

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: P946528

Luminaire Tested: **GALN-SB2A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5606 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

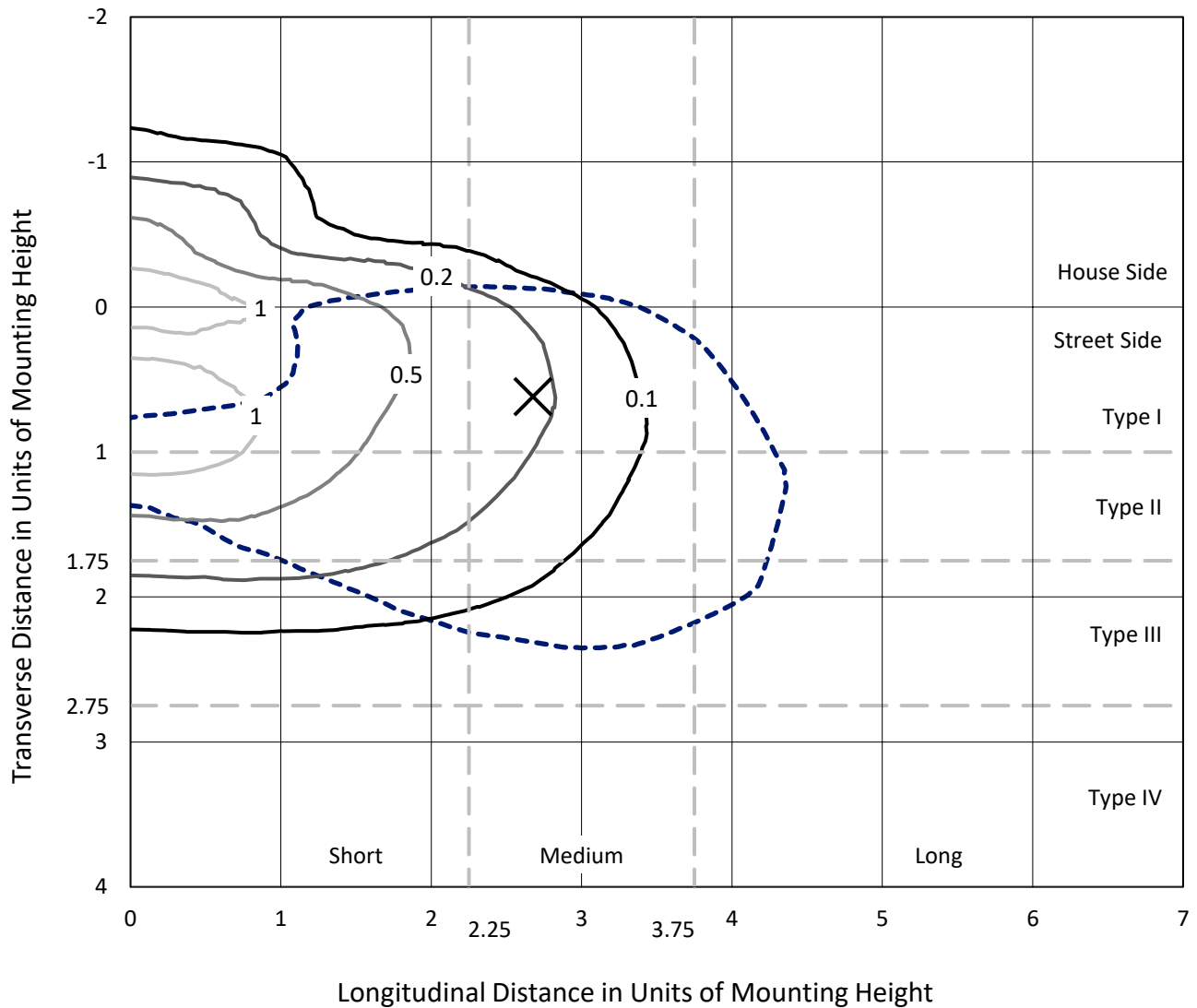
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

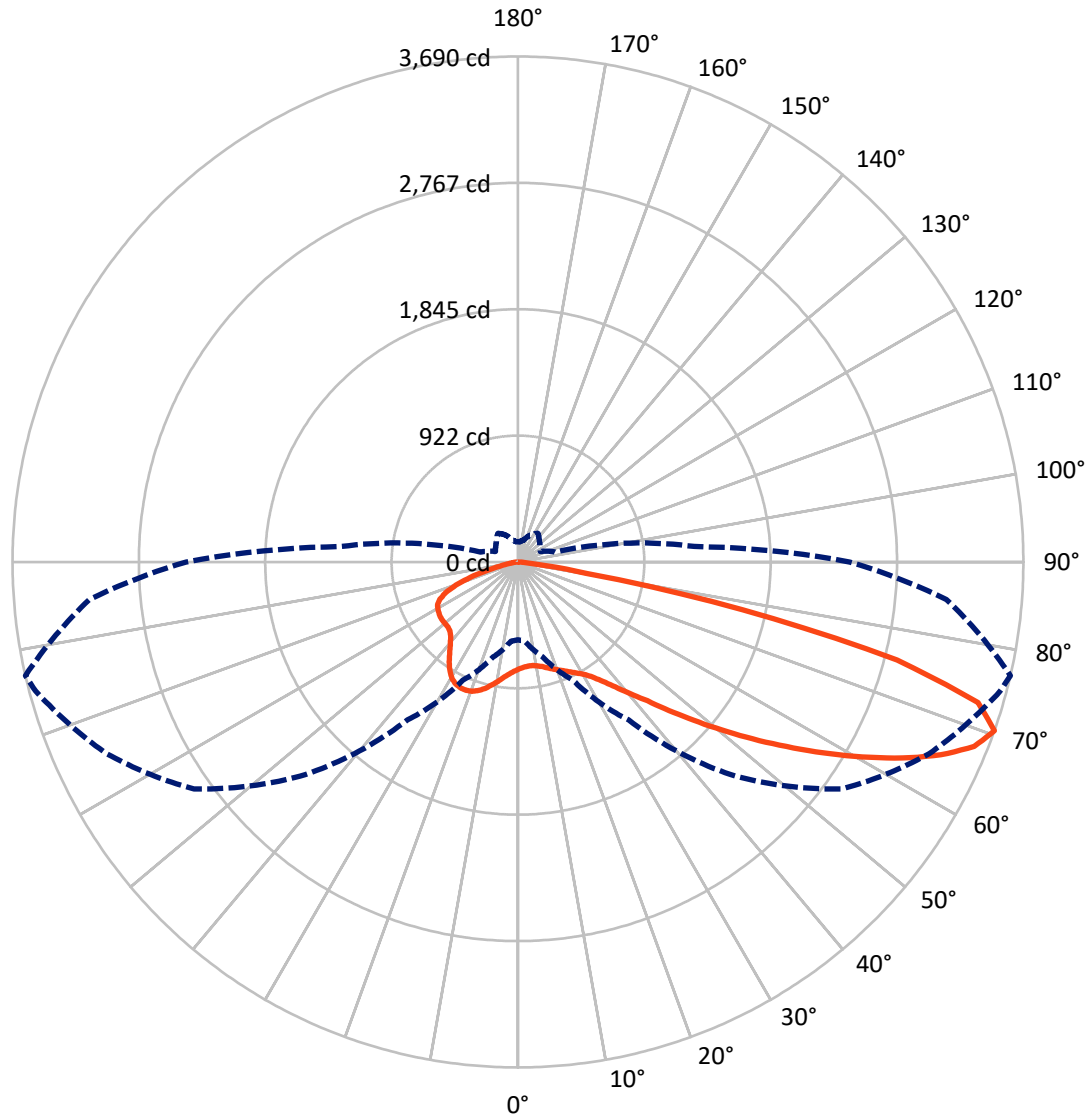
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1227.6	0.0	1227.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4378.4	0.0	4378.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	5606.0	0.0	5606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	215.3	3.8
20°-30°	368.1	6.6
30°-40°	592.0	10.6
40°-50°	924.3	16.5
50°-60°	1234.6	22.0
60°-70°	1315.9	23.5
70°-80°	810.1	14.5
80°-90°	71.0	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°	5606.0	100.0
0°-180°	5606.0	100.0

Coefficient of Utilization



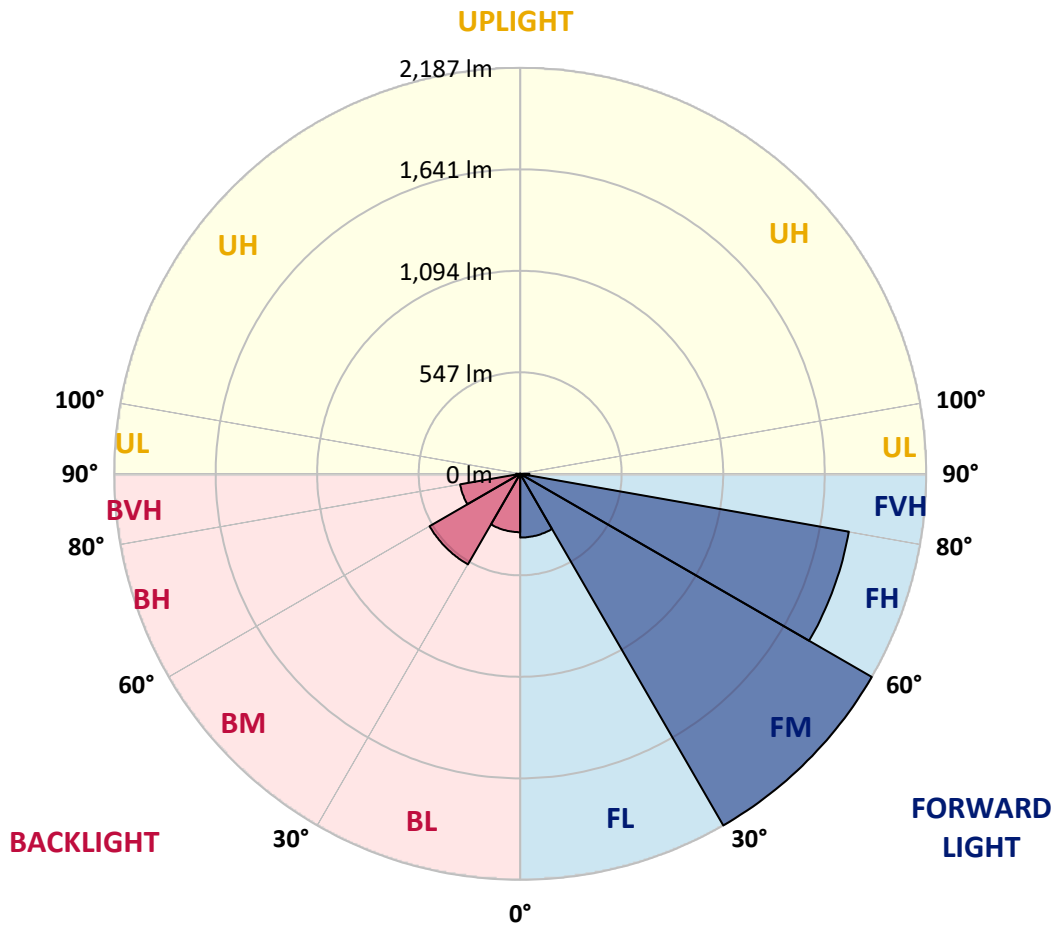
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.5	6.1			
FM (30°-60°)	2187.3	39.0			
FH (60°-80°)	1797.9	32.1			G1/1800
FVH (80°-90°)	49.6	0.9			G1/100
BL (0°-30°)	314.6	5.6	B1/500		
BM (30°-60°)	563.6	10.1	B1/1000		
BH (60°-80°)	328.1	5.9	B1/500		G1/500
BVH (80°-90°)	21.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	720.9	720.6	724.4	725.5	732.4	737.3	746.5	756.2	768.9	770.3
5°	679.3	679.3	683.6	688.2	697.1	706.9	720.9	737.9	759.7	763.1
7.5°	644.0	646.3	650.0	658.9	669.3	683.3	704.9	729.0	757.7	763.1
10°	615.6	618.1	622.7	629.9	645.4	664.9	693.1	724.1	762.6	771.2
12.5°	606.7	609.2	611.8	617.3	631.6	654.6	688.2	726.4	774.3	782.9
15°	627.3	630.5	628.5	627.0	634.5	655.5	690.5	734.7	789.0	801.3
17.5°	675.0	676.1	671.6	658.1	656.9	668.1	701.4	746.2	807.4	820.8
20°	751.9	749.9	740.5	713.8	698.5	696.2	720.1	763.4	826.3	840.7
22.5°	856.4	854.2	835.2	793.0	759.1	736.7	747.1	785.8	847.5	863.6
25°	986.8	983.6	955.8	898.4	845.8	790.4	783.8	815.4	873.7	888.6
27.5°	1139.0	1136.4	1106.2	1030.4	954.6	863.9	829.5	850.1	901.0	917.9
30°	1302.6	1310.1	1256.7	1175.1	1079.2	959.8	890.9	892.9	936.3	951.5
32.5°	1495.0	1507.9	1443.6	1340.2	1209.3	1064.0	968.4	952.6	987.7	1000.3
35°	1685.6	1700.3	1646.9	1532.6	1381.9	1186.9	1049.4	1021.3	1056.0	1069.8
37.5°	1850.4	1869.9	1842.4	1743.0	1566.5	1335.1	1155.0	1101.9	1140.1	1157.3
40°	1980.5	2010.3	2008.3	1946.3	1784.1	1514.8	1289.1	1201.6	1244.6	1263.3
42.5°	2086.1	2112.0	2134.4	2131.2	2011.2	1718.9	1446.7	1331.0	1363.8	1385.3
45°	2159.1	2186.6	2234.9	2286.8	2229.7	1937.4	1627.3	1484.6	1514.5	1546.9
47.5°	2224.2	2255.5	2318.1	2400.5	2415.2	2156.8	1825.2	1663.5	1690.8	1724.4
50°	2230.0	2257.0	2354.0	2470.9	2547.0	2367.5	2037.6	1864.2	1889.8	1925.6
52.5°	2091.3	2133.8	2303.2	2468.9	2607.5	2543.8	2248.6	2072.9	2101.6	2144.7
55°	1623.3	1685.6	2154.2	2391.9	2586.0	2657.8	2449.3	2294.9	2331.6	2376.7
57.5°	1398.2	1425.5	1710.0	2251.8	2487.8	2687.4	2618.7	2519.1	2578.2	2627.6
60°	1256.7	1279.4	1447.6	2033.9	2358.6	2640.6	2749.7	2728.1	2830.3	2889.2
62.5°	1105.1	1126.6	1279.7	1698.3	2193.2	2562.7	2832.3	2921.1	3088.7	3153.0
65°	954.6	973.0	1119.7	1426.9	1983.1	2484.9	2875.1	3087.9	3327.9	3394.5
67.5°	787.0	802.2	940.9	1203.9	1727.5	2378.4	2896.4	3219.1	3536.0	3593.2
70°	567.9	579.7	722.9	952.1	1406.8	2195.2	2887.8	3312.1	3644.0	3689.7
72.5°	268.4	279.1	447.3	618.1	993.7	1838.7	2713.5	3238.3	3534.3	3511.6
75°	143.3	152.5	257.0	339.1	524.8	1260.4	2220.5	2789.6	2967.9	2857.6
77.5°	97.0	104.2	159.1	203.6	239.7	598.3	1427.2	1931.4	1858.2	1676.1
80°	76.9	84.4	130.3	137.8	116.0	216.2	589.7	894.1	642.3	513.6
82.5°	59.1	67.5	109.7	99.9	63.2	88.7	171.7	282.8	164.5	125.2
85°	36.2	45.1	86.1	63.7	35.6	40.5	58.3	78.7	50.2	41.9
87.5°	18.4	25.8	43.6	23.3	16.1	9.5	15.5	15.5	13.2	11.5
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°
782.1	0°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
778.1	2.5°	785.0	790.7	800.5	809.7	816.8	823.7	830.6	834.3	835.5	840.1
782.4	5°	794.1	804.8	823.7	841.5	852.7	859.6	864.5	867.4	867.9	869.4
794.1	7.5°	811.1	828.0	854.4	872.2	880.6	880.0	878.0	870.8	867.9	865.4
811.4	10°	834.9	857.3	889.8	902.1	896.9	883.2	865.4	844.4	834.6	825.2
834.9	12.5°	864.5	892.9	924.8	924.2	898.7	863.3	822.0	789.8	769.5	754.8
863.9	15°	900.4	933.1	957.5	938.0	882.0	818.6	758.0	716.1	697.7	681.6
893.2	17.5°	937.4	972.4	983.6	933.7	840.1	752.2	683.6	650.6	632.5	623.9
924.8	20°	973.6	1008.3	999.1	909.0	776.3	677.0	615.9	597.8	594.0	596.0
955.5	22.5°	1011.8	1042.8	1002.3	861.3	695.1	600.1	566.5	567.0	575.4	581.4
987.7	25°	1050.8	1071.8	994.0	792.4	607.8	543.5	535.2	544.4	560.7	572.5
1023.8	27.5°	1088.4	1097.6	975.9	707.2	532.9	503.0	504.5	523.4	548.1	564.5
1067.8	30°	1130.9	1120.6	941.1	611.3	480.9	468.3	480.3	502.4	527.1	541.8
1123.2	32.5°	1178.9	1140.4	886.0	522.5	444.2	440.4	460.2	474.6	485.5	489.8
1196.7	35°	1238.6	1168.3	815.4	460.2	411.1	420.0	439.0	431.8	427.5	425.2
1295.4	37.5°	1316.1	1205.9	732.7	419.8	384.4	405.4	413.2	390.8	373.8	365.5
1415.2	40°	1409.4	1261.0	653.2	388.5	367.5	392.8	379.3	352.3	330.8	319.0
1549.8	42.5°	1513.1	1318.7	586.3	364.9	358.0	382.4	354.3	322.1	287.4	283.7
1710.3	45°	1621.9	1378.1	540.6	346.8	353.4	373.5	339.9	288.0	263.3	278.5
1871.4	47.5°	1730.7	1432.7	513.1	333.3	351.1	363.5	327.3	269.0	251.5	273.6
2043.9	50°	1851.9	1481.5	500.7	323.6	348.6	359.5	308.4	264.1	239.2	253.8
2222.5	52.5°	1972.2	1519.4	491.5	313.8	344.8	356.3	299.2	258.4	224.2	225.1
2402.3	55°	2092.2	1544.1	481.5	300.9	336.5	349.4	298.3	252.1	213.0	209.0
2592.3	57.5°	2220.2	1558.1	469.1	286.5	322.1	331.9	297.4	247.2	209.6	203.0
2786.7	60°	2350.6	1578.8	453.1	269.0	302.9	310.9	295.4	245.5	207.6	196.4
2969.9	62.5°	2467.4	1586.0	433.8	252.4	278.2	290.3	291.1	244.0	202.1	182.9
3122.0	65°	2544.1	1555.0	400.2	233.4	251.5	269.0	282.8	239.2	192.4	173.1
3197.3	67.5°	2540.9	1466.6	347.7	209.0	225.7	245.5	270.7	230.8	180.6	161.1
3140.4	70°	2422.6	1292.0	281.1	180.6	197.2	220.2	255.2	218.5	166.5	147.9
2792.4	72.5°	2077.8	1011.2	204.1	147.3	164.2	194.1	235.1	203.6	152.2	136.1
2063.7	75°	1484.4	640.0	138.4	113.1	127.8	164.5	210.2	186.0	139.0	136.7
1033.6	77.5°	758.3	305.8	91.6	82.7	89.0	129.8	176.6	166.2	141.0	112.8
294.0	80°	246.6	112.8	57.7	56.3	59.1	86.4	136.7	136.4	106.8	76.7
71.2	82.5°	78.7	48.5	37.6	36.2	34.7	54.3	95.3	108.0	72.1	48.5
25.6	85°	31.3	29.0	22.1	20.4	14.6	25.6	50.0	71.8	53.7	35.0
6.6	87.5°	11.5	11.5	6.0	4.3	3.2	8.6	13.5	21.5	30.7	18.1
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>
782.1
842.7
871.7
865.9
822.3
751.4
679.9
626.5
595.2
582.8
575.7
568.5
545.2
492.1
427.5
367.5
319.8
287.4
286.5
284.0
264.7
231.1
211.9
203.8
197.2
182.9
173.1
161.9
149.6
135.2
128.9
100.5
67.8
48.2
35.9
17.8
0.0

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