

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: P939171

Luminaire Tested: **GALN-SB1C-927-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939171
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-927-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 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: 3183 lumens
Efficiency: N/A
Efficacy: 58.5 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

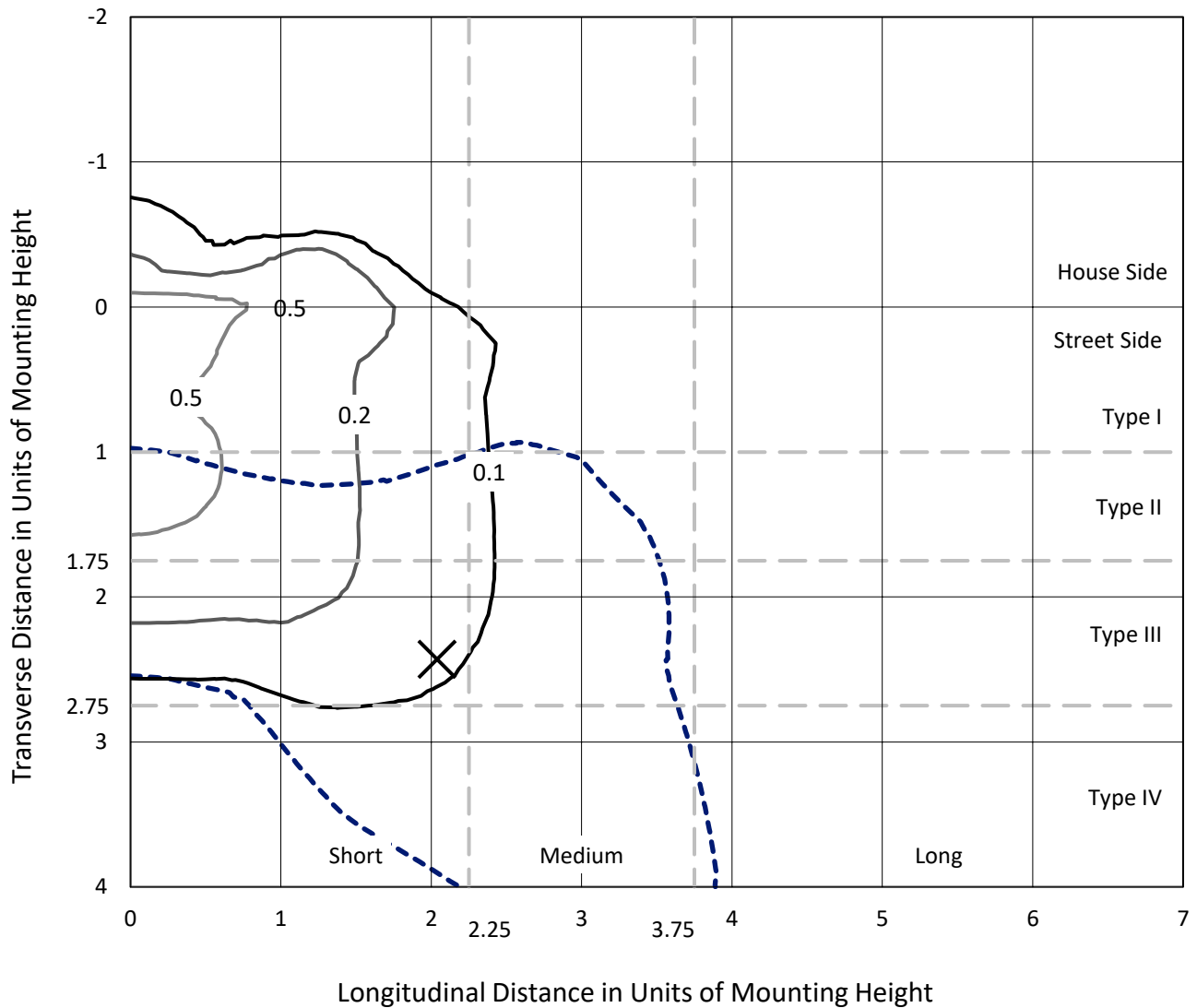
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

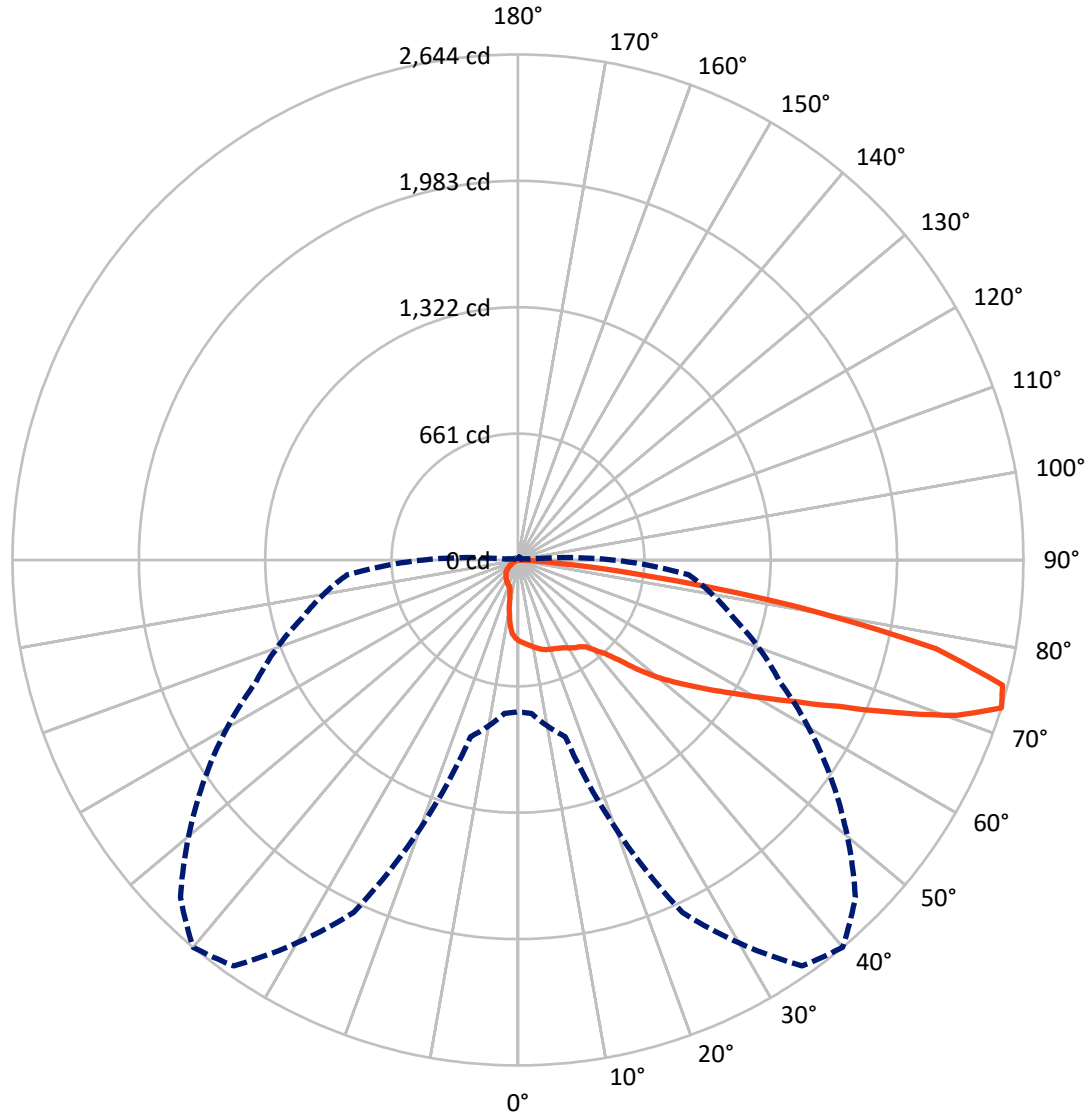
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	411.0	0.0	411.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2772.0	0.0	2772.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	3183.0	0.0	3183.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.2
10°-20°	104.5	3.3
20°-30°	169.1	5.3
30°-40°	249.7	7.8
40°-50°	420.3	13.2
50°-60°	652.5	20.5
60°-70°	816.5	25.7
70°-80°	668.5	21.0
80°-90°	63.4	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°	3183.0	100.0
0°-180°	3183.0	100.0



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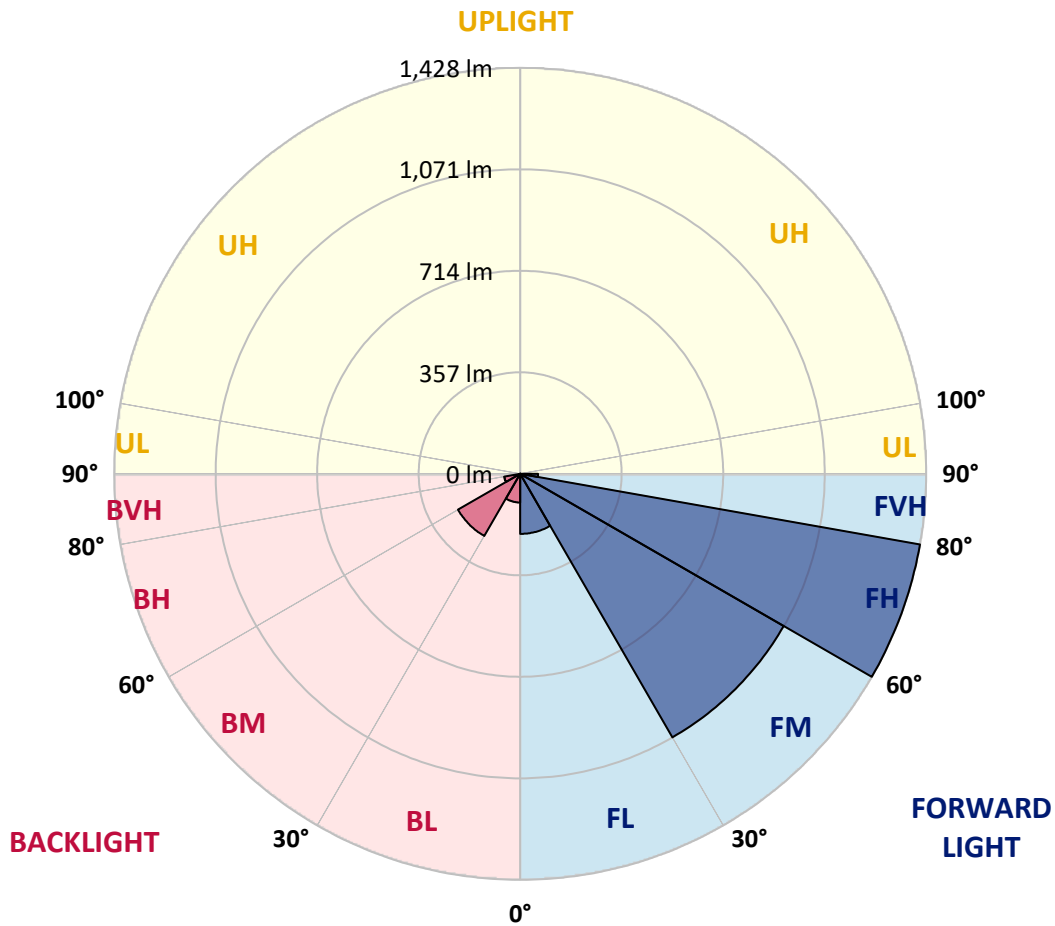
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.3	6.6			
FM (30°-60°)	1070.1	33.6			
FH (60°-80°)	1427.7	44.9			G1/1800
FVH (80°-90°)	62.9	2.0			G1/100
BL (0°-30°)	100.9	3.2	B0/110		
BM (30°-60°)	252.4	7.9	B1/1000		
BH (60°-80°)	57.3	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°	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5
2.5°	434.2	435.8	434.9	433.0	432.5	431.5	430.3	429.8	428.2	426.7
5°	446.4	448.1	446.9	444.2	443.0	441.8	440.2	438.7	435.4	432.2
7.5°	459.8	461.3	459.8	456.0	454.1	452.6	450.2	448.1	444.2	439.7
10°	474.7	475.9	473.7	468.7	465.6	463.4	461.3	458.9	455.3	450.2
12.5°	488.6	490.0	486.7	480.7	477.1	474.9	472.5	470.6	467.0	462.2
15°	501.3	503.4	497.7	491.2	487.1	485.5	483.1	481.9	479.5	476.1
17.5°	510.9	512.3	506.3	498.6	494.1	492.9	491.2	491.9	491.5	489.8
20°	519.0	520.0	512.1	502.7	497.7	497.9	497.5	499.8	500.8	500.8
22.5°	529.1	529.3	519.3	507.5	501.5	503.2	503.9	506.6	508.5	510.4
25°	542.3	541.8	529.8	513.8	508.5	510.9	512.6	513.5	515.7	518.8
27.5°	561.9	560.5	545.2	523.8	517.6	519.7	522.9	522.4	521.4	523.8
30°	586.9	585.0	564.6	538.0	532.2	534.1	535.1	530.8	523.8	526.0
32.5°	626.4	623.1	594.8	553.8	544.9	547.1	545.9	537.0	526.7	528.9
35°	695.2	687.1	647.0	586.9	559.3	556.9	554.0	545.4	532.7	530.5
37.5°	841.5	827.1	758.8	651.4	591.9	576.3	567.5	558.8	539.2	530.5
40°	1006.4	991.8	912.9	759.2	646.1	619.7	598.6	574.6	545.9	533.7
42.5°	1178.5	1162.5	1081.4	893.0	723.5	669.3	630.0	587.4	556.9	543.2
45°	1370.8	1350.7	1244.7	1032.5	836.0	751.8	680.6	613.5	576.1	560.3
47.5°	1573.6	1547.5	1407.5	1168.0	957.0	865.9	773.1	660.2	604.4	585.7
50°	1753.4	1727.5	1575.5	1309.7	1070.2	974.5	878.6	725.0	646.8	621.6
52.5°	1882.6	1863.0	1728.5	1455.9	1187.9	1076.4	974.3	800.2	700.5	667.7
55°	1969.2	1951.2	1836.9	1594.5	1324.8	1188.6	1068.5	882.0	765.2	722.8
57.5°	2021.7	2011.4	1915.2	1718.2	1460.5	1311.4	1176.4	971.9	841.5	787.8
60°	2040.4	2032.0	1963.9	1836.1	1624.4	1458.8	1303.2	1073.3	934.0	861.6
62.5°	1990.5	1992.2	1998.9	1975.9	1797.3	1631.4	1455.2	1195.1	1036.6	945.3
65°	1755.8	1769.7	1897.3	2130.8	2026.2	1847.6	1648.7	1343.7	1154.1	1040.5
67.5°	1453.8	1473.9	1632.6	2221.4	2270.3	2128.4	1918.1	1533.1	1294.1	1137.3
70°	1112.9	1134.4	1326.7	2202.5	2498.8	2435.2	2251.4	1774.0	1439.1	1204.4
72.5°	794.2	805.3	956.8	2033.9	2592.5	2644.3	2496.8	2002.3	1513.2	1167.3
75°	558.1	556.2	656.6	1637.9	2446.5	2618.9	2410.8	1878.8	1369.4	927.3
77.5°	243.1	243.6	328.0	994.7	1952.6	2236.7	2003.9	1176.9	954.6	491.5
80°	63.1	65.0	120.3	396.0	1175.7	1476.3	1222.2	517.3	441.1	119.9
82.5°	22.3	23.7	55.4	124.4	433.7	677.0	544.2	165.4	115.1	34.3
85°	6.5	7.7	29.7	38.1	89.7	191.3	132.1	32.1	28.3	17.7
87.5°	0.0	1.0	6.0	5.3	5.3	3.6	6.7	3.6	4.6	2.2
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°
421.5	0°	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5
425.1	2.5°	423.6	421.9	418.3	414.5	410.9	407.6	406.6	403.0	401.3	401.6
428.4	5°	425.8	422.7	415.7	407.3	398.7	388.9	380.7	369.2	359.4	358.2
434.9	7.5°	431.5	426.5	415.2	398.9	377.3	350.3	325.1	300.1	286.0	278.3
444.5	10°	440.4	433.7	416.4	385.3	339.5	291.0	252.9	221.5	205.5	198.0
456.2	12.5°	450.9	443.5	418.3	362.0	290.6	227.0	185.8	166.6	163.3	162.8
470.6	15°	465.8	457.7	420.5	330.6	237.6	172.8	153.9	154.1	156.8	158.2
486.2	17.5°	482.3	474.2	417.4	292.2	185.3	147.7	147.2	149.4	153.2	154.6
500.6	20°	499.1	491.5	406.4	247.2	149.8	140.7	142.6	145.0	148.9	150.8
514.7	22.5°	516.4	509.7	388.9	199.2	135.2	135.7	138.1	140.5	144.8	147.0
528.6	25°	534.8	529.1	365.6	159.7	129.0	130.4	133.5	136.4	141.0	143.6
540.4	27.5°	553.5	549.2	339.2	133.3	123.2	124.9	128.5	132.3	136.9	140.0
550.7	30°	573.9	571.5	318.1	123.5	117.7	119.1	123.2	127.5	132.6	136.4
561.0	32.5°	594.8	594.3	307.8	130.7	112.7	113.6	117.2	121.5	127.8	132.6
569.6	35°	615.4	616.4	301.8	151.0	111.0	108.4	110.8	114.6	122.0	128.0
579.4	37.5°	641.8	644.2	301.6	173.1	115.1	103.1	104.8	107.4	113.9	120.8
594.8	40°	681.1	693.8	316.9	192.0	122.3	98.3	98.8	99.3	102.6	108.4
615.2	42.5°	733.4	770.5	372.3	205.0	125.1	94.0	92.3	89.7	89.2	92.3
643.0	45°	798.3	863.3	469.6	212.2	122.3	89.2	84.6	77.7	75.0	77.2
680.6	47.5°	874.8	964.9	585.0	213.8	117.5	83.2	75.0	65.9	63.8	64.5
731.2	50°	949.4	1041.2	686.4	199.9	109.6	75.5	64.5	56.8	55.4	55.6
790.9	52.5°	1015.3	1067.3	715.1	167.1	99.0	66.2	55.4	50.1	49.1	49.1
856.8	55°	1058.9	1039.0	637.7	127.8	85.8	56.6	47.5	44.8	44.4	44.1
930.4	57.5°	1068.0	947.0	481.6	92.3	67.1	47.7	42.2	40.8	39.8	38.8
1005.9	60°	1035.4	793.5	306.6	64.5	50.3	40.8	37.4	36.4	34.5	32.6
1076.9	62.5°	964.9	599.3	169.7	44.8	40.5	34.8	33.1	31.9	28.3	25.2
1133.2	65°	870.2	398.4	75.0	35.0	33.1	29.2	28.3	26.6	22.3	18.7
1154.6	67.5°	775.1	229.4	33.8	28.0	26.6	24.0	23.3	22.1	18.9	15.6
1100.1	70°	666.5	116.3	23.3	22.3	20.6	18.2	18.9	18.7	15.6	12.7
897.3	72.5°	496.3	57.8	17.5	16.8	14.9	12.9	15.6	15.3	12.2	9.6
553.3	75°	281.0	28.5	12.7	11.7	8.9	9.6	12.5	11.7	8.4	6.2
233.5	77.5°	111.5	14.6	8.4	7.2	5.3	6.5	9.1	7.9	4.3	2.6
44.6	80°	25.7	7.2	4.3	3.1	2.4	3.8	4.8	2.9	1.2	0.2
12.0	82.5°	7.2	3.1	1.4	1.2	1.2	1.4	1.2	0.5	0.0	0.0
3.1	85°	2.4	1.4	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
1.0	87.5°	1.0	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>
421.5
401.3
357.4
277.9
196.6
162.5
158.0
154.4
150.8
147.0
143.6
140.2
136.9
133.1
129.0
122.0
110.3
94.0
77.2
64.2
55.6
48.9
43.6
38.4
31.9
24.2
18.0
15.1
12.2
9.1
5.8
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