

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: P945004

Luminaire Tested: **GALN-SB1A-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4008 lumens
Efficiency: N/A
Efficacy: 129.7 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

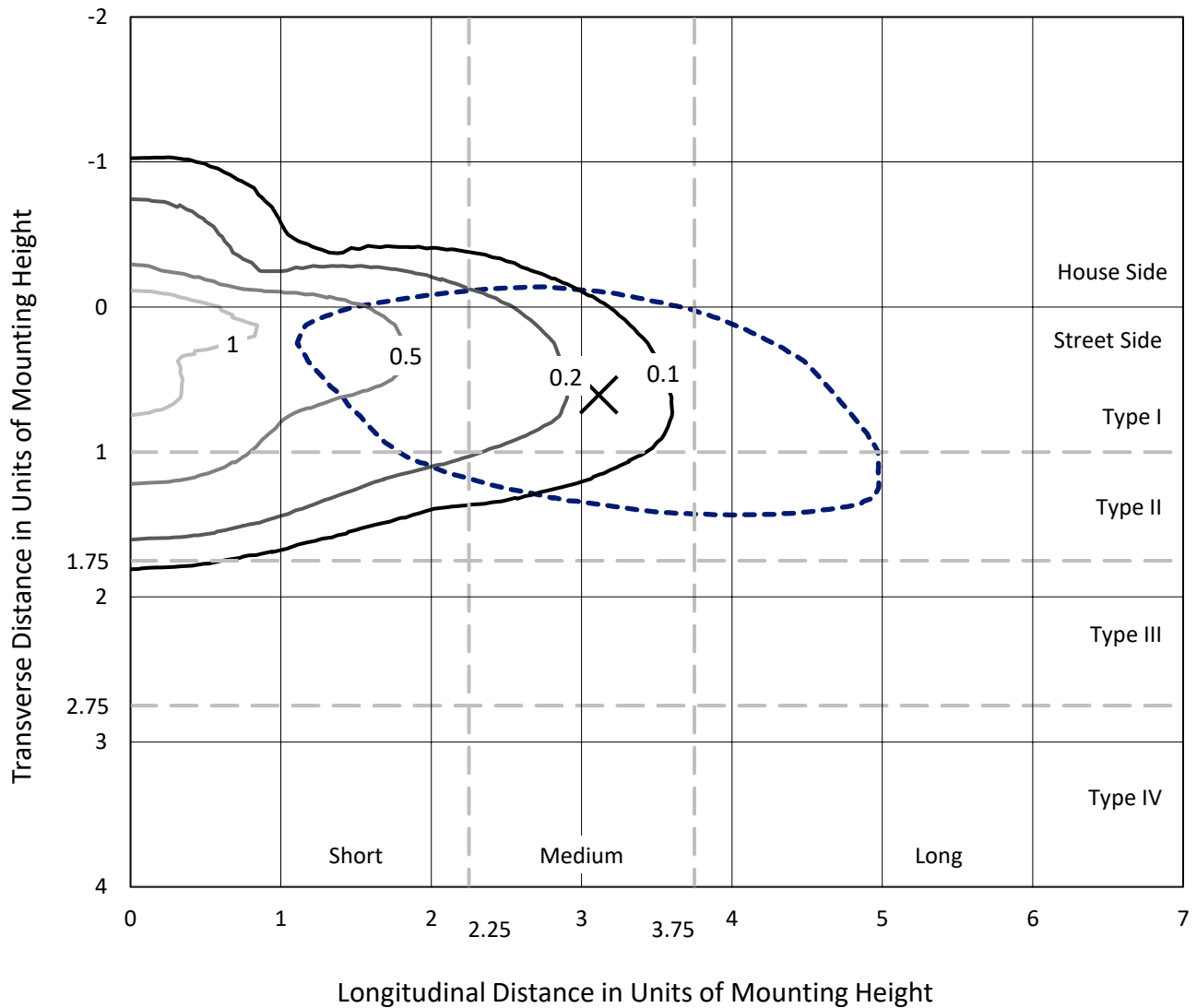
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945004
 CATALOG NUMBER: GALN-SB1A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

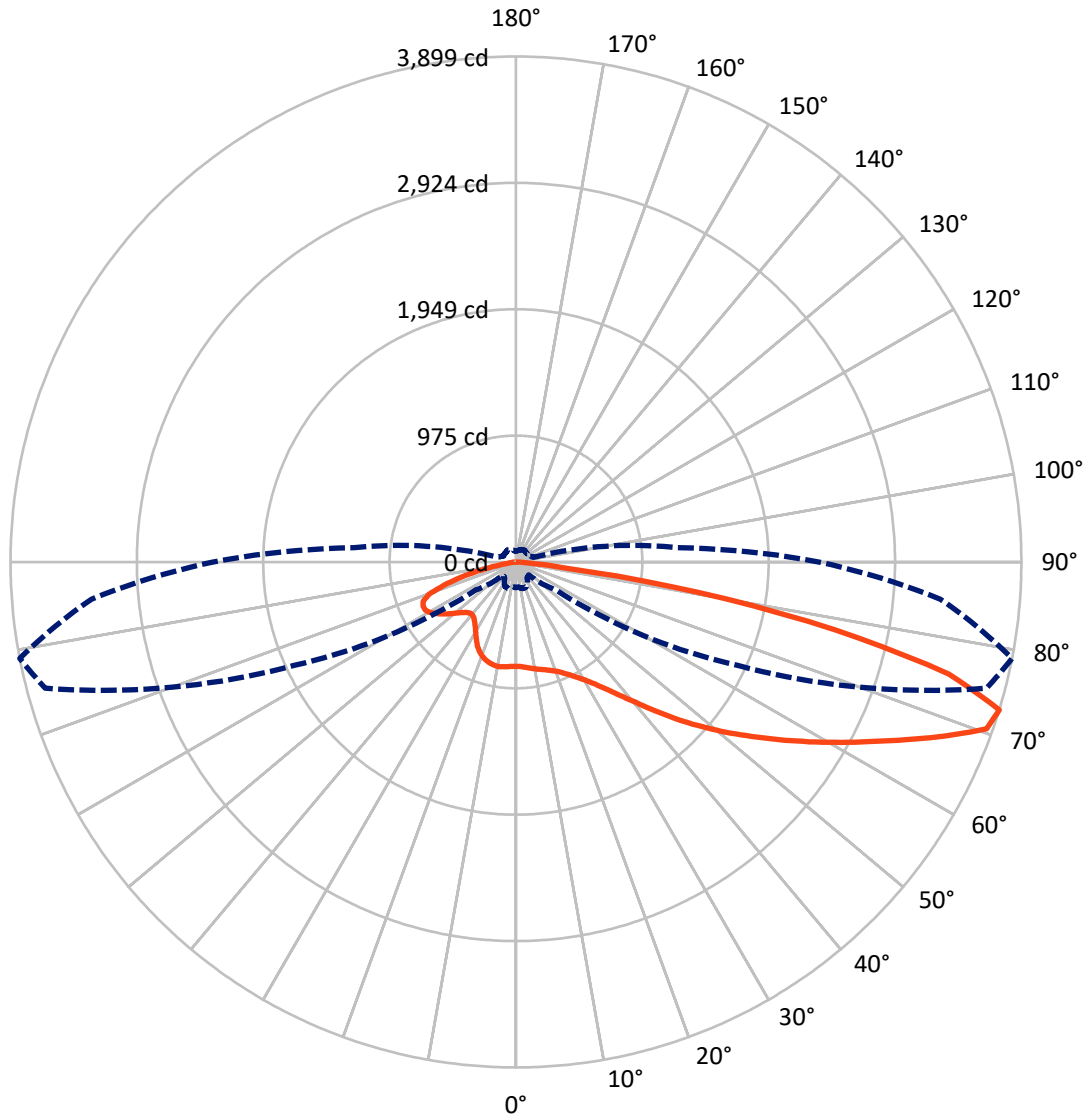
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P945004
CATALOG NUMBER: GALN-SB1A-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	882.0	0.0	882.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3126.0	0.0	3126.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	4008.0	0.0	4008.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.8
10°-20°	190.9	4.8
20°-30°	308.1	7.7
30°-40°	462.4	11.5
40°-50°	656.0	16.4
50°-60°	828.4	20.7
60°-70°	841.3	21.0
70°-80°	573.4	14.3
80°-90°	74.4	1.9
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°	4008.0	100.0
0°-180°	4008.0	100.0



REPORT NUMBER: P945004

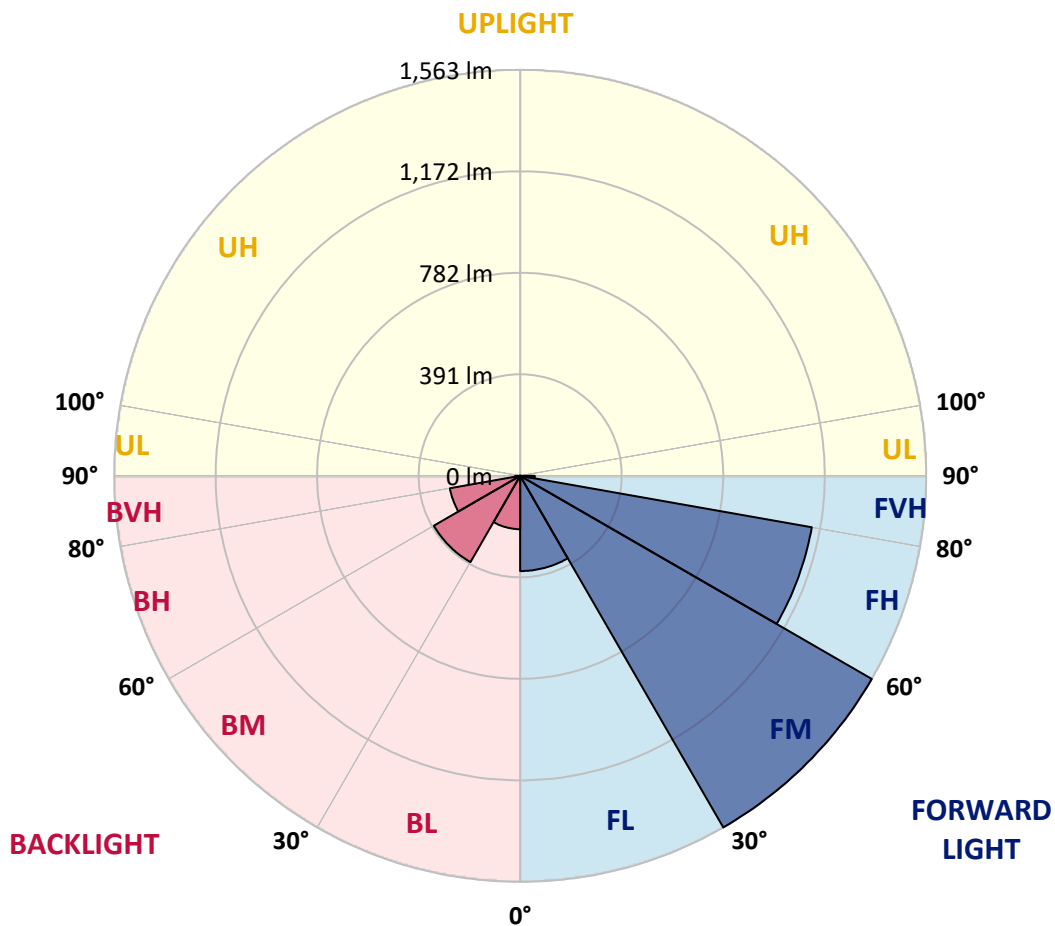
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.6	9.1			
FM (30°-60°)	1563.2	39.0			
FH (60°-80°)	1140.1	28.4			G1/1800
FVH (80°-90°)	56.0	1.4			G1/100
BL (0°-30°)	205.4	5.1	B1/500		
BM (30°-60°)	383.6	9.6	B1/1000		
BH (60°-80°)	274.6	6.9	B1/500		G1/500
BVH (80°-90°)	18.3	0.5			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: P945004

CATALOG NUMBER: GALN-SB1A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6
2.5°	805.0	801.2	803.5	802.7	803.7	805.0	805.4	806.1	808.2	808.0
5°	803.3	799.5	802.7	801.6	804.4	807.3	809.9	812.2	815.6	817.1
7.5°	799.7	797.1	800.3	803.5	808.6	813.0	816.7	822.0	826.8	827.7
10°	778.7	776.8	784.2	792.5	806.5	818.6	826.4	832.6	837.9	838.7
12.5°	756.9	754.5	762.8	774.0	796.7	818.6	835.1	843.2	847.8	850.6
15°	753.3	751.4	756.0	765.8	784.6	812.8	841.0	855.9	859.9	863.1
17.5°	770.6	767.0	769.0	772.3	783.4	807.5	845.7	870.3	876.4	879.8
20°	810.9	805.8	802.9	796.1	794.2	808.4	845.3	887.7	895.7	900.0
22.5°	864.6	861.2	854.8	837.6	819.0	818.8	853.3	909.9	925.0	929.0
25°	929.4	924.4	916.3	893.0	857.1	839.3	866.9	938.3	963.6	964.6
27.5°	1004.1	996.4	985.4	954.7	906.3	871.6	887.7	971.0	1007.9	1007.5
30°	1082.7	1075.1	1063.4	1026.1	965.3	915.0	916.5	1006.2	1060.5	1058.1
32.5°	1140.2	1134.5	1132.1	1103.3	1033.1	966.3	949.6	1045.2	1125.3	1123.2
35°	1184.3	1176.9	1179.6	1165.0	1107.1	1023.8	990.1	1091.6	1204.2	1204.0
37.5°	1227.9	1221.4	1223.7	1214.0	1175.6	1096.7	1039.5	1148.4	1301.9	1306.6
40°	1267.8	1260.8	1270.1	1261.0	1228.8	1174.3	1095.7	1212.7	1415.1	1424.1
42.5°	1291.8	1286.2	1301.7	1301.9	1275.0	1239.8	1157.3	1283.5	1546.2	1566.1
45°	1300.0	1298.1	1321.4	1326.3	1315.9	1277.8	1212.9	1360.7	1687.4	1723.0
47.5°	1291.1	1287.5	1319.7	1337.8	1346.0	1295.6	1258.9	1444.2	1831.5	1883.7
50°	1246.2	1239.2	1287.1	1325.0	1354.5	1307.2	1305.3	1540.7	1995.4	2052.4
52.5°	1165.4	1160.1	1214.6	1280.5	1335.9	1313.0	1357.5	1646.0	2151.0	2224.8
55°	1062.2	1055.2	1115.2	1201.2	1289.4	1311.1	1409.6	1763.9	2334.6	2409.5
57.5°	898.5	884.5	960.4	1062.2	1213.7	1308.7	1463.9	1881.1	2521.2	2610.9
60°	659.8	639.0	732.1	852.7	1065.8	1286.0	1531.1	2012.6	2745.1	2825.8
62.5°	384.2	372.1	432.9	545.5	803.3	1152.5	1568.9	2165.4	2965.1	3049.9
65°	298.3	294.9	300.2	308.9	447.1	862.9	1452.5	2314.5	3245.0	3304.3
67.5°	272.9	270.3	272.6	256.3	226.8	480.6	1149.1	2352.2	3544.8	3580.8
70°	242.5	239.6	247.2	233.2	178.5	218.6	742.4	2215.3	3783.3	3850.9
72.5°	197.6	194.2	212.0	205.6	150.3	140.3	372.9	1889.8	3758.3	3898.6
75°	151.8	149.9	171.1	176.4	122.5	110.5	178.9	1404.8	3307.3	3448.7
77.5°	117.9	116.4	127.2	146.5	98.8	85.7	110.0	891.1	2492.4	2517.2
80°	88.4	84.2	94.1	113.4	77.0	62.5	74.6	519.6	1575.4	1428.1
82.5°	55.3	53.2	61.5	75.7	54.3	43.0	48.5	287.1	631.4	371.9
85°	31.6	30.7	33.5	43.2	29.5	24.8	27.8	126.8	115.3	79.3
87.5°	12.7	12.3	15.3	19.3	10.8	9.1	9.8	30.5	25.4	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945004
 CATALOG NUMBER: GALN-SB1A-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
804.6	0°	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6
807.7	2.5°	806.9	806.9	803.9	799.3	794.0	790.6	785.1	783.6	777.9	776.2
815.0	5°	816.7	815.0	805.8	792.7	774.7	758.1	739.9	728.5	712.3	706.6
829.2	7.5°	828.9	824.3	808.6	779.8	742.0	704.9	666.3	637.1	609.1	599.1
840.8	10°	840.2	833.6	806.9	756.4	691.1	626.9	565.4	522.4	489.7	476.4
853.8	12.5°	851.4	839.3	795.7	717.6	618.8	531.7	466.2	432.7	412.6	396.5
864.4	15°	862.0	845.1	778.3	665.7	539.6	451.2	402.8	376.1	360.0	349.4
879.8	17.5°	874.3	849.9	752.2	599.8	464.1	395.4	356.0	339.8	336.7	335.4
901.0	20°	891.5	854.4	717.9	526.0	408.5	350.9	330.5	329.0	328.8	328.2
926.5	22.5°	909.9	859.7	672.5	459.0	361.3	323.1	319.5	316.5	314.6	314.4
957.2	25°	931.8	861.4	615.7	404.1	321.0	310.0	305.7	301.3	300.0	300.0
992.2	27.5°	953.0	855.7	549.5	356.4	298.3	297.9	292.4	290.9	290.7	291.3
1032.1	30°	974.2	844.8	483.8	312.3	285.1	285.1	283.2	284.3	285.1	287.3
1086.7	32.5°	1002.8	833.4	428.9	279.6	273.7	271.6	273.5	275.6	276.5	279.2
1158.6	35°	1044.8	825.3	385.2	261.8	261.8	259.1	260.1	259.7	257.8	256.5
1245.5	37.5°	1100.3	824.9	349.2	253.6	251.9	251.4	251.7	248.9	241.5	232.6
1350.7	40°	1167.1	836.4	321.4	247.8	246.6	249.1	247.8	240.4	220.1	204.6
1480.0	42.5°	1256.8	869.0	303.6	240.8	244.7	247.8	242.7	217.1	203.3	192.9
1627.4	45°	1362.4	922.0	294.5	233.4	241.1	244.9	220.3	209.0	198.0	185.5
1788.1	47.5°	1481.9	988.8	292.4	226.4	233.0	235.3	210.7	205.6	193.1	179.6
1949.6	50°	1612.1	1067.9	298.1	218.2	221.3	213.3	207.6	202.9	190.0	176.6
2115.2	52.5°	1746.7	1155.0	309.5	206.9	209.7	200.8	206.3	202.3	188.1	170.0
2286.3	55°	1879.0	1242.8	320.6	193.8	197.8	189.5	202.7	199.7	179.4	159.0
2468.8	57.5°	2013.4	1330.1	331.4	182.1	186.4	178.7	197.0	192.9	169.6	148.8
2668.1	60°	2153.1	1414.9	336.5	170.9	173.8	168.8	188.3	181.3	158.6	138.4
2864.0	62.5°	2284.0	1485.5	328.2	159.6	161.5	159.4	176.8	167.5	147.6	126.8
3068.2	65°	2415.2	1527.5	302.7	148.6	149.0	148.0	160.7	152.6	134.6	116.6
3246.9	67.5°	2534.1	1551.0	262.3	136.7	135.7	135.3	145.6	136.5	122.1	106.4
3382.8	70°	2559.4	1491.3	200.3	122.8	122.8	121.7	129.1	119.8	108.3	95.6
3285.5	72.5°	2337.6	1254.4	142.3	106.9	108.5	106.4	112.6	104.7	94.3	85.9
2831.6	75°	1885.0	919.9	103.5	90.5	93.5	89.9	95.6	90.1	81.2	81.0
1951.3	77.5°	1295.2	568.8	75.1	74.6	76.7	72.1	78.7	75.7	67.6	64.0
849.3	80°	552.7	226.8	54.7	57.7	57.7	53.4	61.1	61.9	54.9	53.2
163.9	82.5°	110.0	64.5	38.4	39.6	37.3	36.0	43.2	47.9	66.1	73.6
49.4	85°	33.1	23.7	23.1	21.6	19.1	19.3	25.4	48.1	59.4	33.9
16.3	87.5°	9.1	5.9	6.1	4.9	4.0	5.3	8.7	36.5	19.9	8.5
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>
804.6
778.9
710.9
600.4
479.3
401.8
351.3
336.2
330.3
316.7
301.3
293.0
288.8
281.5
259.5
232.8
204.2
192.5
184.7
178.5
175.1
168.8
157.9
148.4
137.8
126.6
115.3
105.2
95.2
83.3
72.9
60.0
53.2
73.8
29.3
7.2
0.0

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