

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: P938961

Luminaire Tested: **GALN-SB1B-830-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938961
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-SB1B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA 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: 3533 lumens
Efficiency: N/A
Efficacy: 88.8 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

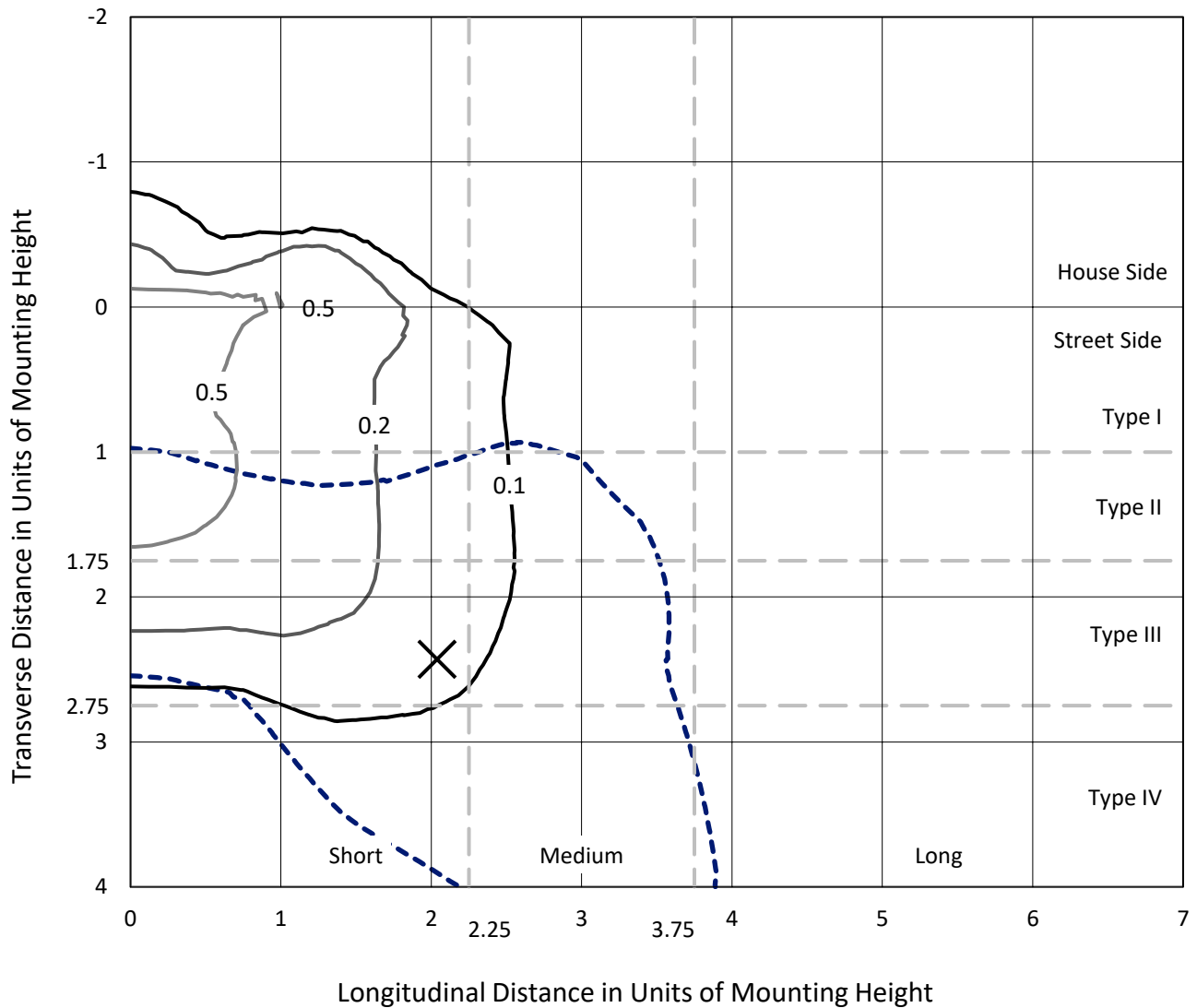
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

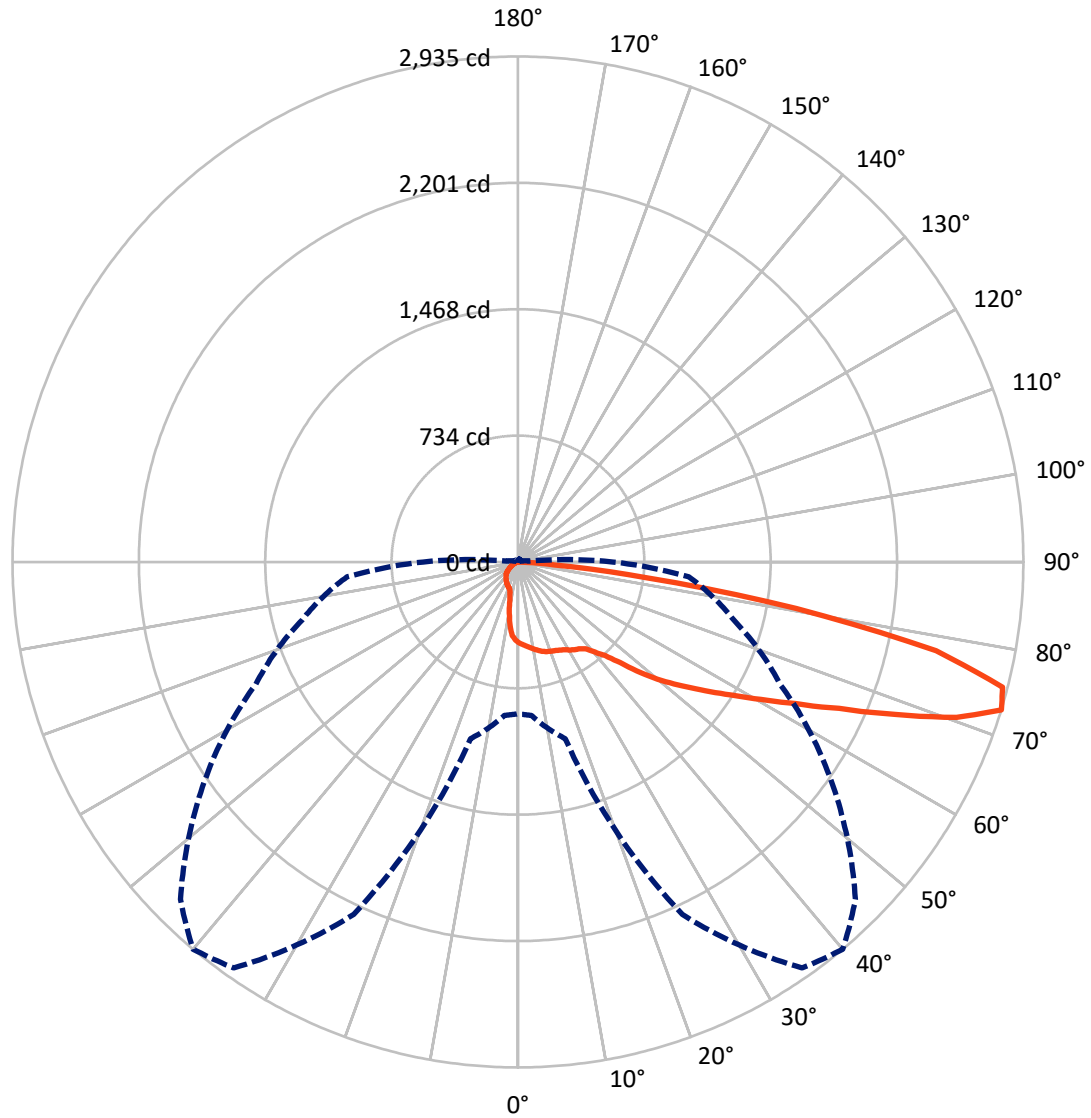
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	456.2	0.0	456.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3076.8	0.0	3076.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	3533.0	0.0	3533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.2
10°-20°	116.0	3.3
20°-30°	187.7	5.3
30°-40°	277.2	7.8
40°-50°	466.5	13.2
50°-60°	724.3	20.5
60°-70°	906.3	25.7
70°-80°	742.0	21.0
80°-90°	70.4	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°	3533.0	100.0
0°-180°	3533.0	100.0



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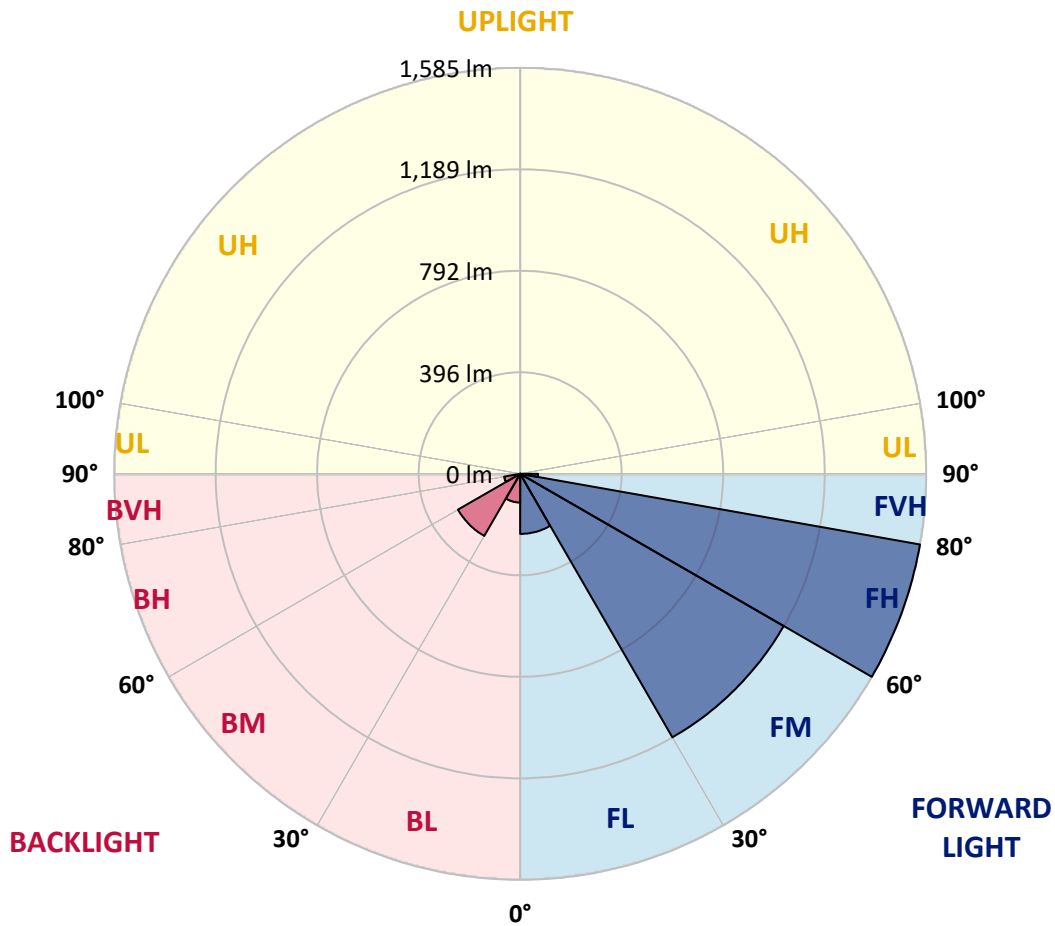
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.5	6.6			
FM (30°-60°)	1187.7	33.6			
FH (60°-80°)	1584.7	44.9			G1/1800
FVH (80°-90°)	69.8	2.0			G1/100
BL (0°-30°)	112.0	3.2	B1/500		
BM (30°-60°)	280.2	7.9	B1/1000		
BH (60°-80°)	63.6	1.8	B0/110		G0/110
BVH (80°-90°)	0.5	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°	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8
2.5°	481.9	483.8	482.7	480.6	480.0	479.0	477.6	477.1	475.2	473.7
5°	495.5	497.3	496.0	493.1	491.7	490.4	488.6	487.0	483.2	479.8
7.5°	510.4	512.0	510.4	506.1	504.0	502.4	499.7	497.3	493.1	488.0
10°	526.9	528.2	525.8	520.2	516.8	514.4	512.0	509.3	505.3	499.7
12.5°	542.3	543.9	540.2	533.5	529.5	527.1	524.5	522.3	518.4	513.0
15°	556.4	558.8	552.4	545.2	540.7	538.8	536.2	534.9	532.2	528.5
17.5°	567.1	568.6	562.0	553.5	548.4	547.1	545.2	546.0	545.5	543.6
20°	576.1	577.2	568.4	558.0	552.4	552.7	552.2	554.8	555.9	555.9
22.5°	587.3	587.5	576.4	563.3	556.7	558.5	559.3	562.3	564.4	566.5
25°	601.9	601.4	588.1	570.2	564.4	567.1	568.9	570.0	572.4	575.8
27.5°	623.7	622.1	605.1	581.4	574.5	576.9	580.4	579.8	578.8	581.4
30°	651.4	649.3	626.7	597.1	590.7	592.9	593.9	589.1	581.4	583.8
32.5°	695.3	691.6	660.2	614.7	604.8	607.2	605.9	596.1	584.6	587.0
35°	771.7	762.6	718.2	651.4	620.8	618.1	614.9	605.4	591.3	588.9
37.5°	934.0	918.0	842.2	723.0	657.0	639.7	629.9	620.3	598.5	588.9
40°	1117.1	1100.8	1013.3	842.7	717.1	687.9	664.4	637.8	605.9	592.3
42.5°	1308.1	1290.3	1200.4	991.2	803.1	742.9	699.3	651.9	618.1	603.0
45°	1521.5	1499.2	1381.6	1146.1	927.9	834.5	755.4	680.9	639.4	621.9
47.5°	1746.7	1717.7	1562.3	1296.4	1062.3	961.1	858.2	732.8	670.8	650.1
50°	1946.2	1917.5	1748.8	1453.7	1187.9	1081.7	975.2	804.7	717.9	690.0
52.5°	2089.7	2067.8	1918.6	1616.0	1318.5	1194.8	1081.4	888.2	777.5	741.1
55°	2185.7	2165.8	2038.8	1769.8	1470.4	1319.3	1186.0	979.0	849.4	802.3
57.5°	2244.0	2232.6	2125.8	1907.1	1621.1	1455.5	1305.7	1078.8	934.0	874.4
60°	2264.7	2255.4	2179.9	2038.0	1803.1	1619.2	1446.5	1191.3	1036.7	956.4
62.5°	2209.4	2211.3	2218.7	2193.2	1994.9	1810.8	1615.2	1326.5	1150.6	1049.2
65°	1948.9	1964.3	2105.9	2365.1	2249.0	2050.8	1829.9	1491.5	1281.0	1154.9
67.5°	1613.6	1636.0	1812.1	2465.7	2519.9	2362.4	2129.0	1701.7	1436.4	1262.4
70°	1235.2	1259.2	1472.6	2444.6	2773.5	2703.0	2498.9	1969.1	1597.4	1336.9
72.5°	881.6	893.8	1062.0	2257.6	2877.6	2935.0	2771.4	2222.4	1679.6	1295.6
75°	619.5	617.3	728.8	1818.0	2715.5	2906.8	2675.9	2085.4	1519.9	1029.3
77.5°	269.8	270.4	364.0	1104.0	2167.4	2482.7	2224.3	1306.3	1059.6	545.5
80°	70.0	72.1	133.6	439.6	1304.9	1638.6	1356.6	574.2	489.6	133.0
82.5°	24.7	26.3	61.5	138.1	481.4	751.5	604.0	183.6	127.7	38.1
85°	7.2	8.5	33.0	42.3	99.5	212.3	146.6	35.7	31.4	19.7
87.5°	0.0	1.1	6.7	5.9	5.9	4.0	7.5	4.0	5.1	2.4
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°
467.8	0°	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8	467.8
471.8	2.5°	470.2	468.3	464.3	460.1	456.1	452.4	451.3	447.3	445.4	445.7
475.5	5°	472.6	469.1	461.4	452.1	442.5	431.6	422.6	409.8	398.9	397.5
482.7	7.5°	479.0	473.4	460.9	442.8	418.8	388.8	360.8	333.2	317.5	308.9
493.3	10°	488.8	481.4	462.2	427.6	376.8	323.0	280.7	245.9	228.0	219.8
506.4	12.5°	500.5	492.3	464.3	401.8	322.5	252.0	206.2	184.9	181.2	180.7
522.3	15°	517.0	508.0	466.7	366.9	263.7	191.9	170.8	171.1	174.0	175.6
539.6	17.5°	535.4	526.3	463.3	324.4	205.7	163.9	163.4	165.8	170.0	171.6
555.6	20°	554.0	545.5	451.0	274.3	166.3	156.2	158.3	161.0	165.2	167.4
571.3	22.5°	573.2	565.7	431.6	221.1	150.1	150.6	153.3	155.9	160.7	163.1
586.7	25°	593.7	587.3	405.8	177.2	143.2	144.8	148.2	151.4	156.5	159.4
599.8	27.5°	614.4	609.6	376.5	147.9	136.8	138.6	142.6	146.9	151.9	155.4
611.2	30°	637.0	634.4	353.1	137.0	130.7	132.3	136.8	141.6	147.2	151.4
622.7	32.5°	660.2	659.7	341.7	145.0	125.1	126.1	130.1	134.9	141.8	147.2
632.2	35°	683.1	684.1	335.0	167.6	123.2	120.3	122.9	127.2	135.4	142.1
643.2	37.5°	712.3	715.0	334.7	192.1	127.7	114.4	116.3	119.2	126.4	134.1
660.2	40°	756.0	770.1	351.8	213.1	135.7	109.1	109.6	110.2	113.9	120.3
682.8	42.5°	814.0	855.2	413.2	227.5	138.9	104.3	102.4	99.5	99.0	102.4
713.7	45°	886.1	958.2	521.3	235.5	135.7	99.0	93.9	86.2	83.3	85.7
755.4	47.5°	971.0	1071.0	649.3	237.4	130.4	92.3	83.3	73.2	70.8	71.6
811.6	50°	1053.7	1155.7	761.8	221.9	121.6	83.8	71.6	63.1	61.5	61.7
877.9	52.5°	1126.9	1184.7	793.8	185.5	109.9	73.4	61.5	55.6	54.5	54.5
951.0	55°	1175.3	1153.3	707.8	141.8	95.3	62.8	52.7	49.8	49.2	49.0
1032.7	57.5°	1185.5	1051.1	534.6	102.4	74.5	53.0	46.8	45.2	44.2	43.1
1116.5	60°	1149.3	880.8	340.3	71.6	55.9	45.2	41.5	40.4	38.3	36.2
1195.3	62.5°	1071.0	665.2	188.4	49.8	45.0	38.6	36.7	35.4	31.4	27.9
1257.8	65°	965.9	442.3	83.3	38.9	36.7	32.5	31.4	29.5	24.7	20.8
1281.5	67.5°	860.3	254.7	37.5	31.1	29.5	26.6	25.8	24.5	21.0	17.3
1221.1	70°	739.7	129.1	25.8	24.7	22.9	20.2	21.0	20.8	17.3	14.1
996.0	72.5°	550.8	64.1	19.4	18.6	16.5	14.4	17.3	17.0	13.6	10.6
614.2	75°	311.9	31.7	14.1	13.0	9.8	10.6	13.8	13.0	9.3	6.9
259.2	77.5°	123.7	16.2	9.3	8.0	5.9	7.2	10.1	8.8	4.8	2.9
49.5	80°	28.5	8.0	4.8	3.5	2.7	4.3	5.3	3.2	1.3	0.3
13.3	82.5°	8.0	3.5	1.6	1.3	1.3	1.6	1.3	0.5	0.0	0.0
3.5	85°	2.7	1.6	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.1	87.5°	1.1	0.5	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>
467.8
445.4
396.8
308.4
218.2
180.4
175.4
171.4
167.4
163.1
159.4
155.7
151.9
147.7
143.2
135.4
122.4
104.3
85.7
71.3
61.7
54.3
48.4
42.6
35.4
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