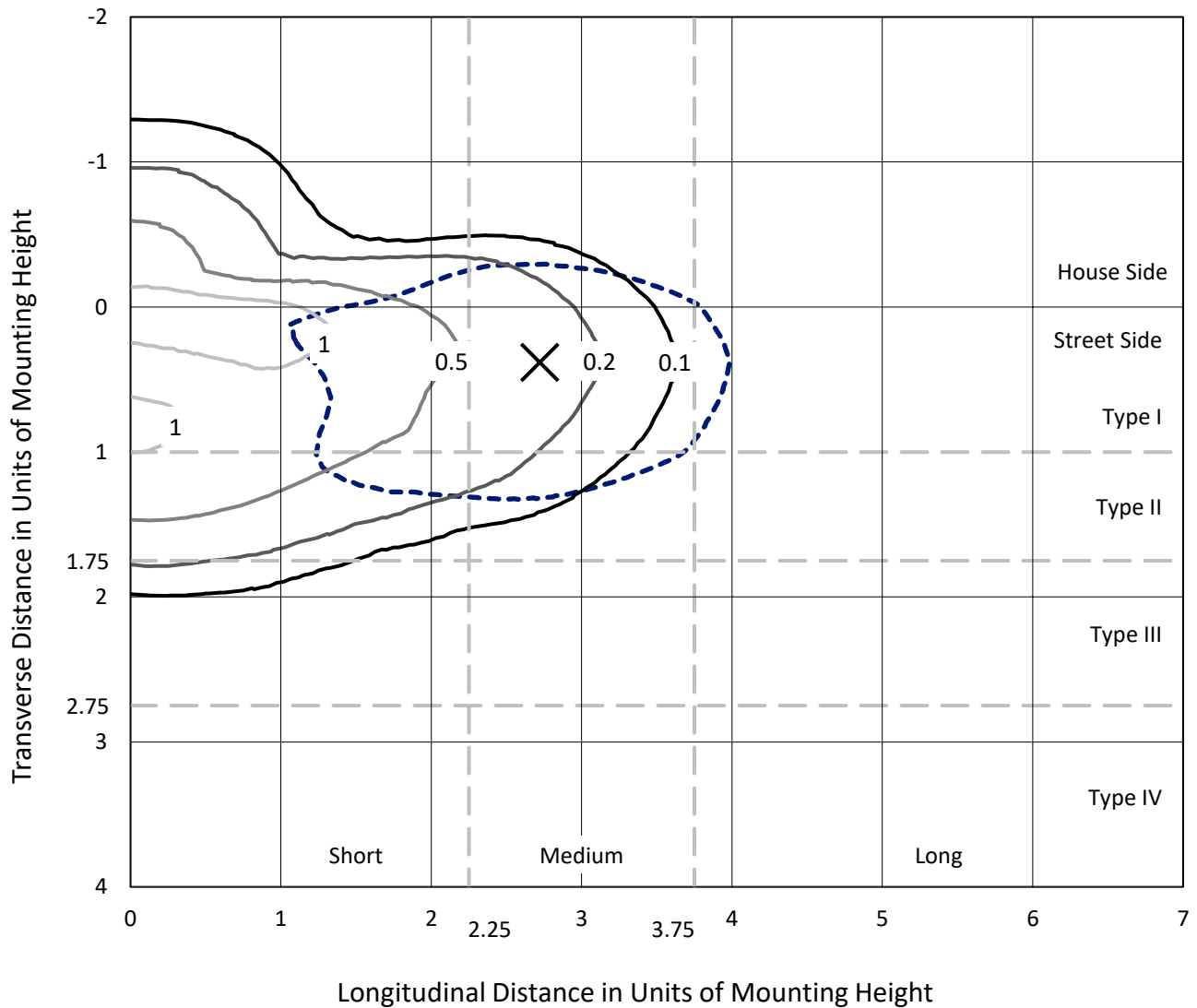
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

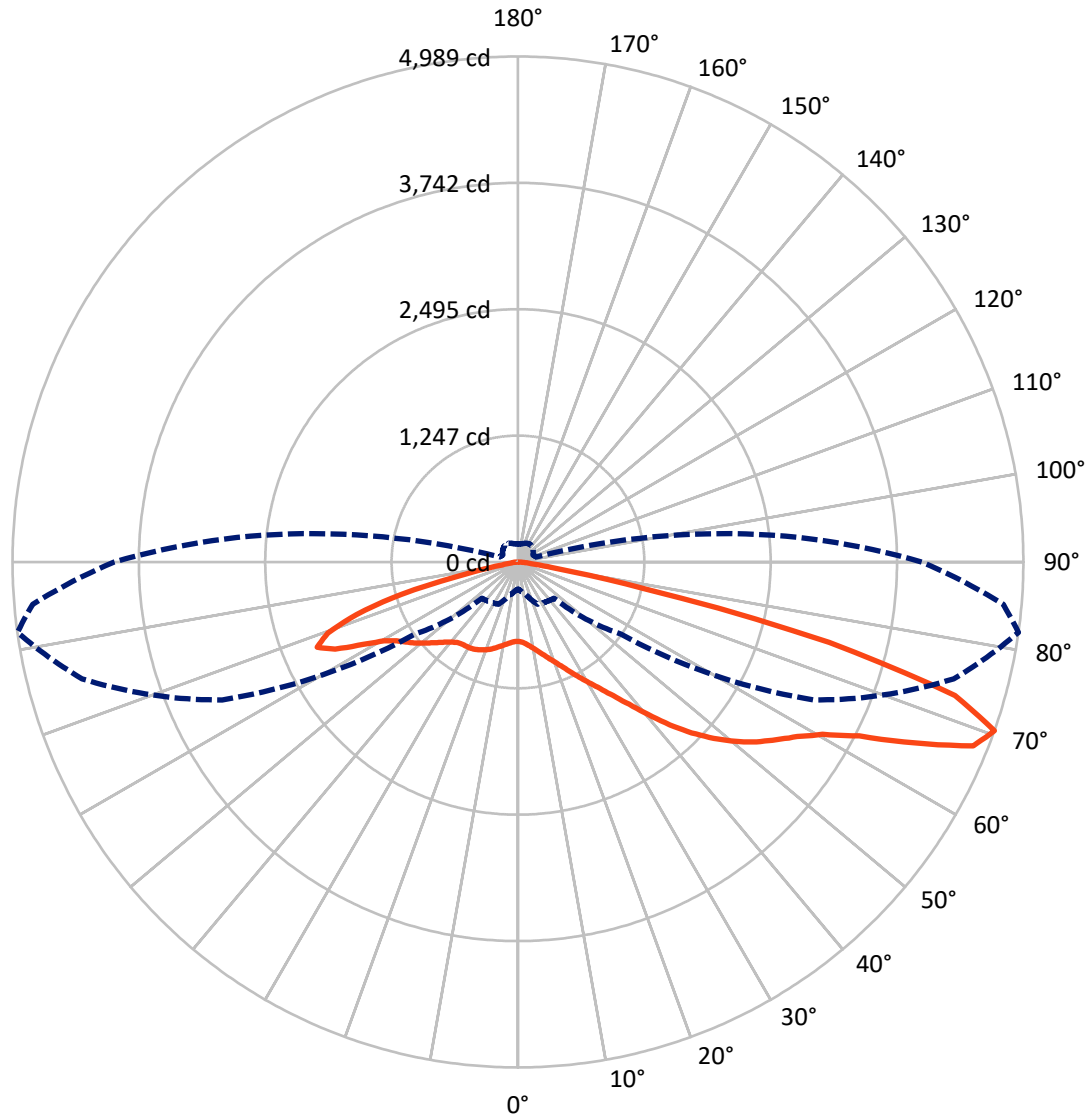
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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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	1316.2	0.0	1316.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4022.8	0.0	4022.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	5339.0	0.0	5339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.4
10°-20°	212.3	4.0
20°-30°	355.2	6.7
30°-40°	554.9	10.4
40°-50°	883.8	16.6
50°-60°	1229.9	23.0
60°-70°	1286.6	24.1
70°-80°	672.4	12.6
80°-90°	69.8	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°	5339.0	100.0
0°-180°	5339.0	100.0

Coefficient of Utilization



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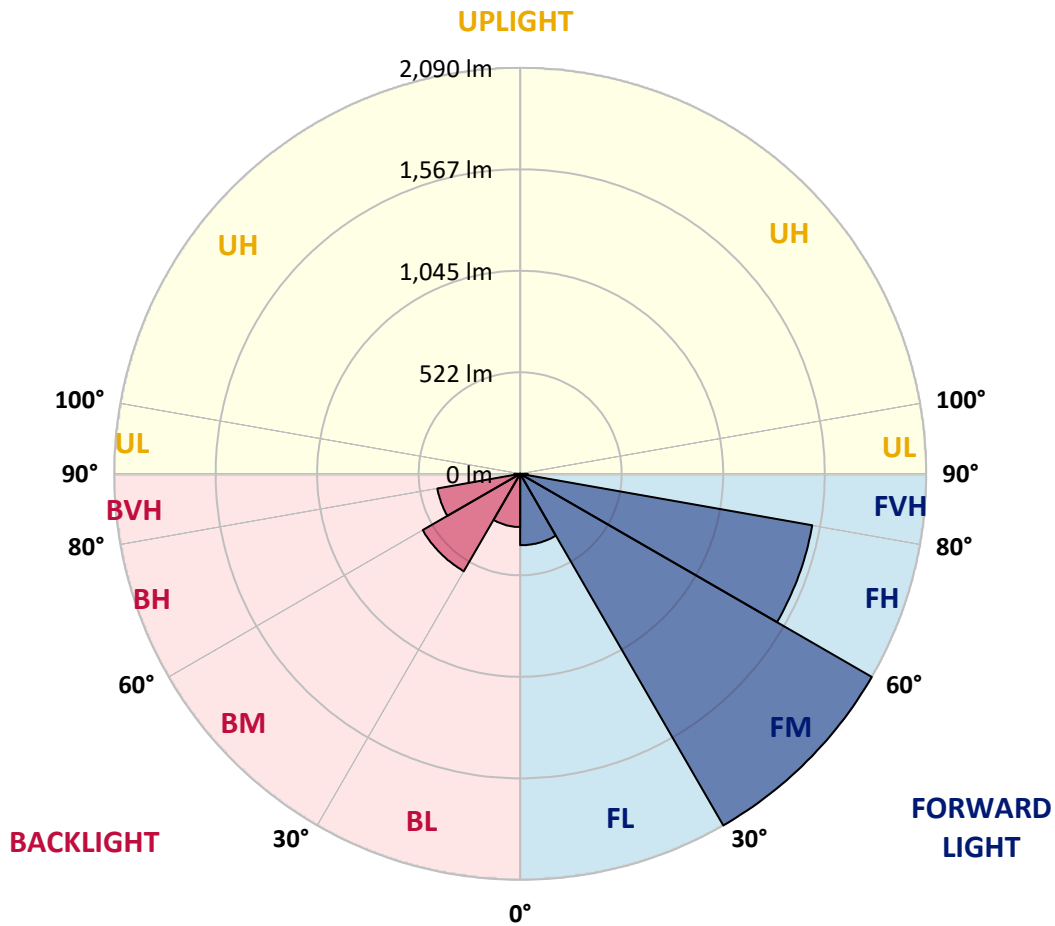
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.7	6.9			
FM (30°-60°)	2089.6	39.1			
FH (60°-80°)	1526.4	28.6			G1/1800
FVH (80°-90°)	39.1	0.7			G1/100
BL (0°-30°)	273.8	5.1	B1/500		
BM (30°-60°)	579.1	10.8	B1/1000		
BH (60°-80°)	432.6	8.1	B1/500		G1/500
BVH (80°-90°)	30.7	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8
2.5°	801.5	806.0	804.6	803.2	803.2	801.2	800.9	798.1	795.8	792.1
5°	811.7	816.5	815.9	817.0	820.7	821.6	822.4	820.7	816.2	811.7
7.5°	802.6	808.0	809.7	816.5	827.8	838.0	845.7	848.8	844.5	838.0
10°	772.0	777.9	783.9	800.0	820.2	844.2	864.6	876.8	876.0	869.7
12.5°	710.0	716.2	728.9	760.4	797.2	839.7	877.7	903.2	911.9	907.4
15°	660.4	665.8	675.4	707.7	755.6	820.2	882.5	932.1	954.4	951.9
17.5°	659.0	661.2	667.2	682.5	719.3	789.6	877.4	960.4	1003.2	1002.9
20°	683.9	684.7	688.1	691.3	712.2	766.3	864.4	983.9	1057.9	1057.9
22.5°	718.5	717.9	721.3	718.5	728.7	764.3	856.1	1004.6	1118.8	1123.3
25°	770.3	767.5	766.6	760.1	762.1	782.8	865.2	1028.1	1191.0	1200.4
27.5°	839.4	834.9	831.8	816.8	811.7	820.7	893.0	1056.4	1271.5	1287.6
30°	929.5	921.3	916.8	890.7	872.3	873.7	934.9	1094.1	1355.6	1381.7
32.5°	1052.5	1039.7	1027.5	984.8	951.0	940.0	989.0	1146.2	1446.8	1488.5
35°	1190.2	1180.0	1166.9	1100.9	1049.1	1023.6	1062.1	1219.0	1553.6	1619.6
37.5°	1322.7	1314.0	1320.2	1231.2	1164.4	1127.3	1157.9	1316.8	1685.4	1782.8
40°	1459.9	1453.1	1453.9	1368.9	1291.0	1249.4	1274.0	1439.5	1836.4	1976.9
42.5°	1608.9	1603.8	1586.8	1511.4	1423.9	1385.1	1407.7	1581.1	1998.4	2197.9
45°	1775.7	1772.6	1756.8	1670.4	1570.1	1526.4	1557.0	1737.5	2161.3	2405.8
47.5°	1919.9	1922.5	1920.5	1847.7	1743.7	1679.7	1716.2	1900.7	2312.9	2601.3
50°	1989.3	2002.7	2022.2	1999.5	1935.0	1869.8	1876.9	2058.2	2457.4	2784.6
52.5°	1953.1	1978.3	2031.6	2067.8	2092.8	2079.2	2060.2	2214.6	2593.3	2950.0
55°	1818.0	1853.4	1941.8	2029.3	2156.5	2255.4	2280.3	2388.0	2725.9	3095.6
57.5°	1571.8	1629.3	1708.6	1885.7	2099.8	2340.6	2537.0	2628.5	2866.5	3251.2
60°	1149.6	1226.7	1325.3	1588.8	1901.5	2295.0	2755.4	2997.9	3066.2	3452.6
62.5°	735.7	783.3	874.0	1122.2	1481.7	2061.3	2822.3	3459.7	3404.7	3782.9
65°	503.7	534.3	617.3	756.7	957.8	1534.4	2643.2	3805.9	3942.4	4306.5
67.5°	366.0	389.3	460.1	582.2	624.1	908.0	2051.1	3790.0	4465.1	4845.9
70°	266.9	283.3	342.8	460.1	480.2	505.1	1242.6	3221.7	4453.8	4989.2
72.5°	197.7	209.1	249.0	357.0	388.7	341.1	615.0	2341.5	3827.1	4512.7
75°	143.1	151.6	181.0	273.1	311.1	259.8	306.8	1368.3	2669.6	3174.4
77.5°	109.4	115.9	135.1	200.0	249.0	194.9	190.4	629.5	1265.8	1272.0
80°	87.8	92.1	102.6	140.8	190.9	145.9	124.1	254.1	400.0	338.5
82.5°	64.6	71.7	86.7	98.9	136.6	100.6	75.6	128.3	152.1	130.9
85°	36.8	41.6	52.4	70.8	87.3	61.5	43.3	56.9	70.8	58.1
87.5°	13.0	17.0	18.4	27.8	38.0	25.5	16.7	16.4	23.2	17.3
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°
782.8	0°	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8
791.3	2.5°	788.4	787.0	781.3	773.7	765.8	758.1	755.6	750.2	746.5	744.5
809.7	5°	804.3	799.8	786.4	769.4	751.6	732.3	718.7	706.3	697.2	688.7
834.9	7.5°	827.0	819.0	796.1	766.3	734.6	702.6	678.8	660.7	648.5	640.5
864.4	10°	853.3	841.1	806.0	761.5	712.5	666.6	638.6	623.0	615.3	611.1
898.1	12.5°	883.6	866.3	816.2	750.5	678.8	626.4	607.1	602.6	602.9	603.2
940.6	15°	921.0	896.9	824.4	726.4	634.9	595.5	592.1	599.5	607.1	610.8
988.7	17.5°	963.2	929.2	825.8	686.7	591.8	575.7	586.4	602.3	613.9	619.0
1042.6	20°	1008.6	962.1	815.6	630.6	556.4	559.5	578.8	599.2	611.9	618.4
1104.0	22.5°	1060.4	997.2	791.3	571.7	527.5	542.0	564.6	584.5	597.8	604.3
1176.3	25°	1119.6	1036.6	753.0	522.1	502.6	522.1	544.8	561.2	572.0	577.9
1257.0	27.5°	1185.3	1077.7	702.0	482.7	480.8	501.7	520.4	533.2	538.8	543.4
1342.9	30°	1251.3	1115.1	640.3	453.0	461.8	481.6	494.9	500.6	502.3	503.1
1438.6	32.5°	1322.7	1147.4	575.4	428.4	443.7	462.1	470.0	472.5	464.6	459.2
1554.8	35°	1409.1	1181.9	511.9	408.8	425.8	441.7	444.2	442.0	432.6	421.6
1700.4	37.5°	1516.0	1225.0	461.2	394.9	409.1	419.6	416.5	415.9	416.7	403.7
1875.5	40°	1646.8	1281.1	424.1	384.2	395.5	397.8	389.0	393.8	398.0	378.2
2067.5	42.5°	1792.2	1348.8	400.6	376.8	384.2	378.8	365.2	370.6	370.0	343.9
2260.5	45°	1940.3	1422.5	392.4	371.4	373.7	362.9	347.9	349.3	337.4	313.9
2445.5	47.5°	2087.7	1501.5	397.5	366.9	360.6	348.5	336.8	330.6	313.0	295.5
2622.8	50°	2232.1	1584.5	416.2	357.8	342.8	335.7	327.2	316.2	297.5	282.5
2790.5	52.5°	2366.1	1668.1	437.1	342.8	320.4	324.7	319.3	306.5	288.1	272.8
2949.2	55°	2493.1	1751.7	445.4	322.1	299.5	315.0	311.9	288.4	266.3	253.8
3115.2	57.5°	2631.3	1852.2	436.3	295.8	282.5	304.0	292.1	266.0	253.3	243.9
3331.4	60°	2822.8	2010.0	416.7	263.2	266.3	287.6	267.2	256.4	242.5	232.0
3655.4	62.5°	3141.0	2304.4	385.3	230.9	247.3	263.2	255.3	244.5	230.3	220.1
4209.6	65°	3611.3	2713.5	326.1	205.7	226.1	239.4	242.5	231.7	217.0	206.2
4695.2	67.5°	4007.9	2970.1	246.8	184.7	204.3	220.1	228.9	218.4	202.8	192.4
4808.8	70°	3986.1	2783.7	188.4	164.0	185.0	201.1	212.5	204.3	187.5	177.6
4368.0	72.5°	3540.4	2328.7	152.4	143.1	165.4	181.3	194.9	188.7	171.7	162.0
3199.9	75°	2601.0	1653.1	121.8	121.8	141.1	160.6	175.6	171.7	156.1	149.3
1343.4	77.5°	1096.4	693.5	95.5	101.1	117.3	138.0	156.7	158.1	144.5	153.0
355.3	80°	291.5	191.2	72.8	79.6	92.1	113.9	136.3	135.7	121.0	113.0
132.0	82.5°	111.1	75.4	51.8	56.1	66.6	87.3	107.9	111.3	96.6	83.6
51.8	85°	42.8	32.3	32.0	33.7	38.8	57.8	81.6	84.4	72.8	61.8
14.4	87.5°	11.0	9.6	11.9	11.3	17.8	30.9	46.7	48.4	44.5	25.8
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>
782.8
746.8
692.1
642.2
612.2
603.7
610.5
620.1
620.1
606.0
579.6
545.1
505.1
460.9
422.1
404.6
378.8
343.6
314.7
295.5
281.3
273.1
252.7
243.1
231.5
220.1
206.8
192.6
178.5
162.0
147.3
138.8
105.1
83.6
63.7
36.8
0.0

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