

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: P945539

Luminaire Tested: **GALN-SB1B-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3971 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

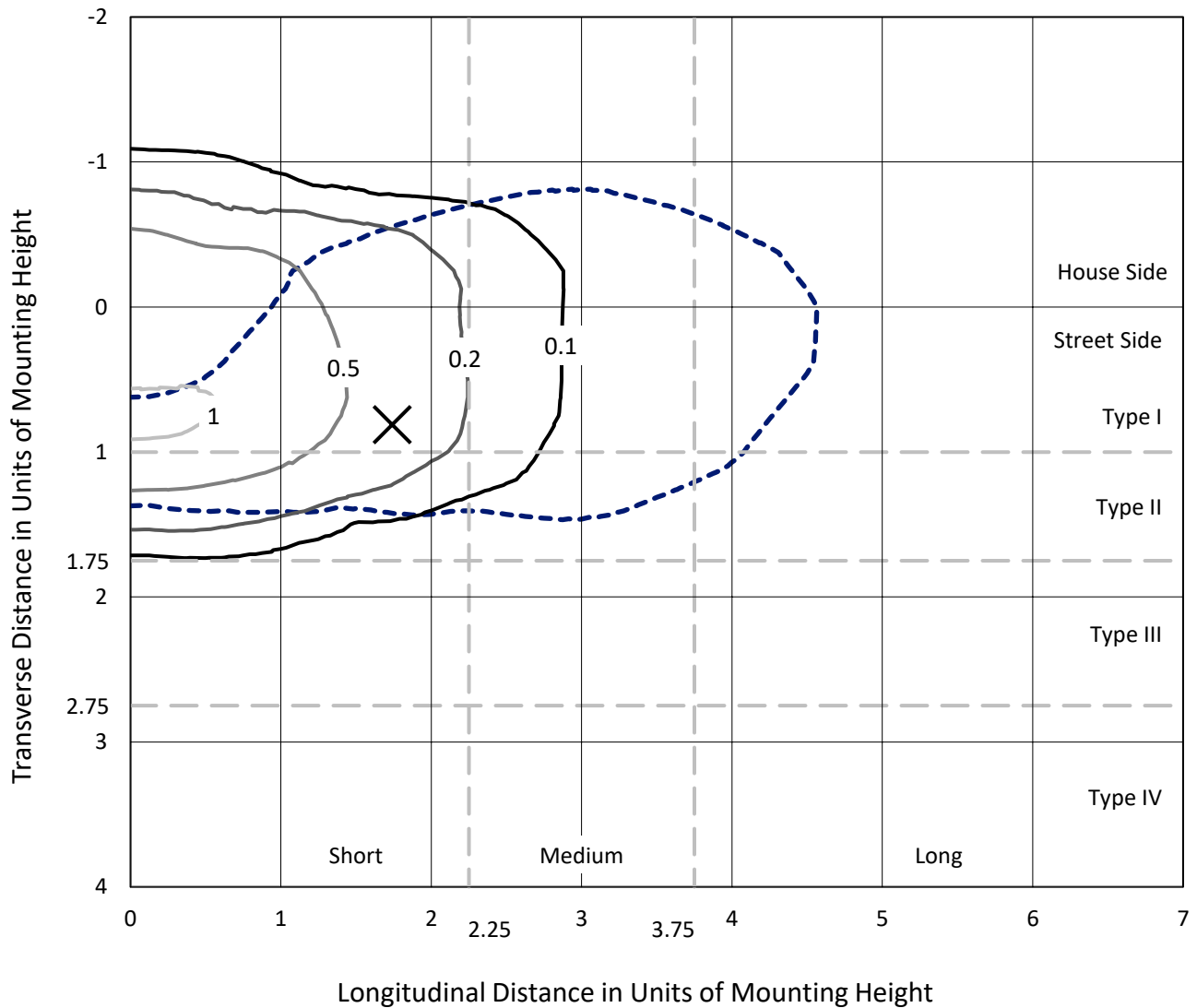
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

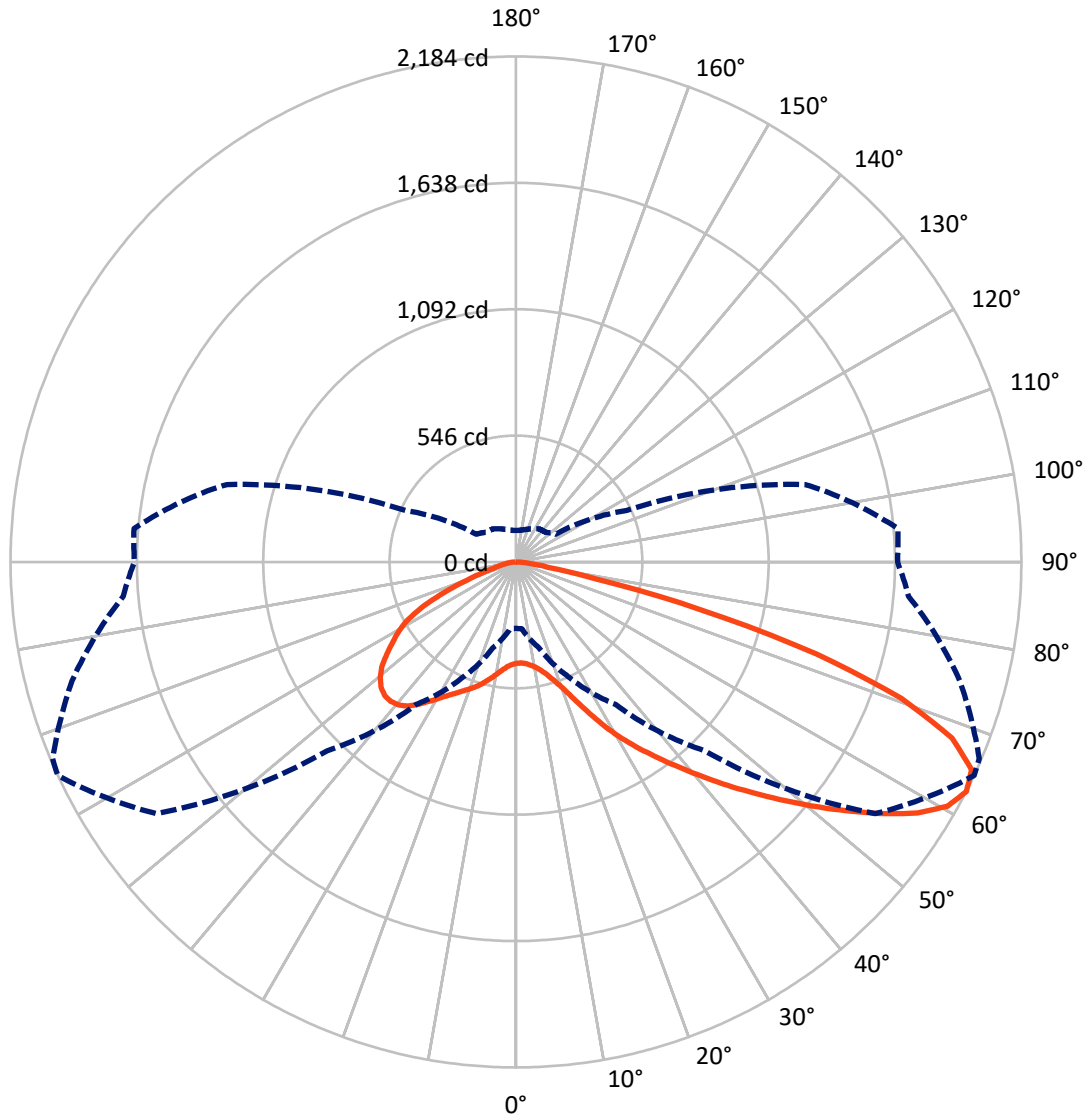
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.1	0.0	1253.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2717.9	0.0	2717.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	3971.0	0.0	3971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	147.9	3.7
20°-30°	300.0	7.6
30°-40°	519.1	13.1
40°-50°	785.6	19.8
50°-60°	921.0	23.2
60°-70°	772.2	19.4
70°-80°	426.3	10.7
80°-90°	55.4	1.4
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°	3971.0	100.0
0°-180°	3971.0	100.0

Coefficient of Utilization



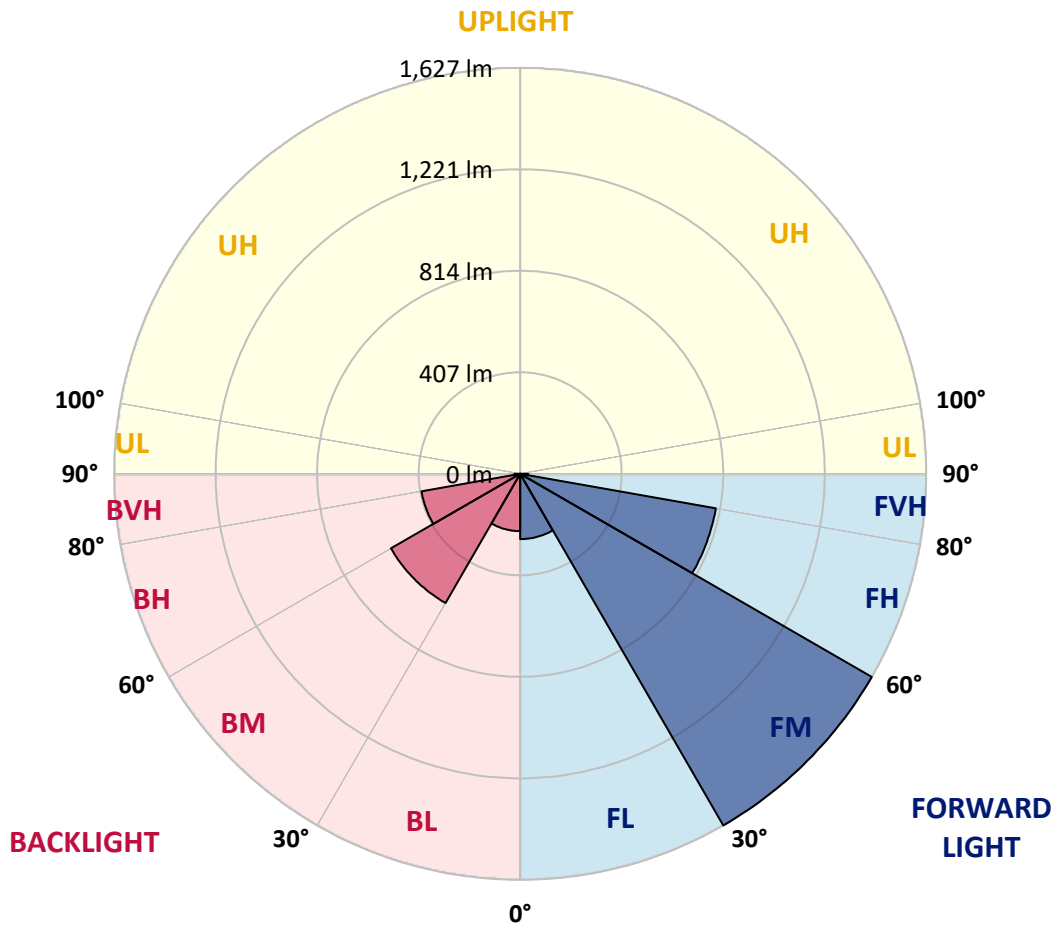
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.7	6.6			
FM (30°-60°)	1627.4	41.0			
FH (60°-80°)	796.5	20.1			G1/1800
FVH (80°-90°)	32.3	0.8			G1/100
BL (0°-30°)	229.8	5.8	B1/500		
BM (30°-60°)	598.2	15.1	B1/1000		
BH (60°-80°)	402.0	10.1	B1/500		G1/500
BVH (80°-90°)	23.1	0.6			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6
2.5°	434.7	433.5	434.5	434.5	434.9	434.7	436.1	436.6	437.2	438.4
5°	430.4	430.2	432.0	433.7	435.3	436.8	438.6	441.3	441.7	443.1
7.5°	428.9	427.7	430.6	432.6	436.6	440.1	445.0	449.5	451.4	452.0
10°	440.1	438.0	440.7	441.9	445.2	448.7	454.5	461.7	463.8	466.2
12.5°	459.0	456.7	460.7	462.5	465.6	468.7	472.6	479.6	480.6	485.2
15°	485.0	482.3	484.8	487.0	492.2	495.1	499.0	505.8	505.8	509.3
17.5°	520.2	516.7	518.6	519.4	522.7	527.0	533.6	539.6	542.7	541.4
20°	572.7	568.4	568.4	564.3	563.1	566.6	575.2	583.4	586.7	580.4
22.5°	651.6	645.5	642.0	627.9	622.4	622.8	631.5	641.5	644.2	632.9
25°	752.0	742.3	737.6	717.0	704.4	693.5	700.3	713.2	717.0	702.9
27.5°	852.3	852.9	848.4	823.7	802.9	782.9	779.4	793.0	796.9	781.0
30°	993.0	978.4	969.7	940.1	910.4	882.4	868.0	873.5	874.6	855.6
32.5°	1114.4	1110.7	1092.1	1066.2	1028.0	984.2	960.1	951.2	949.5	922.6
35°	1252.6	1250.5	1231.0	1200.1	1158.9	1097.9	1054.4	1029.1	1027.0	989.1
37.5°	1393.1	1393.1	1373.9	1340.2	1297.5	1221.3	1155.2	1115.0	1108.4	1058.9
40°	1505.2	1498.4	1501.9	1487.7	1438.8	1357.9	1267.0	1208.7	1199.9	1140.5
42.5°	1568.8	1566.6	1587.6	1603.5	1583.5	1518.8	1390.2	1310.3	1297.9	1230.4
45°	1583.1	1580.6	1618.1	1676.2	1704.2	1677.6	1524.1	1417.2	1402.2	1324.3
47.5°	1550.3	1545.4	1600.4	1692.0	1781.9	1828.6	1669.2	1533.2	1511.4	1415.8
50°	1451.8	1447.1	1530.3	1652.1	1808.0	1931.2	1826.6	1656.2	1622.8	1513.8
52.5°	1237.8	1240.0	1370.4	1537.7	1773.6	1995.1	1962.1	1785.8	1745.6	1614.2
55°	964.2	969.1	1129.4	1313.6	1636.0	1985.4	2054.6	1919.3	1879.3	1708.5
57.5°	690.4	712.2	862.4	1044.7	1371.7	1831.9	2074.8	2046.2	2007.5	1811.5
60°	447.5	451.4	605.9	789.7	1044.5	1559.2	2033.8	2142.4	2112.1	1916.6
62.5°	286.8	289.5	383.6	552.3	751.8	1153.5	1895.8	2184.2	2175.0	1986.0
65°	210.8	208.7	257.7	365.1	506.4	711.4	1627.8	2164.0	2182.4	2029.5
67.5°	175.9	173.1	197.2	252.8	373.1	404.0	1204.4	2032.8	2100.0	2024.6
70°	160.3	157.8	172.4	187.7	291.1	270.5	607.1	1767.2	1870.7	1968.3
72.5°	135.8	131.4	151.4	166.7	226.4	207.5	250.9	1357.5	1483.6	1788.0
75°	105.3	102.4	119.5	146.7	170.2	161.9	158.6	824.3	961.9	1382.8
77.5°	83.4	79.5	95.2	114.3	153.1	122.2	115.6	355.0	491.4	882.8
80°	62.8	59.3	72.3	90.4	117.6	92.1	74.8	144.8	185.2	447.3
82.5°	44.7	41.6	50.5	66.3	79.1	82.6	45.9	81.2	91.3	172.4
85°	28.6	26.8	33.8	41.6	50.3	53.2	28.0	42.4	46.6	71.1
87.5°	15.7	12.8	18.1	19.4	23.3	21.2	13.4	15.5	16.7	25.8
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°
437.6	0°	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6
438.4	2.5°	439.2	439.9	441.9	442.5	444.0	445.8	447.1	448.3	448.3	449.5
445.0	5°	445.2	446.7	451.0	453.2	457.0	460.7	462.9	465.6	467.3	468.1
455.5	7.5°	456.7	459.0	465.2	469.1	475.5	480.6	484.1	487.9	488.7	490.9
470.1	10°	472.4	475.1	482.1	489.5	497.1	503.5	506.8	509.5	510.5	510.9
488.9	12.5°	490.3	494.2	503.3	512.4	520.4	526.0	526.8	526.2	523.3	520.8
512.0	15°	512.4	515.9	526.0	535.9	543.7	544.7	539.6	536.3	532.8	532.2
537.7	17.5°	538.7	540.6	549.9	559.6	560.2	556.7	549.0	546.0	542.7	540.4
571.3	20°	569.4	568.8	575.4	579.5	575.2	564.5	553.0	547.8	544.5	541.8
612.5	22.5°	606.1	601.4	600.5	599.5	588.0	565.5	549.9	543.3	538.1	534.4
670.0	25°	659.5	641.3	628.8	621.8	595.8	560.0	540.0	525.4	515.7	509.3
740.2	27.5°	726.2	695.7	664.0	646.9	595.8	548.6	516.1	492.4	476.5	469.9
808.2	30°	789.9	757.9	711.2	677.2	594.4	530.1	477.6	444.6	426.0	419.5
866.3	32.5°	844.3	809.5	761.2	710.4	590.9	500.0	429.8	393.3	375.4	367.5
923.8	35°	894.7	857.7	811.5	746.8	581.6	455.9	377.2	349.4	329.4	316.9
982.3	37.5°	946.5	902.4	859.1	779.8	564.9	404.4	336.8	313.2	289.7	272.8
1044.5	40°	1002.7	950.0	910.0	799.4	537.5	355.4	305.5	283.9	259.0	241.0
1116.2	42.5°	1068.4	1007.0	966.6	809.5	500.0	320.6	285.1	263.9	240.4	225.8
1193.1	45°	1137.0	1069.9	1018.4	809.2	458.2	304.3	278.5	257.5	231.6	216.3
1272.0	47.5°	1208.9	1135.6	1063.1	796.1	421.9	306.6	274.8	243.7	215.1	200.3
1351.7	50°	1281.0	1207.5	1106.3	771.3	406.5	301.6	261.0	224.4	190.6	177.2
1426.5	52.5°	1352.5	1283.9	1143.6	736.1	390.8	283.3	243.3	199.2	180.5	171.2
1503.7	55°	1424.4	1359.5	1184.2	684.8	351.7	261.9	213.6	189.7	172.4	164.0
1579.4	57.5°	1496.5	1446.9	1222.7	633.5	302.4	235.5	197.4	178.2	164.4	157.2
1642.6	60°	1571.5	1546.8	1262.5	586.3	253.8	201.7	185.4	168.9	154.9	146.9
1703.4	62.5°	1648.8	1656.8	1293.6	525.6	209.1	181.1	174.7	157.8	144.2	136.6
1753.6	65°	1726.7	1762.9	1314.0	441.3	169.6	161.5	163.2	145.7	131.9	125.3
1790.5	67.5°	1785.4	1839.3	1308.2	334.0	139.1	143.0	148.7	132.9	119.9	114.8
1784.5	70°	1792.0	1830.3	1251.4	228.7	116.4	124.8	132.7	120.3	106.9	103.2
1700.5	72.5°	1704.2	1706.7	1092.9	149.4	98.5	109.6	115.8	107.5	94.6	90.9
1487.7	75°	1474.1	1411.4	802.4	98.5	82.4	94.2	99.9	94.2	81.6	82.4
1113.1	77.5°	1116.8	999.6	487.2	70.0	68.8	79.1	86.9	82.8	72.1	81.0
559.8	80°	575.4	540.8	217.4	52.3	54.4	63.2	71.5	66.1	57.1	54.4
125.1	82.5°	131.9	153.3	85.7	37.5	39.3	45.5	54.6	49.7	41.0	34.6
52.1	85°	46.1	50.5	37.9	23.5	23.1	28.4	37.1	33.2	27.8	22.3
22.0	87.5°	14.6	19.2	14.2	9.5	9.9	12.8	17.1	15.7	13.0	8.4
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>
437.6
449.5
468.5
490.1
509.9
520.8
532.2
540.6
542.0
535.7
511.8
473.2
423.4
371.5
321.0
277.3
244.5
228.7
218.8
202.3
178.0
171.2
163.2
156.0
146.3
136.4
125.1
115.0
103.4
90.6
79.5
71.3
49.7
34.2
23.5
8.9
0.0

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