

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: P945046

Luminaire Tested: **GALN-SB1A-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945046
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-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4266 lumens
Efficiency: N/A
Efficacy: 138.1 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

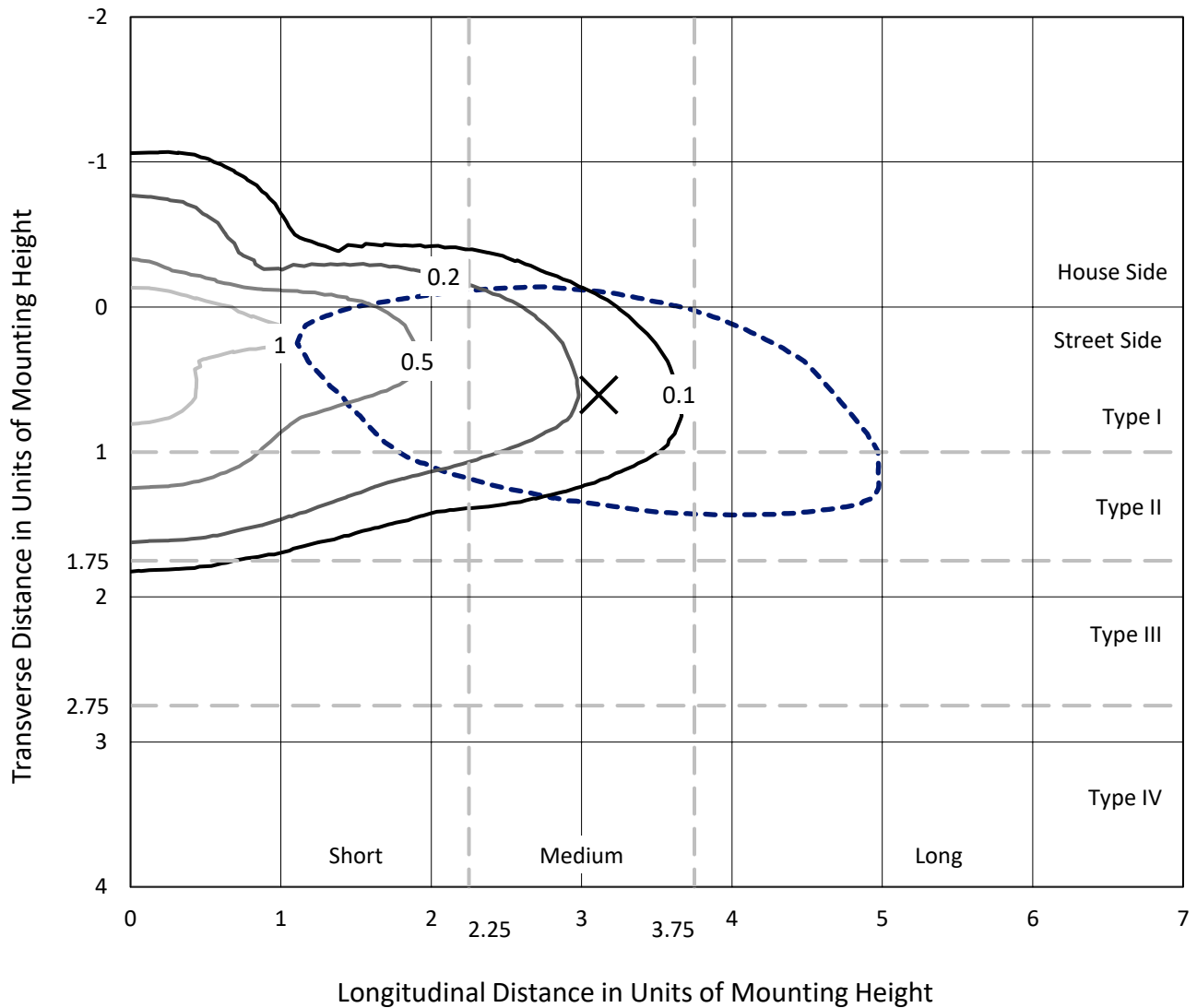
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

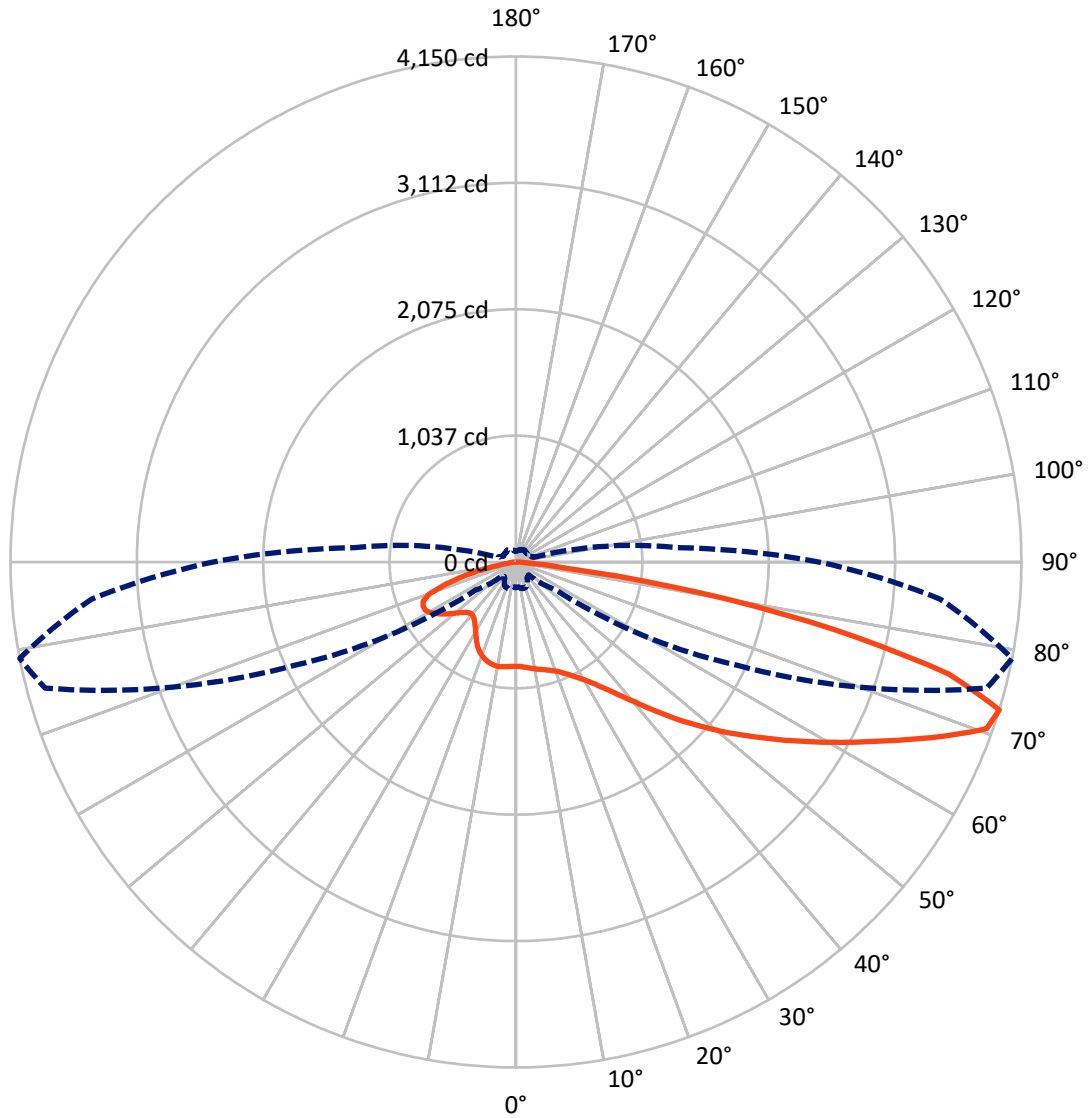
✕ Max cd
 - - - 1/2 Max cd



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

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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	938.7	0.0	938.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3327.2	0.0	3327.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	4266.0	0.0	4266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.8
10°-20°	203.2	4.8
20°-30°	327.9	7.7
30°-40°	492.2	11.5
40°-50°	698.2	16.4
50°-60°	881.7	20.7
60°-70°	895.5	21.0
70°-80°	610.3	14.3
80°-90°	79.2	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°	4266.0	100.0
0°-180°	4266.0	100.0

Coefficient of Utilization



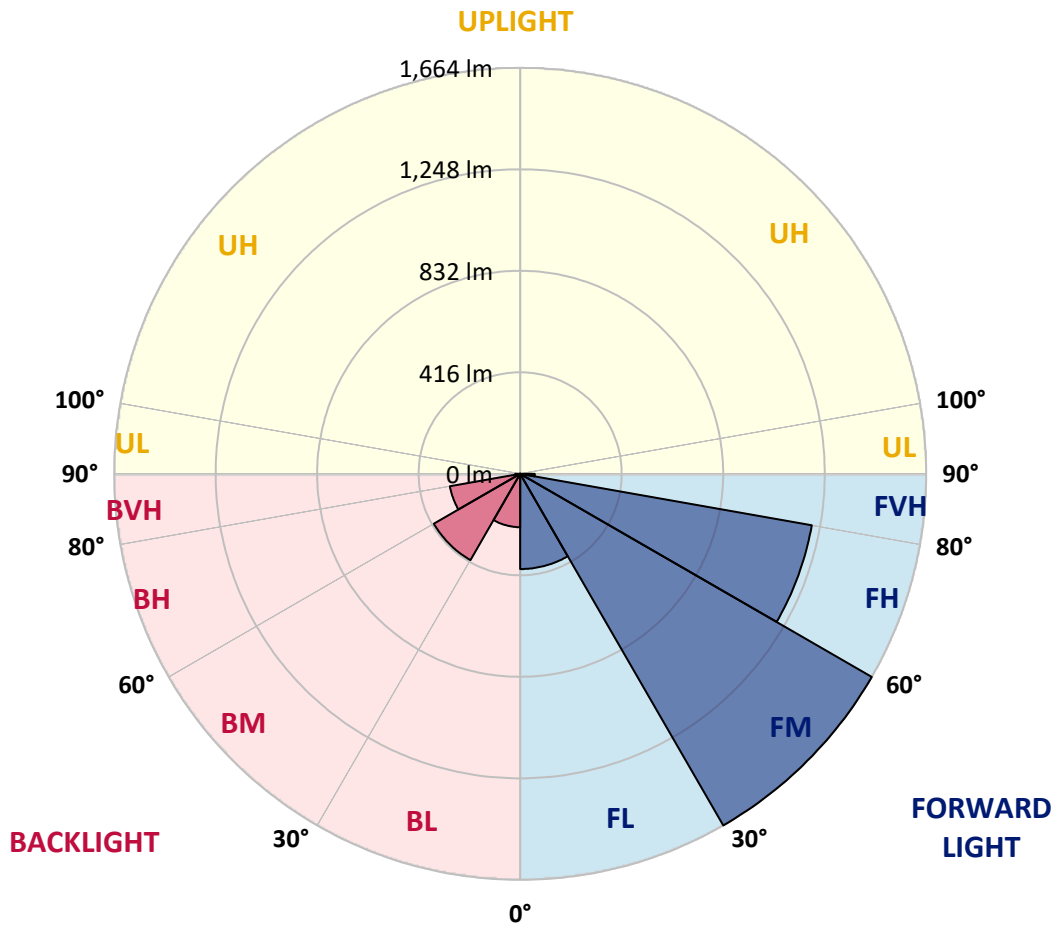
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.2	9.1			
FM (30°-60°)	1663.8	39.0			
FH (60°-80°)	1213.5	28.4			G1/1800
FVH (80°-90°)	59.6	1.4			G1/100
BL (0°-30°)	218.7	5.1	B1/500		
BM (30°-60°)	408.3	9.6	B1/1000		
BH (60°-80°)	292.3	6.9	B1/500		G1/500
BVH (80°-90°)	19.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
2.5°	856.8	852.7	855.2	854.3	855.5	856.8	857.3	857.9	860.2	860.0
5°	855.0	850.9	854.3	853.2	856.1	859.3	862.0	864.5	868.1	869.7
7.5°	851.2	848.5	851.8	855.2	860.6	865.4	869.2	874.9	880.1	881.0
10°	828.8	826.8	834.7	843.5	858.4	871.3	879.6	886.1	891.8	892.7
12.5°	805.6	803.1	811.9	823.9	848.0	871.3	888.9	897.4	902.4	905.3
15°	801.8	799.7	804.7	815.1	835.1	865.2	895.2	911.0	915.3	918.6
17.5°	820.3	816.4	818.4	822.1	833.8	859.5	900.1	926.3	932.9	936.5
20°	863.1	857.7	854.6	847.3	845.3	860.4	899.7	944.8	953.4	957.9
22.5°	920.2	916.6	909.8	891.6	871.7	871.5	908.3	968.5	984.5	988.8
25°	989.3	983.9	975.3	950.5	912.3	893.4	922.7	998.7	1025.6	1026.7
27.5°	1068.7	1060.6	1048.8	1016.1	964.7	927.7	944.8	1033.5	1072.8	1072.3
30°	1152.4	1144.3	1131.9	1092.2	1027.4	973.9	975.5	1071.0	1128.7	1126.2
32.5°	1213.6	1207.5	1205.0	1174.3	1099.6	1028.5	1010.7	1112.5	1197.8	1195.5
35°	1260.5	1252.6	1255.5	1240.0	1178.4	1089.7	1053.8	1161.9	1281.7	1281.5
37.5°	1307.0	1300.0	1302.5	1292.1	1251.3	1167.3	1106.4	1222.4	1385.7	1390.7
40°	1349.4	1342.0	1351.9	1342.2	1307.9	1249.9	1166.2	1290.7	1506.2	1515.7
42.5°	1374.9	1369.0	1385.5	1385.7	1357.1	1319.6	1231.8	1366.1	1645.7	1666.9
45°	1383.7	1381.7	1406.5	1411.7	1400.6	1360.0	1291.0	1448.3	1796.0	1833.9
47.5°	1374.2	1370.4	1404.7	1423.9	1432.7	1379.0	1339.9	1537.2	1949.4	2004.9
50°	1326.4	1319.0	1369.9	1410.3	1441.7	1391.4	1389.4	1639.8	2123.9	2184.6
52.5°	1240.4	1234.8	1292.8	1363.0	1421.8	1397.5	1444.9	1752.0	2289.5	2368.0
55°	1130.5	1123.1	1186.9	1278.6	1372.4	1395.4	1500.4	1877.4	2484.9	2564.6
57.5°	956.3	941.4	1022.2	1130.5	1291.9	1393.0	1558.1	2002.2	2683.5	2778.9
60°	702.2	680.1	779.2	907.6	1134.4	1368.8	1629.7	2142.1	2921.8	3007.7
62.5°	408.9	396.0	460.8	580.6	855.0	1226.7	1669.8	2304.8	3156.0	3246.3
65°	317.5	313.9	319.5	328.8	475.9	918.4	1546.0	2463.5	3453.9	3517.1
67.5°	290.4	287.7	290.2	272.8	241.5	511.6	1223.0	2503.6	3772.9	3811.3
70°	258.1	255.0	263.1	248.2	190.0	232.6	790.2	2357.9	4026.8	4098.8
72.5°	210.3	206.7	225.7	218.9	160.0	149.4	396.9	2011.5	4000.2	4149.6
75°	161.6	159.5	182.1	187.7	130.4	117.6	190.5	1495.2	3520.2	3670.7
77.5°	125.5	123.9	135.4	155.9	105.2	91.2	117.1	948.4	2652.8	2679.2
80°	94.1	89.6	100.2	120.7	81.9	66.6	79.4	553.1	1676.8	1520.0
82.5°	58.9	56.6	65.4	80.6	57.8	45.8	51.7	305.5	672.0	395.8
85°	33.6	32.7	35.7	46.0	31.4	26.4	29.6	134.9	122.8	84.4
87.5°	13.5	13.1	16.2	20.5	11.5	9.7	10.4	32.5	27.1	25.0
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°
856.4	0°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
859.7	2.5°	858.8	858.8	855.7	850.7	845.1	841.5	835.6	834.0	827.9	826.1
867.4	5°	869.2	867.4	857.7	843.7	824.5	806.9	787.5	775.3	758.2	752.1
882.5	7.5°	882.3	877.3	860.6	830.0	789.8	750.3	709.2	678.1	648.3	637.7
894.9	10°	894.3	887.3	858.8	805.1	735.6	667.3	601.8	556.0	521.3	507.0
908.7	12.5°	906.2	893.4	846.9	763.8	658.7	565.9	496.2	460.6	439.1	422.0
920.0	15°	917.5	899.5	828.4	708.6	574.3	480.2	428.7	400.3	383.2	371.9
936.5	17.5°	930.6	904.6	800.6	638.4	494.0	420.8	378.9	361.7	358.3	357.0
959.0	20°	948.9	909.4	764.1	559.8	434.8	373.5	351.8	350.2	350.0	349.3
986.1	22.5°	968.5	915.0	715.8	488.5	384.5	343.9	340.1	336.9	334.9	334.6
1018.8	25°	991.8	916.8	655.3	430.1	341.6	329.9	325.4	320.7	319.3	319.3
1056.1	27.5°	1014.3	910.7	584.9	379.3	317.5	317.0	311.2	309.6	309.4	310.0
1098.5	30°	1036.9	899.2	514.9	332.4	303.5	303.5	301.5	302.6	303.5	305.8
1156.7	32.5°	1067.3	887.0	456.5	297.6	291.3	289.1	291.1	293.4	294.3	297.2
1233.2	35°	1112.0	878.5	410.0	278.7	278.7	275.7	276.9	276.4	274.4	273.0
1325.7	37.5°	1171.1	878.0	371.7	269.9	268.1	267.6	267.9	264.9	257.0	247.5
1437.6	40°	1242.2	890.2	342.1	263.8	262.4	265.1	263.8	255.9	234.2	217.8
1575.3	42.5°	1337.7	925.0	323.1	256.3	260.4	263.8	258.4	231.1	216.4	205.3
1732.1	45°	1450.1	981.4	313.4	248.4	256.6	260.6	234.5	222.5	210.8	197.4
1903.2	47.5°	1577.3	1052.5	311.2	241.0	248.0	250.5	224.3	218.9	205.6	191.1
2075.1	50°	1715.9	1136.6	317.3	232.2	235.6	227.0	220.9	216.0	202.2	188.0
2251.4	52.5°	1859.2	1229.4	329.5	220.2	223.2	213.7	219.6	215.3	200.2	181.0
2433.5	55°	2000.0	1322.8	341.2	206.2	210.5	201.7	215.7	212.6	190.9	169.2
2627.7	57.5°	2143.0	1415.8	352.7	193.8	198.4	190.2	209.6	205.3	180.5	158.4
2839.9	60°	2291.7	1506.0	358.1	181.9	185.0	179.6	200.4	192.9	168.8	147.4
3048.4	62.5°	2431.0	1581.2	349.3	169.9	171.9	169.7	188.2	178.3	157.1	134.9
3265.7	65°	2570.7	1625.8	322.2	158.2	158.6	157.5	171.0	162.5	143.3	124.1
3455.9	67.5°	2697.2	1650.9	279.1	145.5	144.4	144.0	155.0	145.3	130.0	113.3
3600.5	70°	2724.1	1587.3	213.2	130.7	130.7	129.5	137.4	127.5	115.3	101.8
3497.0	72.5°	2488.1	1335.2	151.4	113.7	115.5	113.3	119.8	111.5	100.4	91.4
3013.8	75°	2006.3	979.1	110.1	96.4	99.5	95.7	101.8	95.9	86.4	86.2
2076.9	77.5°	1378.5	605.4	79.9	79.4	81.7	76.7	83.7	80.6	72.0	68.1
904.0	80°	588.3	241.5	58.2	61.4	61.4	56.9	65.0	65.9	58.4	56.6
174.4	82.5°	117.1	68.6	40.8	42.2	39.7	38.4	46.0	51.0	70.4	78.3
52.6	85°	35.2	25.3	24.6	23.0	20.3	20.5	27.1	51.2	63.2	36.1
17.4	87.5°	9.7	6.3	6.5	5.2	4.3	5.6	9.3	38.8	21.2	9.0
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>
856.4
829.1
756.6
639.1
510.2
427.6
373.9
357.9
351.6
337.1
320.7
311.9
307.3
299.7
276.2
247.8
217.3
204.9
196.5
190.0
186.4
179.6
168.1
158.0
146.7
134.7
122.8
111.9
101.3
88.7
77.6
63.9
56.6
78.5
31.1
7.7
0.0

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