

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: P939042

Luminaire Tested: **GALN-SB1B-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1B-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3884 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

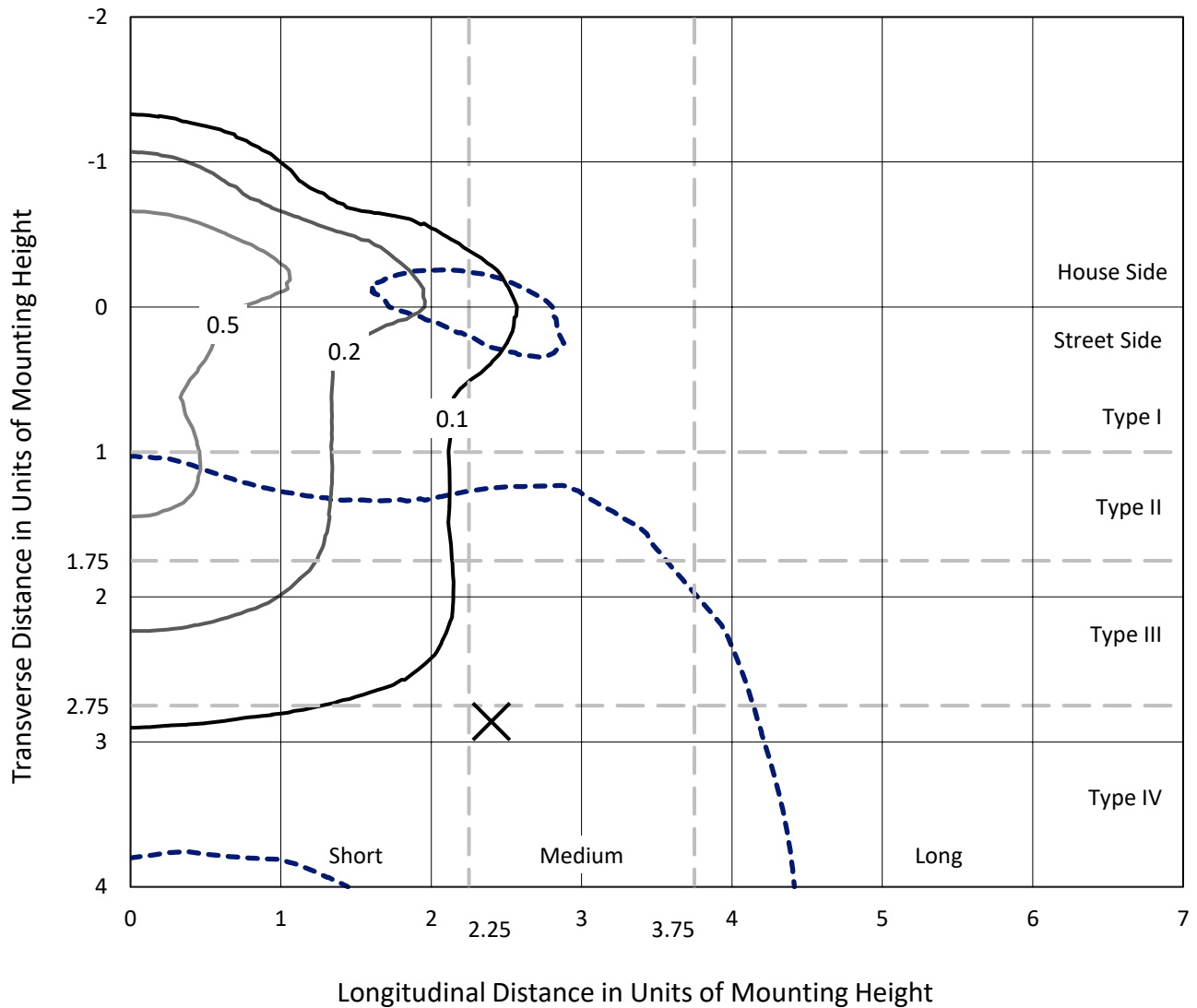
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

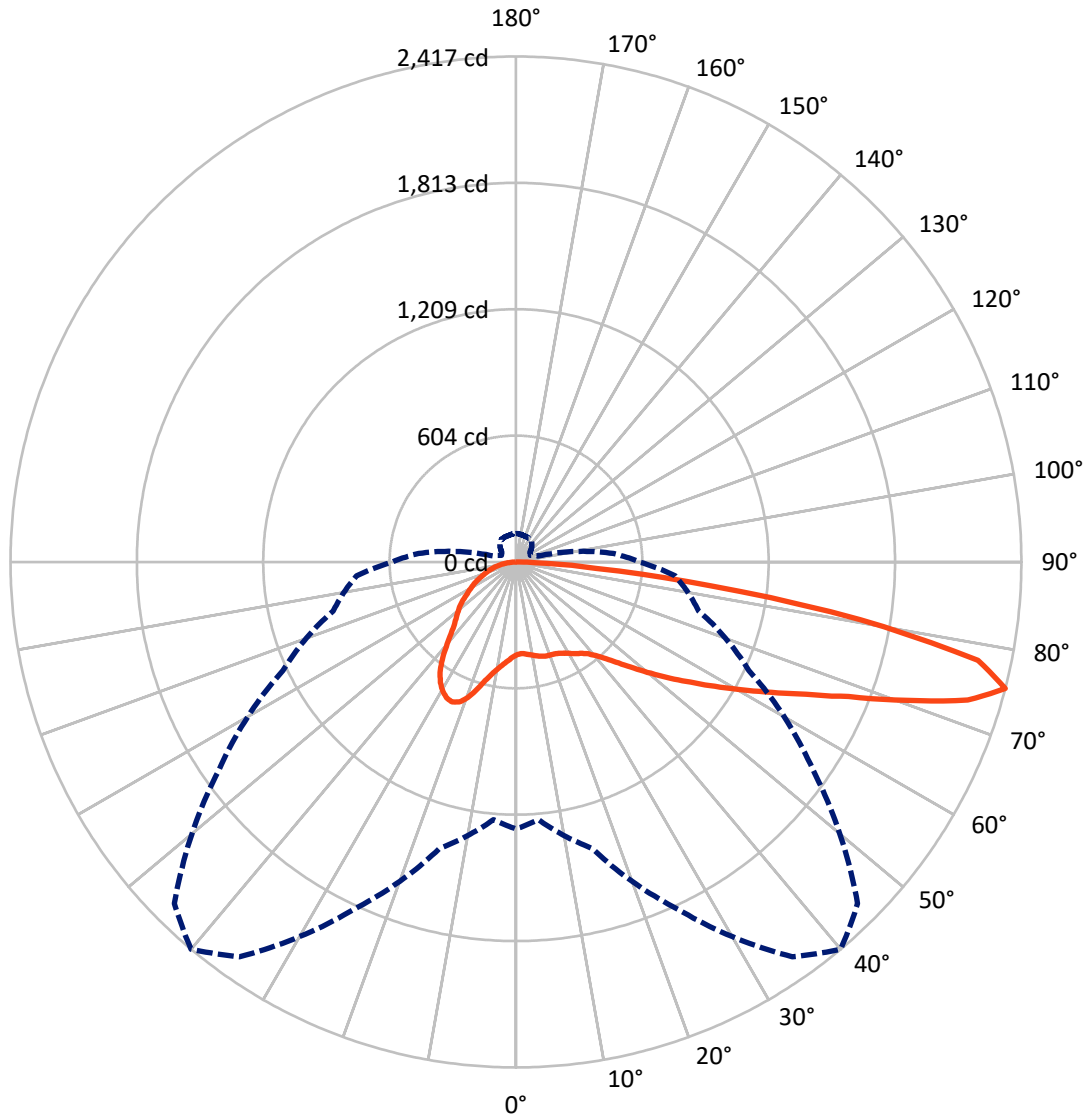
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.4	0.0	1203.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	2680.6	0.0	2680.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	3884.0	0.0	3884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	1.1
10°-20°	148.8	3.8
20°-30°	271.8	7.0
30°-40°	385.5	9.9
40°-50°	520.5	13.4
50°-60°	700.2	18.0
60°-70°	888.7	22.9
70°-80°	806.6	20.8
80°-90°	117.6	3.0
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°	3884.0	100.0
0°-180°	3884.0	100.0

Coefficient of Utilization



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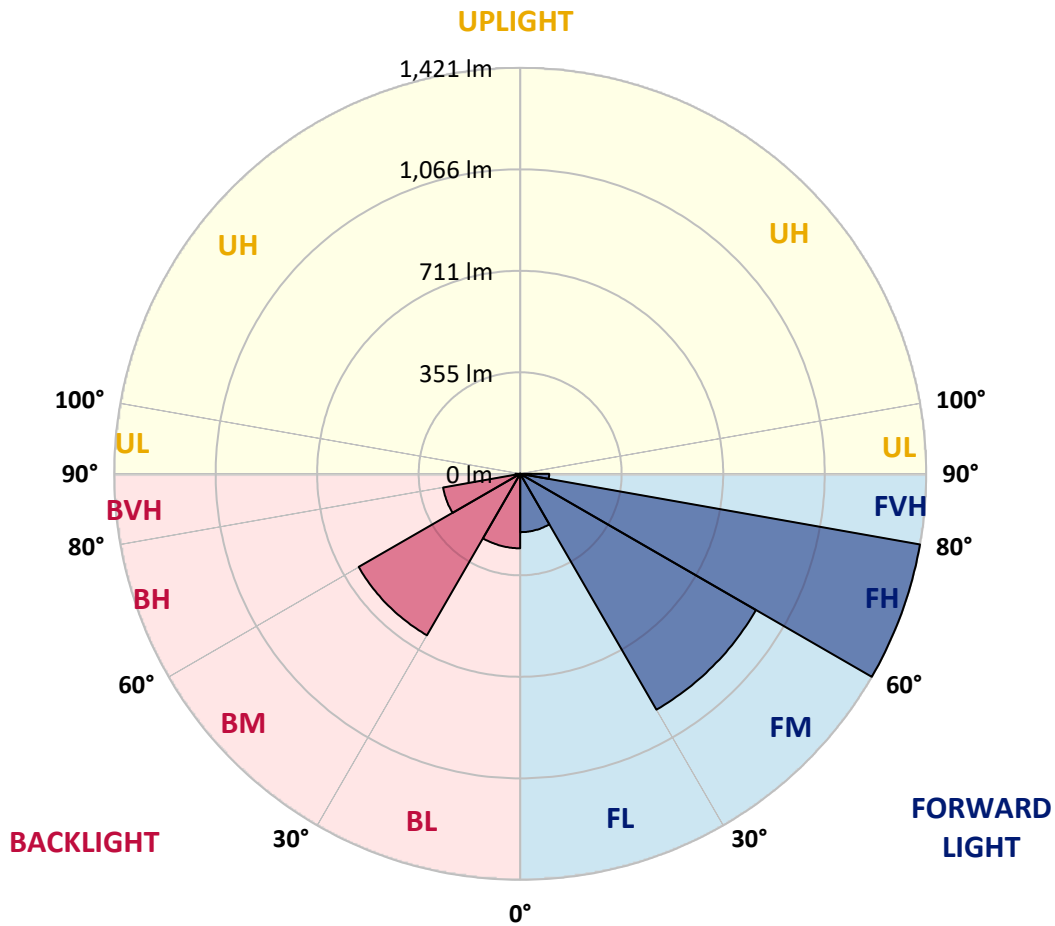
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.3	5.3			
FM	(30°-60°)	953.4	24.5			
FH	(60°-80°)	1421.5	36.6			G1/1800
FVH	(80°-90°)	101.4	2.6			G2/225
BL	(0°-30°)	260.7	6.7	B1/500		
BM	(30°-60°)	652.7	16.8	B1/1000		
BH	(60°-80°)	273.8	7.0	B1/500		G1/500
BVH	(80°-90°)	16.2	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1
2.5°	437.3	439.8	439.2	438.4	438.4	438.6	438.4	439.8	441.3	442.7
5°	441.9	444.3	443.1	442.1	441.3	441.1	440.4	440.2	441.1	442.9
7.5°	450.7	453.2	451.4	449.5	447.8	447.0	446.2	445.0	444.3	445.4
10°	460.6	463.1	460.8	457.5	454.9	453.8	453.0	451.8	450.9	451.6
12.5°	470.5	473.0	469.9	465.4	461.9	461.2	460.2	459.8	459.6	459.4
15°	479.8	481.8	477.9	472.6	468.9	467.8	466.8	467.4	468.4	469.7
17.5°	487.0	489.0	483.3	476.3	472.8	472.4	471.7	473.8	476.7	479.8
20°	493.6	495.6	488.2	478.7	474.6	474.6	474.8	479.2	483.3	487.8
22.5°	502.9	504.5	495.4	482.5	476.5	476.9	478.5	482.9	488.0	494.2
25°	516.7	517.9	506.8	489.5	482.7	483.9	485.3	487.4	492.3	499.6
27.5°	538.9	539.9	525.3	501.8	491.5	493.6	495.6	494.2	496.5	502.6
30°	570.2	570.8	552.3	521.2	506.6	507.6	508.0	502.0	497.7	502.6
32.5°	607.3	607.1	585.0	544.7	523.7	522.6	519.1	507.4	497.3	501.6
35°	664.8	662.5	634.1	577.6	543.0	536.6	528.4	513.4	499.3	500.6
37.5°	759.9	752.9	713.6	631.6	571.9	555.6	543.4	523.0	503.9	500.2
40°	867.3	858.4	815.2	705.6	615.1	589.0	569.4	536.8	511.3	502.0
42.5°	994.6	982.0	935.5	792.7	669.9	632.0	602.6	554.4	522.2	508.0
45°	1150.9	1134.2	1068.3	891.0	738.9	688.5	649.1	580.9	538.9	519.5
47.5°	1308.9	1313.1	1219.3	1003.4	821.7	758.1	707.4	620.9	563.2	538.1
50°	1476.8	1479.7	1369.5	1128.1	915.7	836.8	772.9	665.6	597.0	564.4
52.5°	1607.8	1608.3	1505.9	1258.5	1013.5	923.3	843.6	716.7	636.1	599.5
55°	1689.8	1688.8	1601.5	1381.9	1126.0	1014.1	921.9	774.8	683.9	640.7
57.5°	1749.4	1746.3	1667.4	1488.0	1245.9	1121.5	1010.4	840.7	740.4	689.7
60°	1772.0	1770.2	1712.1	1579.6	1372.0	1240.1	1112.6	914.4	804.4	747.6
62.5°	1780.7	1784.2	1756.0	1668.4	1506.9	1371.6	1224.9	1002.6	876.5	813.1
65°	1811.2	1817.6	1811.8	1784.6	1659.3	1525.4	1373.8	1107.5	955.2	883.3
67.5°	1871.5	1877.9	1880.4	1923.6	1845.6	1717.2	1559.6	1238.1	1047.3	956.3
70°	1870.1	1868.2	1911.9	2034.3	2078.8	1982.8	1810.1	1398.8	1157.1	1016.8
72.5°	1702.2	1687.4	1790.6	2033.0	2272.8	2260.0	2116.1	1606.0	1251.9	1024.2
75°	1277.0	1237.5	1419.8	1832.2	2305.2	2417.4	2310.5	1734.5	1229.4	905.0
77.5°	546.1	506.4	721.2	1356.3	2063.1	2259.8	2132.1	1513.3	981.4	598.4
80°	143.0	142.8	218.0	614.9	1403.1	1668.8	1464.1	977.3	560.7	213.8
82.5°	59.1	57.7	80.1	239.2	685.6	936.5	764.3	435.9	202.5	57.9
85°	22.0	21.8	38.9	82.6	241.8	386.3	279.5	111.4	50.5	28.2
87.5°	6.2	6.0	8.4	28.6	58.9	89.4	47.8	18.3	14.2	11.1
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°
444.1	0°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1
445.0	2.5°	445.6	446.6	448.5	449.9	451.8	453.8	456.7	458.6	460.4	461.7
446.0	5°	447.4	449.7	454.4	459.2	464.7	469.9	475.9	480.2	483.7	484.7
449.7	7.5°	451.6	455.3	463.3	471.3	480.2	488.6	497.3	504.7	510.7	512.9
456.3	10°	458.8	463.7	475.0	486.4	498.1	511.1	522.2	532.9	541.4	544.9
464.1	12.5°	467.8	474.0	488.8	504.5	520.8	538.7	553.1	566.3	576.8	581.5
475.0	15°	479.6	487.6	506.6	527.6	551.5	576.4	594.7	609.4	621.1	626.9
486.4	17.5°	492.3	503.1	527.0	558.7	592.9	625.6	647.1	657.8	669.9	675.5
496.9	20°	504.7	517.9	552.1	598.2	643.8	678.6	695.9	698.8	699.6	700.2
506.8	22.5°	517.5	535.2	583.6	648.1	696.9	721.0	723.5	711.1	693.8	685.8
516.4	25°	531.5	555.0	624.8	703.1	742.6	745.5	726.6	696.5	663.7	648.7
524.3	27.5°	545.1	577.8	674.2	755.6	775.6	750.3	709.5	666.8	627.3	611.4
529.8	30°	558.7	604.0	728.8	801.6	790.6	738.5	682.5	634.9	595.1	578.5
534.8	32.5°	572.5	634.5	791.7	834.7	788.0	713.6	648.9	599.1	564.0	546.5
539.1	35°	588.1	672.0	851.2	852.8	770.0	676.9	604.6	556.2	525.7	511.7
544.3	37.5°	608.5	719.6	903.7	857.4	738.7	623.2	549.6	505.5	480.4	474.0
551.9	40°	633.9	776.8	943.9	850.2	692.4	557.9	489.5	454.2	440.0	441.5
562.2	42.5°	666.8	840.9	972.1	831.6	627.9	490.5	436.7	421.1	427.9	433.6
577.6	45°	709.7	907.4	989.6	800.1	555.0	433.4	405.6	409.3	414.5	415.1
602.6	47.5°	764.5	974.8	1001.2	752.5	480.6	393.3	385.8	386.7	385.6	381.3
639.8	50°	832.9	1040.3	1011.5	689.5	417.4	368.1	358.2	355.4	341.1	327.1
689.5	52.5°	910.7	1100.5	1015.8	611.2	368.1	347.1	331.0	312.9	286.3	282.0
751.9	55°	997.3	1156.1	1004.7	515.0	326.7	320.1	295.8	274.0	271.1	267.4
834.1	57.5°	1100.7	1216.0	982.0	407.7	284.3	288.6	264.9	267.4	262.2	256.5
939.8	60°	1213.8	1278.0	942.3	309.8	240.4	249.3	256.9	256.7	255.2	250.5
1051.2	62.5°	1315.5	1318.8	864.0	237.3	201.9	218.8	239.6	239.4	238.1	235.5
1167.6	65°	1376.1	1312.6	733.4	186.8	170.2	193.6	216.1	217.7	218.0	217.7
1255.2	67.5°	1365.4	1240.3	554.1	148.7	144.0	168.1	192.8	195.1	196.7	197.1
1266.3	70°	1244.3	1081.5	361.3	118.7	120.7	145.6	170.8	173.0	174.5	176.1
1098.8	72.5°	969.9	795.2	206.8	96.0	100.3	126.3	148.9	151.6	152.4	155.5
764.7	75°	591.0	467.6	111.7	75.6	82.4	107.9	127.3	130.4	131.8	135.5
375.5	77.5°	281.0	202.5	63.7	58.9	66.3	88.2	107.5	111.0	107.1	109.2
103.6	80°	95.0	75.2	40.2	44.9	50.7	68.8	86.1	89.6	81.4	81.0
34.4	82.5°	33.2	30.5	25.5	29.9	32.8	49.2	65.1	69.6	60.6	60.4
15.5	85°	13.0	12.4	14.2	16.3	19.6	30.3	42.8	45.1	37.3	30.1
4.5	87.5°	2.7	2.9	3.5	3.7	6.0	10.5	15.5	19.0	15.0	12.8
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>
444.1
460.8
485.1
513.2
545.1
581.5
626.5
675.3
701.8
688.0
651.0
613.3
580.3
548.8
514.8
478.5
446.4
439.0
419.2
384.6
329.0
283.5
268.0
255.4
248.9
234.4
217.7
197.6
177.0
156.8
<i>136.0</i>
107.5
80.1
57.5
29.7
11.7
0.0

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