

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: P939201

Luminaire Tested: **GALN-SB1C-940-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

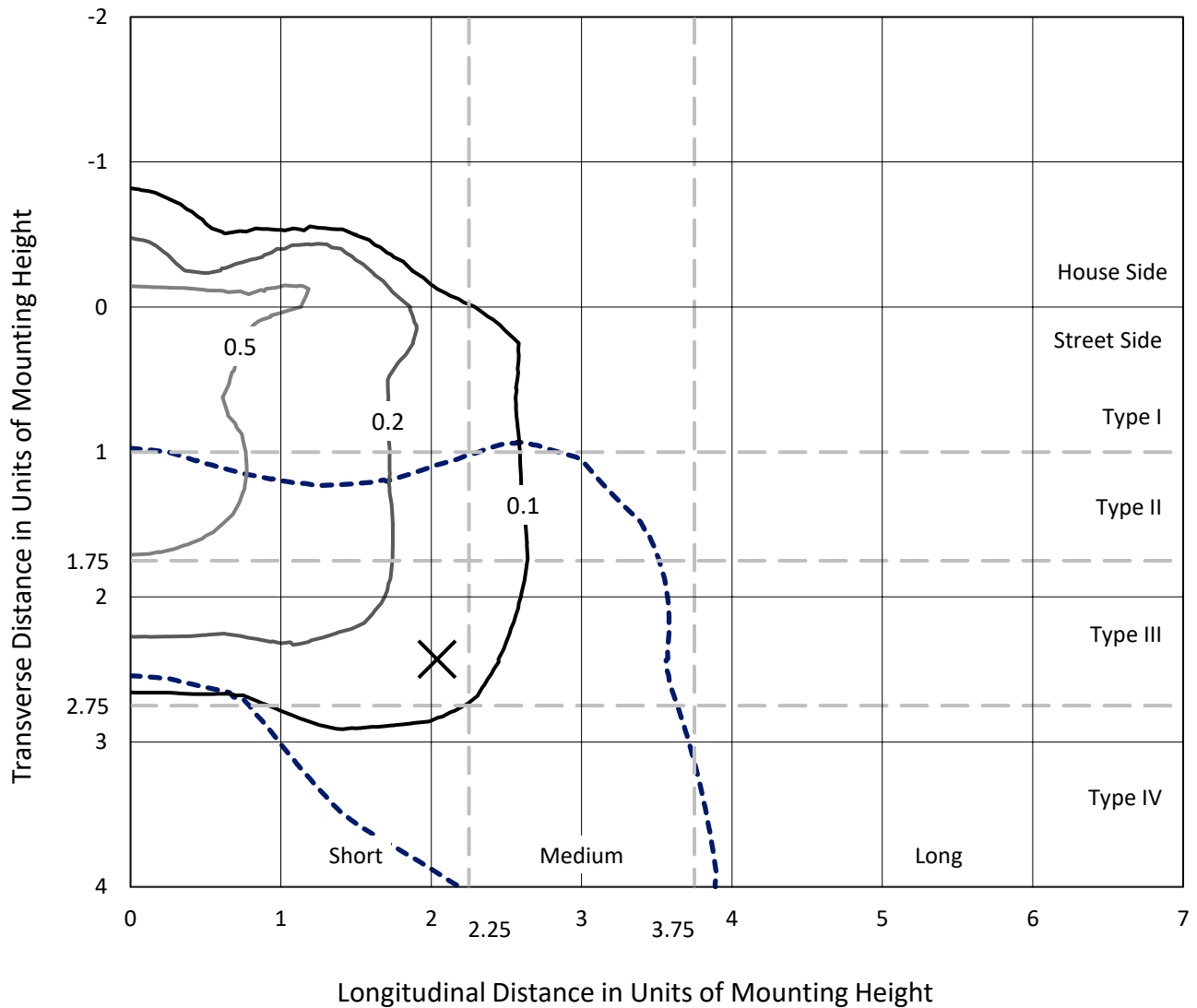
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

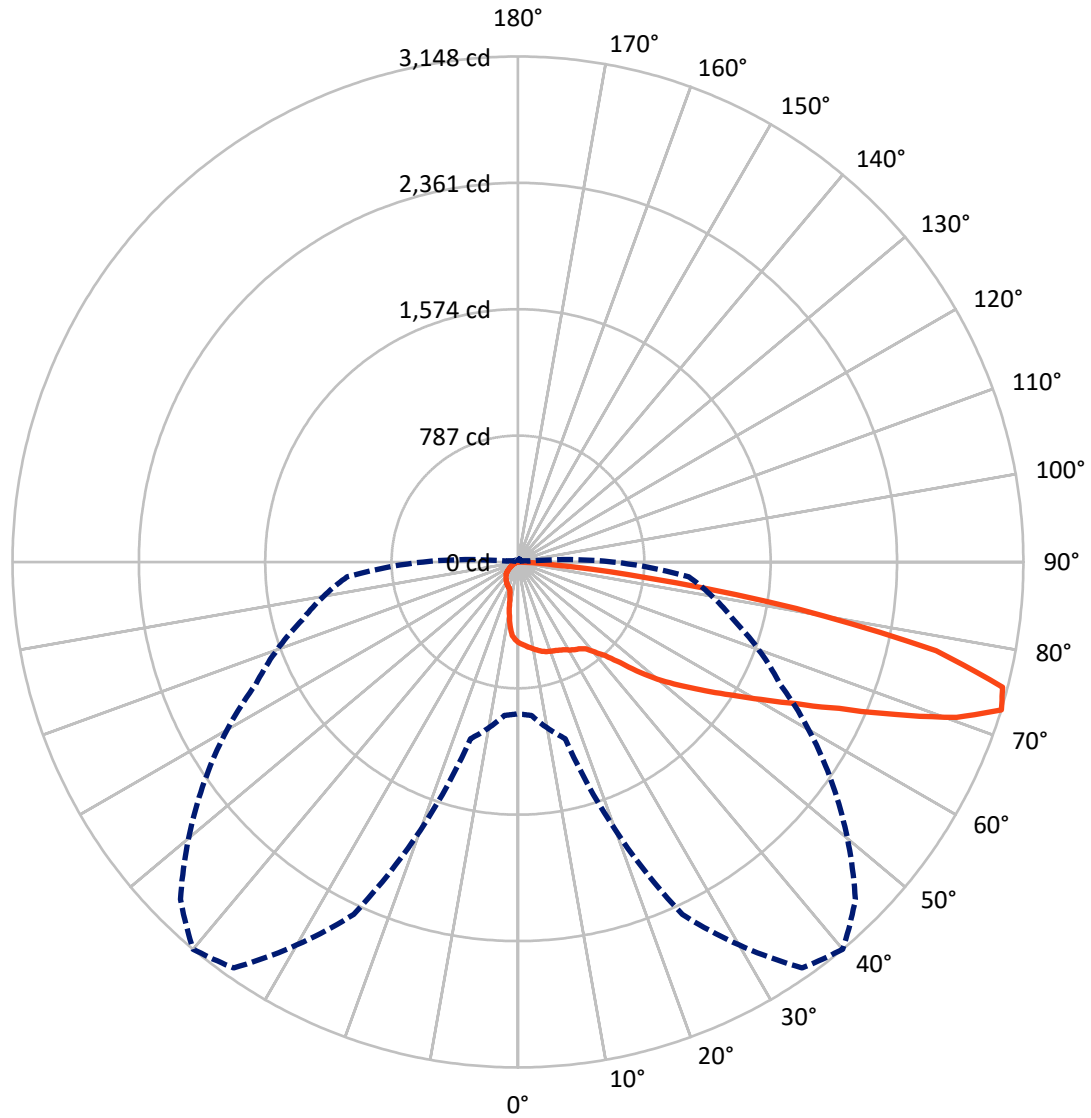
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.3	0.0	489.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3299.7	0.0	3299.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	3789.0	0.0	3789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.2
10°-20°	124.4	3.3
20°-30°	201.3	5.3
30°-40°	297.2	7.8
40°-50°	500.3	13.2
50°-60°	776.8	20.5
60°-70°	972.0	25.7
70°-80°	795.7	21.0
80°-90°	75.5	2.0
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°	3789.0	100.0
0°-180°	3789.0	100.0

Coefficient of Utilization



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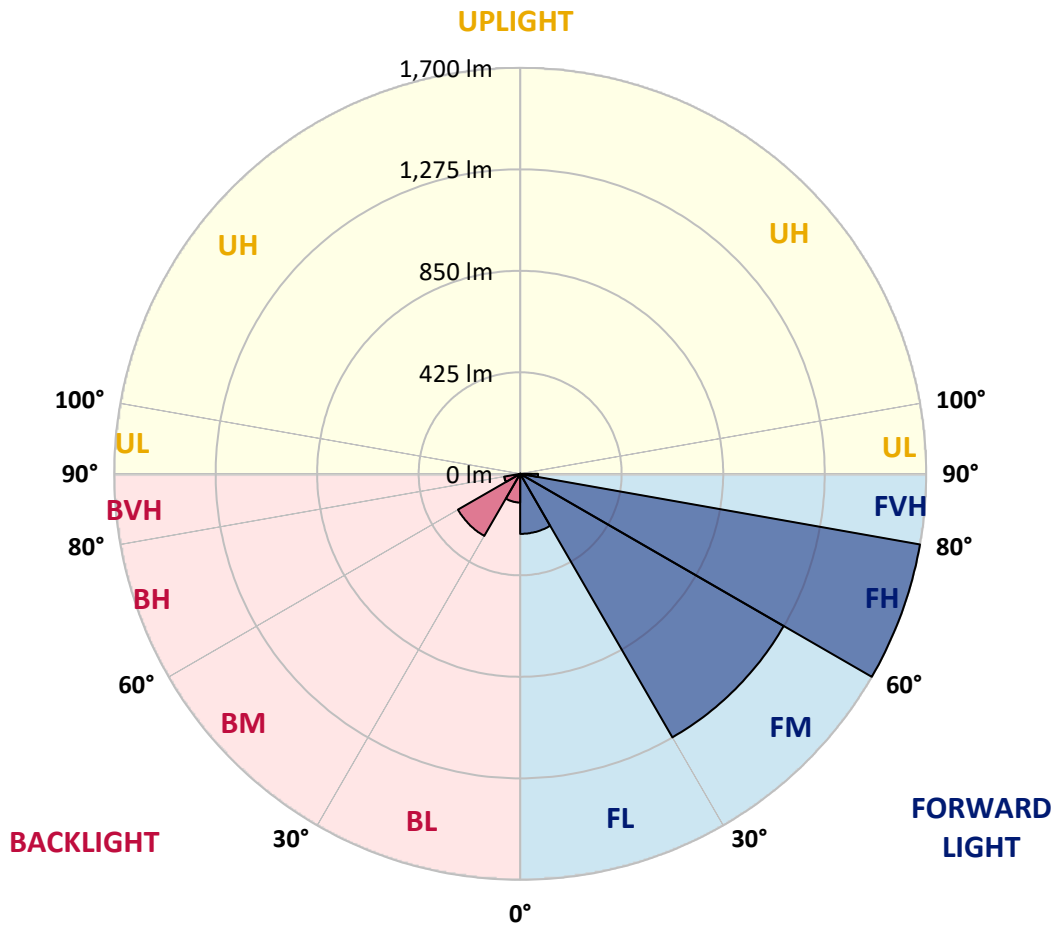
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.5	6.6			
FM (30°-60°)	1273.8	33.6			
FH (60°-80°)	1699.5	44.9			G1/1800
FVH (80°-90°)	74.9	2.0			G1/100
BL (0°-30°)	120.1	3.2	B1/500		
BM (30°-60°)	300.5	7.9	B1/1000		
BH (60°-80°)	68.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	516.8	518.8	517.7	515.4	514.8	513.7	512.3	511.7	509.7	508.0
5°	531.4	533.4	531.9	528.8	527.4	526.0	524.0	522.2	518.2	514.5
7.5°	547.4	549.1	547.4	542.8	540.5	538.8	535.9	533.4	528.8	523.4
10°	565.0	566.5	563.9	557.9	554.2	551.6	549.1	546.2	541.9	535.9
12.5°	581.6	583.3	579.3	572.2	567.9	565.3	562.5	560.2	555.9	550.2
15°	596.7	599.3	592.4	584.7	579.9	577.9	575.0	573.6	570.8	566.8
17.5°	608.1	609.9	602.7	593.6	588.2	586.7	584.7	585.6	585.0	583.0
20°	617.8	619.0	609.6	598.4	592.4	592.7	592.2	595.0	596.2	596.2
22.5°	629.8	630.1	618.1	604.1	597.0	599.0	599.9	603.0	605.3	607.6
25°	645.5	645.0	630.7	611.6	605.3	608.1	610.1	611.3	613.8	617.6
27.5°	668.9	667.2	648.9	623.6	616.1	618.7	622.4	621.8	620.7	623.6
30°	698.6	696.3	672.1	640.4	633.5	635.8	637.0	631.8	623.6	626.1
32.5°	745.7	741.7	708.0	659.2	648.7	651.2	649.8	639.2	627.0	629.5
35°	827.6	817.9	770.2	698.6	665.8	662.9	659.5	649.2	634.1	631.5
37.5°	1001.7	984.6	903.2	775.4	704.6	686.0	675.5	665.2	641.8	631.5
40°	1198.0	1180.6	1086.7	903.8	769.1	737.7	712.6	684.1	649.8	635.3
42.5°	1402.9	1383.8	1287.3	1063.0	861.3	796.8	750.0	699.2	662.9	646.7
45°	1631.8	1607.8	1481.7	1229.1	995.1	894.9	810.2	730.3	685.8	666.9
47.5°	1873.2	1842.1	1675.5	1390.4	1139.2	1030.8	920.3	785.9	719.4	697.2
50°	2087.3	2056.4	1875.5	1559.0	1273.9	1160.1	1045.9	863.0	769.9	740.0
52.5°	2241.1	2217.7	2057.6	1733.1	1414.0	1281.3	1159.8	952.6	833.9	794.8
55°	2344.1	2322.7	2186.6	1898.0	1577.0	1414.9	1271.9	1049.9	910.9	860.4
57.5°	2406.6	2394.3	2279.9	2045.3	1738.5	1561.0	1400.3	1156.9	1001.7	937.8
60°	2428.9	2418.9	2337.8	2185.7	1933.7	1736.5	1551.3	1277.6	1111.8	1025.6
62.5°	2369.5	2371.5	2379.5	2352.1	2139.5	1942.0	1732.2	1422.6	1234.0	1125.2
65°	2090.1	2106.7	2258.5	2536.4	2412.0	2199.4	1962.5	1599.5	1373.8	1238.5
67.5°	1730.5	1754.5	1943.4	2644.3	2702.5	2533.6	2283.3	1825.0	1540.5	1353.8
70°	1324.7	1350.4	1579.3	2621.8	2974.5	2898.9	2680.0	2111.8	1713.1	1433.7
72.5°	945.5	958.6	1138.9	2421.1	3086.1	3147.7	2972.2	2383.5	1801.3	1389.5
75°	664.4	662.1	781.7	1949.7	2912.3	3117.5	2869.8	2236.5	1630.1	1103.8
77.5°	289.4	289.9	390.4	1184.0	2324.4	2662.6	2385.5	1400.9	1136.4	585.0
80°	75.1	77.3	143.3	471.4	1399.5	1757.4	1454.9	615.8	525.1	142.7
82.5°	26.5	28.3	65.9	148.1	516.2	805.9	647.8	196.9	137.0	40.8
85°	7.7	9.1	35.4	45.4	106.7	227.7	157.2	38.2	33.7	21.1
87.5°	0.0	1.1	7.1	6.3	6.3	4.3	8.0	4.3	5.4	2.6
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
506.0	2.5°	504.3	502.3	498.0	493.4	489.1	485.1	484.0	479.7	477.7	478.0
510.0	5°	506.8	503.1	494.8	484.9	474.6	462.9	453.2	439.5	427.8	426.4
517.7	7.5°	513.7	507.7	494.3	474.9	449.2	416.9	387.0	357.3	340.5	331.3
529.1	10°	524.2	516.2	495.7	458.6	404.1	346.4	301.1	263.7	244.6	235.7
543.1	12.5°	536.8	527.9	498.0	430.9	345.9	270.3	221.2	198.3	194.3	193.8
560.2	15°	554.5	544.8	500.6	393.5	282.8	205.8	183.2	183.5	186.6	188.3
578.7	17.5°	574.2	564.5	496.8	347.9	220.6	175.8	175.2	177.8	182.4	184.1
595.9	20°	594.2	585.0	483.7	294.2	178.4	167.5	169.8	172.7	177.2	179.5
612.7	22.5°	614.7	606.7	462.9	237.1	161.0	161.5	164.4	167.2	172.4	174.9
629.3	25°	636.7	629.8	435.2	190.1	153.5	155.2	159.0	162.4	167.8	170.9
643.2	27.5°	658.9	653.8	403.8	158.7	146.7	148.7	153.0	157.5	163.0	166.7
655.5	30°	683.2	680.3	378.7	147.0	140.1	141.8	146.7	151.8	157.8	162.4
667.8	32.5°	708.0	707.5	366.4	155.5	134.1	135.3	139.5	144.7	152.1	157.8
678.1	35°	732.6	733.7	359.3	179.8	132.1	129.0	131.8	136.4	145.3	152.4
689.8	37.5°	764.0	766.8	359.0	206.0	137.0	122.7	124.7	127.8	135.6	143.8
708.0	40°	810.8	825.9	377.3	228.6	145.5	117.0	117.6	118.1	122.1	129.0
732.3	42.5°	873.0	917.2	443.2	244.0	149.0	111.9	109.9	106.7	106.2	109.9
765.4	45°	950.3	1027.6	559.1	252.6	145.5	106.2	100.7	92.5	89.3	91.9
810.2	47.5°	1041.3	1148.6	696.3	254.6	139.8	99.0	89.3	78.5	75.9	76.8
870.4	50°	1130.1	1239.4	817.0	238.0	130.4	89.9	76.8	67.6	65.9	66.2
941.5	52.5°	1208.6	1270.5	851.3	198.9	117.9	78.8	65.9	59.6	58.5	58.5
1019.9	55°	1260.5	1236.8	759.1	152.1	102.2	67.3	56.5	53.4	52.8	52.5
1107.6	57.5°	1271.4	1127.2	573.3	109.9	79.9	56.8	50.2	48.5	47.4	46.2
1197.4	60°	1232.5	944.6	365.0	76.8	59.9	48.5	44.5	43.4	41.1	38.8
1281.9	62.5°	1148.6	713.4	202.0	53.4	48.2	41.4	39.4	38.0	33.7	30.0
1349.0	65°	1035.9	474.3	89.3	41.7	39.4	34.8	33.7	31.7	26.5	22.3
1374.4	67.5°	922.6	273.1	40.2	33.4	31.7	28.5	27.7	26.3	22.5	18.5
1309.6	70°	793.4	138.4	27.7	26.5	24.5	21.7	22.5	22.3	18.5	15.1
1068.2	72.5°	590.7	68.8	20.8	20.0	17.7	15.4	18.5	18.3	14.6	11.4
658.7	75°	334.5	34.0	15.1	14.0	10.6	11.4	14.8	14.0	10.0	7.4
278.0	77.5°	132.7	17.4	10.0	8.6	6.3	7.7	10.8	9.4	5.1	3.1
53.1	80°	30.5	8.6	5.1	3.7	2.9	4.6	5.7	3.4	1.4	0.3
14.3	82.5°	8.6	3.7	1.7	1.4	1.4	1.7	1.4	0.6	0.0	0.0
3.7	85°	2.9	1.7	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.1	87.5°	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
501.7
477.7
425.5
330.8
234.0
193.5
188.1
183.8
179.5
174.9
170.9
166.9
163.0
158.4
153.5
145.3
131.3
111.9
91.9
76.5
66.2
58.2
51.9
45.7
38.0
28.8
21.4
18.0
14.6
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