

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: P938954

Luminaire Tested: **GALN-SB1B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577 lumens
Efficiency: N/A
Efficacy: 89.9 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

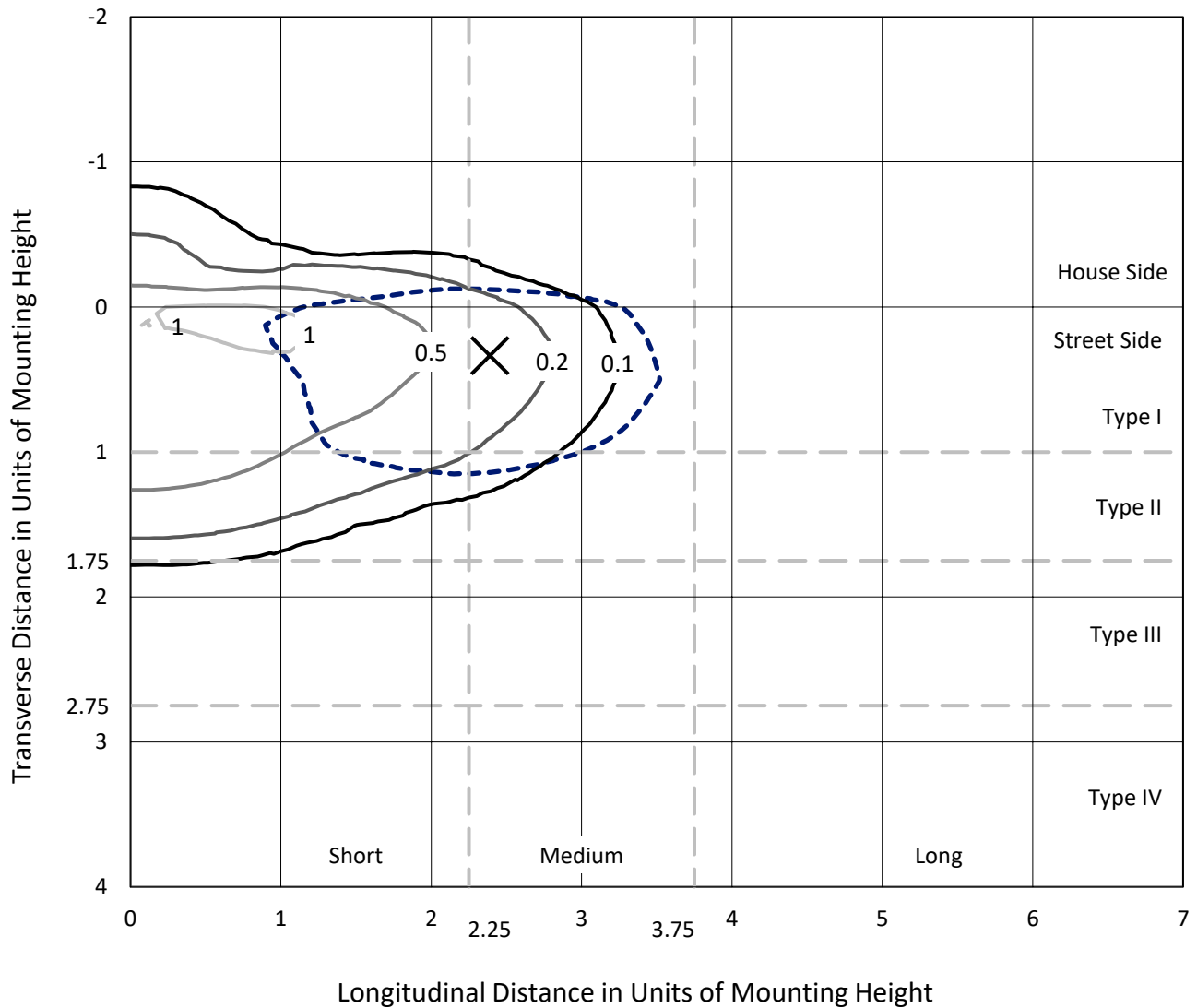
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

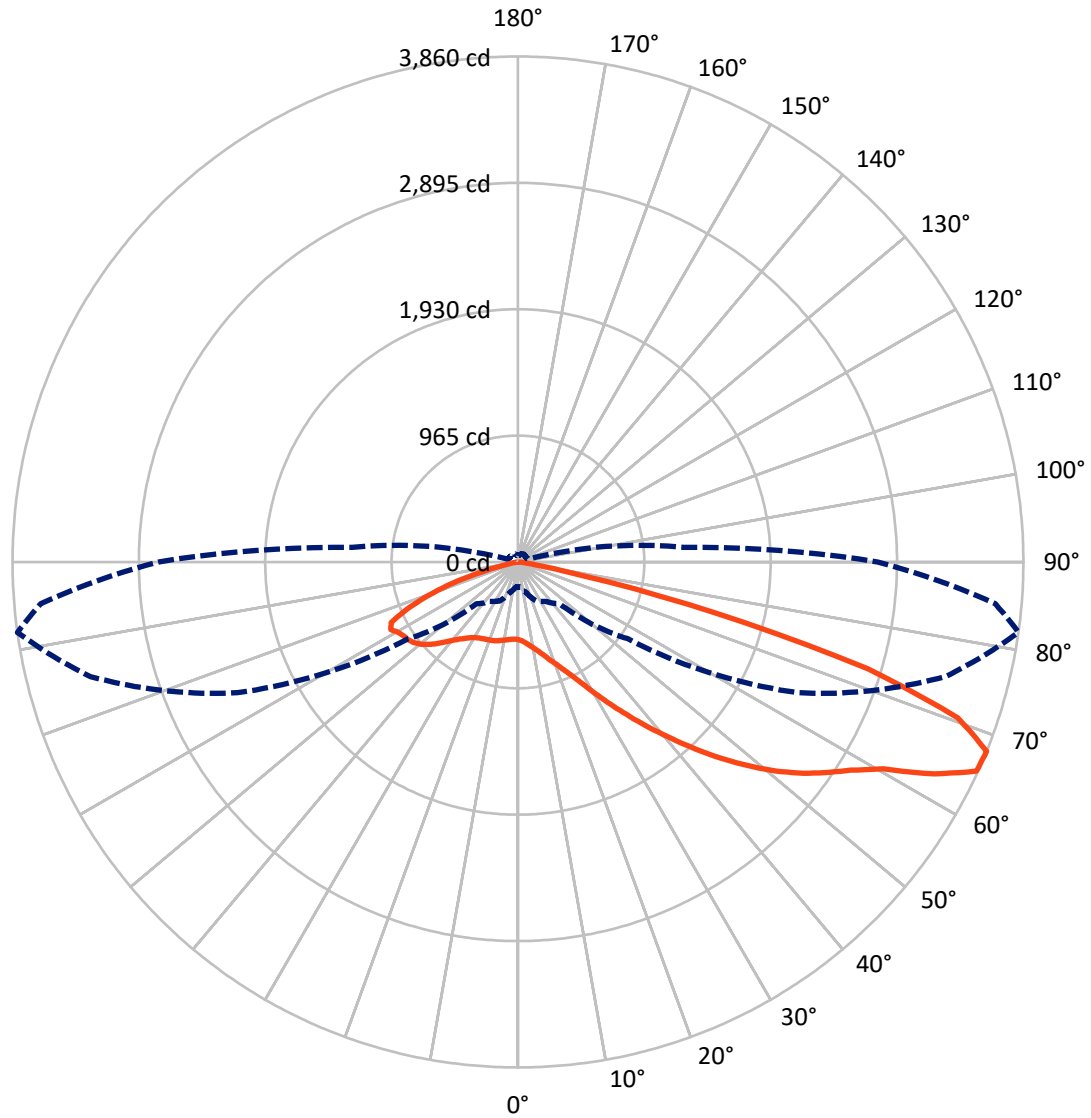
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.9	0.0	647.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2929.1	0.0	2929.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	3577.0	0.0	3577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.5
10°-20°	137.2	3.8
20°-30°	219.7	6.1
30°-40°	388.6	10.9
40°-50°	680.8	19.0
50°-60°	908.0	25.4
60°-70°	845.3	23.6
70°-80°	324.4	9.1
80°-90°	20.1	0.6
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°	3577.0	100.0
0°-180°	3577.0	100.0

Coefficient of Utilization



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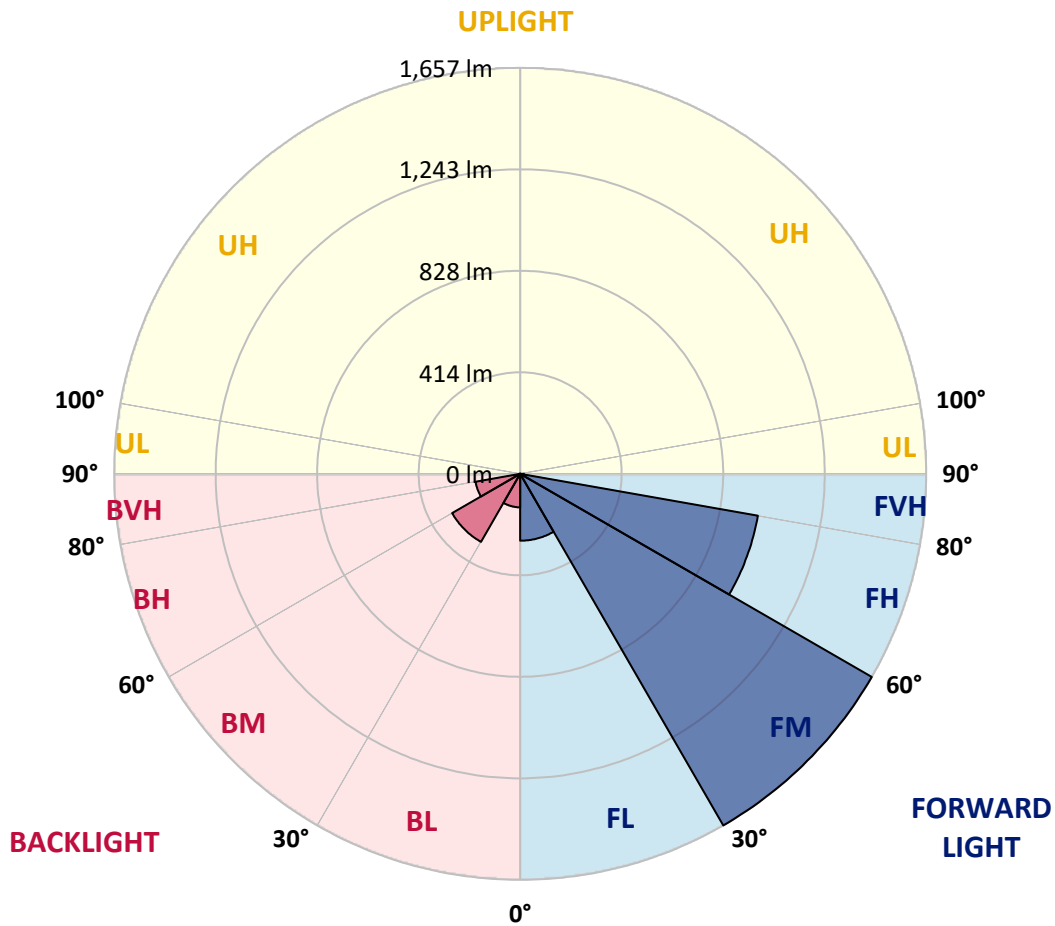
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.9	7.6			
FM (30°-60°)	1656.7	46.3			
FH (60°-80°)	984.8	27.5			G1/1800
FVH (80°-90°)	14.6	0.4			G1/100
BL (0°-30°)	136.8	3.8	B1/500		
BM (30°-60°)	320.7	9.0	B1/1000		
BH (60°-80°)	184.9	5.2	B1/500		G1/500
BVH (80°-90°)	5.5	0.2			G0/10
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°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6
2.5°	626.3	629.9	627.9	626.8	625.0	622.5	620.4	614.0	607.3	602.9
5°	638.9	642.5	642.3	643.3	644.6	645.4	644.9	637.7	628.1	620.7
7.5°	628.1	632.2	635.6	640.7	649.8	659.3	663.9	662.4	652.6	642.3
10°	597.5	601.9	609.8	621.9	641.0	661.6	678.9	686.8	680.7	669.3
12.5°	541.3	545.7	561.4	587.7	619.6	655.4	688.4	709.8	711.3	700.0
15°	478.2	482.6	499.4	532.3	581.0	638.4	693.5	734.0	747.6	737.8
17.5°	439.1	443.0	455.6	482.1	532.8	604.4	691.7	759.7	790.9	783.2
20°	427.3	430.6	436.5	455.1	497.3	569.2	679.9	783.9	837.5	833.1
22.5°	439.9	443.0	444.8	453.0	479.5	546.0	665.0	808.7	891.6	892.1
25°	469.0	472.1	470.0	475.2	486.7	538.8	659.3	837.8	959.6	965.2
27.5°	516.9	517.1	512.2	512.0	513.8	549.6	665.2	868.9	1045.3	1055.9
30°	612.9	609.1	590.3	569.9	560.7	582.0	681.7	905.8	1146.5	1165.3
32.5°	761.0	755.3	720.8	672.2	623.2	634.3	711.3	947.7	1256.8	1290.8
35°	921.7	920.2	884.1	811.8	726.2	708.7	759.5	1002.8	1377.0	1431.1
37.5°	1071.1	1070.3	1049.7	964.5	860.4	812.5	836.7	1075.0	1505.8	1584.1
40°	1207.6	1209.9	1189.3	1113.1	1008.2	945.7	941.8	1164.1	1649.0	1750.7
42.5°	1325.5	1328.1	1307.2	1250.8	1154.3	1093.0	1070.8	1273.3	1788.8	1929.7
45°	1405.6	1421.6	1418.5	1373.4	1304.2	1240.5	1225.9	1410.3	1948.3	2119.5
47.5°	1428.3	1443.0	1466.1	1472.3	1430.1	1367.5	1385.0	1575.3	2109.5	2309.6
50°	1372.4	1386.1	1434.2	1498.3	1527.7	1508.4	1539.8	1752.3	2274.5	2499.1
52.5°	1262.2	1276.1	1336.9	1438.3	1558.1	1618.9	1695.1	1926.6	2434.5	2678.6
55°	1102.8	1117.4	1195.5	1310.3	1500.1	1664.4	1824.6	2100.7	2581.0	2840.1
57.5°	885.9	896.7	977.9	1138.6	1354.4	1619.1	1920.2	2290.8	2719.1	2998.7
60°	577.4	586.9	681.2	860.4	1112.8	1467.7	1939.2	2502.7	2902.4	3205.0
62.5°	384.0	390.4	446.3	577.9	783.7	1176.9	1827.7	2671.9	3171.3	3564.0
65°	263.5	269.9	325.8	417.5	506.3	778.5	1507.1	2649.5	3414.9	3849.1
67.5°	188.0	193.4	240.8	327.3	366.5	452.2	1021.6	2363.1	3379.9	3859.9
70°	134.7	137.8	176.9	255.0	291.3	271.7	568.1	1807.4	2959.3	3564.3
72.5°	94.3	95.3	122.8	194.2	234.6	198.3	270.4	1205.0	2238.2	2797.6
75°	63.9	65.2	82.7	142.4	188.3	151.4	143.2	646.2	1313.9	1548.6
77.5°	39.1	39.7	53.3	97.3	140.9	115.4	92.2	273.8	508.4	499.1
80°	22.1	22.1	34.0	60.5	96.1	74.4	64.6	116.4	161.0	141.4
82.5°	12.4	12.6	24.7	37.6	63.6	44.0	35.5	53.8	69.5	61.6
85°	5.2	5.7	15.2	17.8	30.4	21.9	14.4	22.7	25.8	22.9
87.5°	0.5	0.8	4.6	3.3	3.6	4.4	2.1	4.4	3.6	3.6
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°
592.6	0°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6
601.3	2.5°	596.5	592.6	582.8	571.5	556.5	549.3	539.5	532.8	527.2	527.7
616.3	5°	608.0	598.3	576.4	549.1	515.1	490.9	465.1	447.3	432.9	429.8
636.9	7.5°	624.0	608.6	570.2	521.0	463.6	420.0	381.2	356.2	338.4	332.7
661.9	10°	644.6	622.2	562.2	485.7	403.0	347.7	306.0	286.4	274.3	270.2
691.2	12.5°	668.6	637.9	551.6	442.7	340.7	287.4	260.9	251.1	247.2	245.9
727.3	15°	698.7	657.5	535.7	391.7	287.9	250.6	239.2	238.0	238.5	238.0
770.5	17.5°	734.5	678.9	509.7	339.2	252.4	231.8	227.7	228.7	230.0	229.7
819.0	20°	773.6	700.0	476.4	292.6	228.2	218.4	216.1	217.1	218.1	217.6
874.8	22.5°	818.2	722.6	439.6	256.2	212.0	206.0	203.5	203.7	203.7	202.7
945.7	25°	871.5	747.6	401.0	230.5	199.6	195.0	191.9	190.8	189.3	186.2
1031.7	27.5°	935.1	774.1	363.9	212.5	189.8	185.4	181.8	179.2	175.4	170.2
1135.0	30°	1006.7	806.3	332.5	201.1	182.1	177.7	173.6	169.7	164.0	157.6
1253.7	32.5°	1090.9	840.9	309.6	193.7	175.1	170.5	165.6	161.0	154.8	148.3
1387.1	35°	1191.4	882.6	296.2	188.5	169.7	163.5	158.1	153.0	148.3	142.7
1532.1	37.5°	1300.3	926.9	292.0	185.9	166.1	156.6	150.4	146.8	146.3	142.9
1688.9	40°	1419.5	979.4	295.1	184.4	162.2	149.9	143.2	142.4	143.7	137.8
1856.6	42.5°	1545.7	1041.7	300.3	182.6	156.8	143.2	136.8	136.8	135.7	127.5
2033.8	45°	1682.2	1113.6	305.4	178.2	150.4	136.5	131.6	129.8	125.4	117.4
2212.0	47.5°	1819.7	1186.7	309.3	170.2	142.7	130.8	126.4	122.3	115.9	108.7
2386.8	50°	1950.3	1252.4	305.2	158.4	133.9	125.4	120.8	115.1	108.2	103.3
2552.4	52.5°	2067.0	1309.3	287.7	144.5	124.6	119.8	115.6	109.7	104.0	98.9
2701.8	55°	2168.4	1355.4	256.8	131.3	116.4	114.9	110.7	103.3	95.5	91.2
2849.9	57.5°	2265.8	1390.4	218.1	120.5	108.9	109.5	103.3	96.6	89.4	84.7
3049.5	60°	2395.3	1437.3	179.0	110.5	101.0	102.5	95.8	90.9	81.9	76.0
3391.7	62.5°	2602.4	1510.2	142.2	98.1	91.7	92.2	89.4	83.4	72.6	65.7
3645.4	65°	2766.7	1483.4	112.0	84.7	81.1	81.9	81.9	75.5	63.9	55.9
3659.1	67.5°	2748.2	1270.2	89.4	71.6	71.1	71.6	73.4	68.0	56.7	50.2
3380.4	70°	2531.6	1010.3	71.6	59.5	61.8	60.5	65.7	62.1	51.0	44.6
2620.7	72.5°	2065.7	727.8	54.6	49.2	47.4	49.4	59.2	55.9	42.5	35.3
1388.1	75°	1207.1	388.4	40.7	38.9	34.3	41.2	52.5	47.6	32.4	26.0
425.4	77.5°	393.0	135.5	29.9	28.6	25.5	33.2	44.8	40.2	26.5	20.6
124.6	80°	105.3	40.9	20.3	18.8	16.5	24.7	35.5	31.9	19.1	13.4
53.6	82.5°	42.2	17.3	11.8	10.6	9.0	17.0	28.1	25.8	14.2	8.5
16.7	85°	13.6	5.7	4.4	3.3	4.1	10.6	16.7	17.5	10.0	4.4
2.6	87.5°	1.8	0.8	0.8	1.0	0.8	1.8	5.2	4.9	2.8	0.5
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>
592.6
522.5
422.9
327.1
267.1
245.2
237.7
229.2
217.4
202.2
185.7
169.7
157.1
148.6
142.2
142.7
138.0
127.5
117.2
108.4
102.5
98.4
90.7
84.2
75.2
65.2
55.1
49.2
43.8
34.5
25.2
19.8
13.1
8.5
3.3
0.0
0.0

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