

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: P939044

Luminaire Tested: **GALN-SB1B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

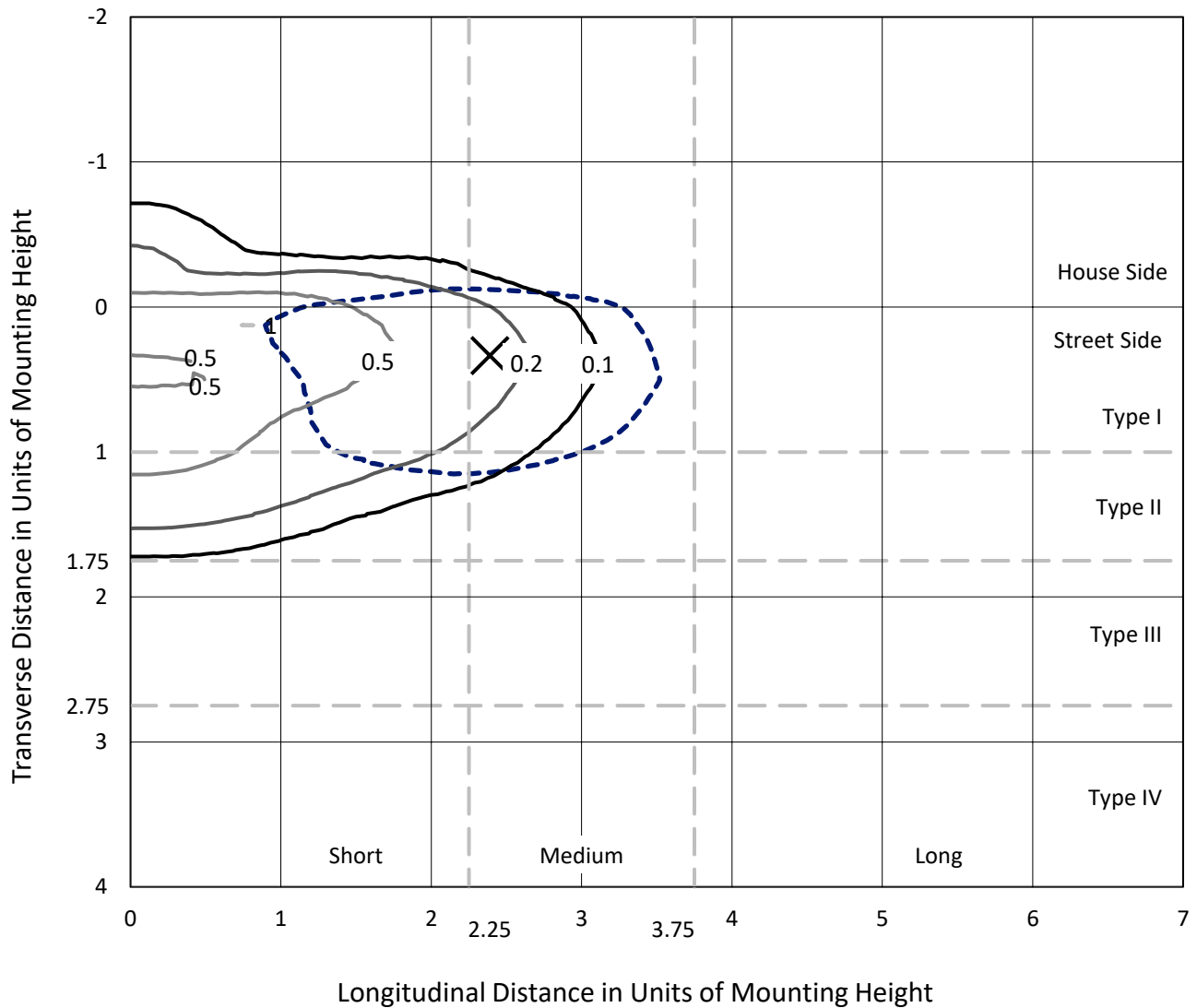
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

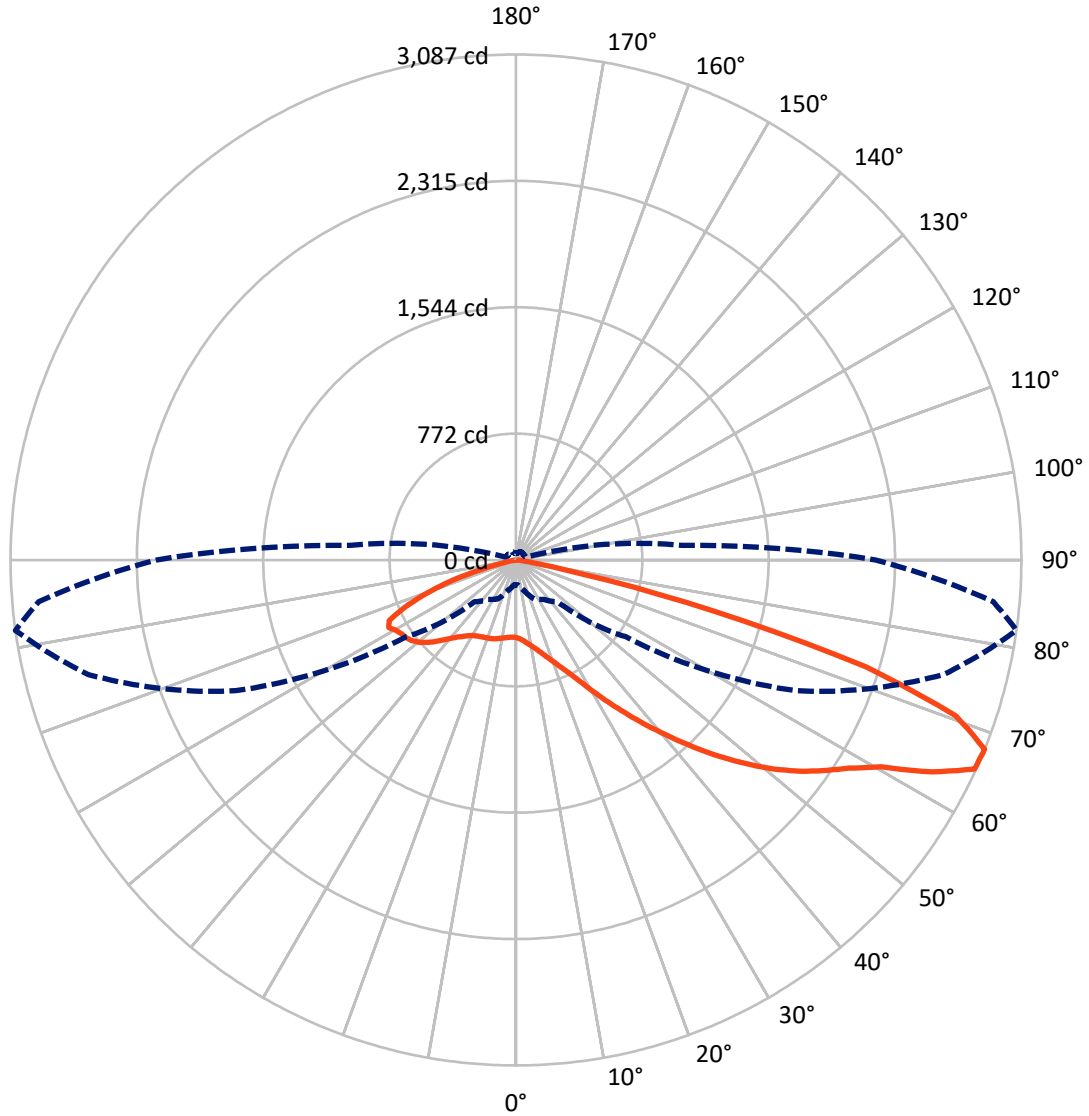
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.2	0.0	518.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2342.8	0.0	2342.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	2861.0	0.0	2861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.5
10°-20°	109.7	3.8
20°-30°	175.8	6.1
30°-40°	310.8	10.9
40°-50°	544.5	19.0
50°-60°	726.3	25.4
60°-70°	676.1	23.6
70°-80°	259.5	9.1
80°-90°	16.1	0.6
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°	2861.0	100.0
0°-180°	2861.0	100.0

Coefficient of Utilization



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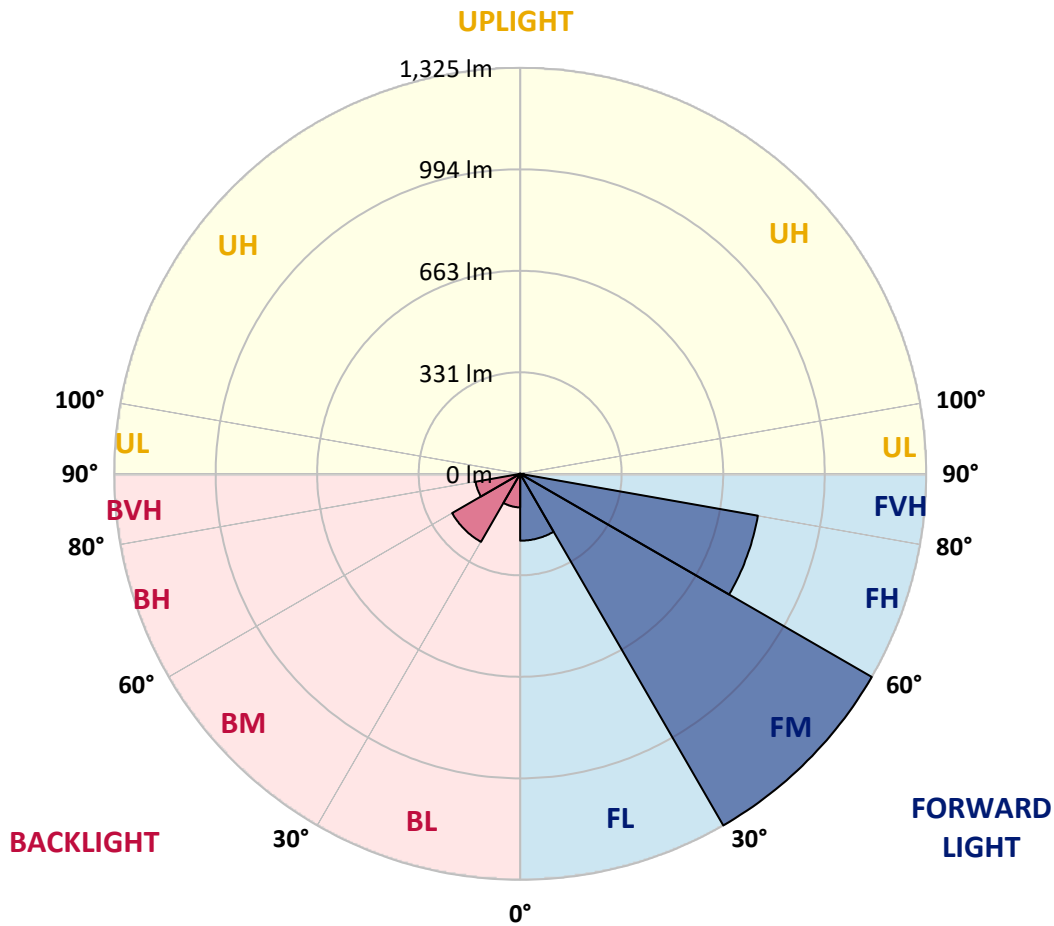
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.3	7.6			
FM (30°-60°)	1325.1	46.3			
FH (60°-80°)	787.7	27.5			G1/1800
FVH (80°-90°)	11.7	0.4			G1/100
BL (0°-30°)	109.5	3.8	B0/110		
BM (30°-60°)	256.5	9.0	B1/1000		
BH (60°-80°)	147.9	5.2	B1/500		G1/500
BVH (80°-90°)	4.4	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0
2.5°	501.0	503.8	502.2	501.4	499.9	497.9	496.2	491.1	485.7	482.2
5°	511.0	513.9	513.7	514.5	515.6	516.2	515.8	510.0	502.4	496.4
7.5°	502.4	505.7	508.4	512.5	519.7	527.3	531.0	529.8	522.0	513.7
10°	477.9	481.4	487.8	497.5	512.7	529.2	543.0	549.4	544.4	535.4
12.5°	433.0	436.5	449.0	470.1	495.6	524.2	550.6	567.7	568.9	559.9
15°	382.5	386.0	399.4	425.8	464.7	510.6	554.7	587.1	598.0	590.1
17.5°	351.2	354.3	364.4	385.6	426.2	483.4	553.3	607.7	632.6	626.4
20°	341.7	344.4	349.1	364.0	397.8	455.2	543.8	627.0	669.9	666.4
22.5°	351.8	354.3	355.7	362.3	383.5	436.7	531.9	646.8	713.1	713.5
25°	375.1	377.6	375.9	380.0	389.3	430.9	527.3	670.1	767.5	772.0
27.5°	413.4	413.6	409.7	409.5	410.9	439.6	532.1	695.0	836.1	844.5
30°	490.2	487.2	472.1	455.8	448.4	465.5	545.2	724.4	917.0	932.1
32.5°	608.7	604.2	576.6	537.6	498.5	507.3	568.9	758.0	1005.2	1032.4
35°	737.2	736.0	707.1	649.3	580.9	566.9	607.4	802.1	1101.4	1144.7
37.5°	856.7	856.1	839.6	771.4	688.2	649.9	669.2	859.8	1204.4	1267.0
40°	965.9	967.7	951.2	890.3	806.4	756.4	753.3	931.1	1318.9	1400.3
42.5°	1060.2	1062.3	1045.6	1000.5	923.2	874.2	856.5	1018.4	1430.8	1543.4
45°	1124.3	1137.0	1134.6	1098.5	1043.1	992.2	980.5	1128.0	1558.3	1695.3
47.5°	1142.4	1154.1	1172.7	1177.6	1143.8	1093.8	1107.8	1260.0	1687.2	1847.3
50°	1097.7	1108.6	1147.1	1198.4	1221.9	1206.5	1231.6	1401.5	1819.3	1998.9
52.5°	1009.5	1020.7	1069.3	1150.4	1246.2	1294.8	1355.8	1541.0	1947.2	2142.4
55°	882.0	893.8	956.2	1048.1	1199.9	1331.3	1459.4	1680.2	2064.4	2271.6
57.5°	708.6	717.2	782.1	910.7	1083.3	1295.0	1535.8	1832.2	2174.8	2398.5
60°	461.8	469.4	544.8	688.2	890.1	1173.9	1551.1	2001.8	2321.4	2563.5
62.5°	307.1	312.3	357.0	462.2	626.8	941.4	1461.9	2137.1	2536.5	2850.6
65°	210.7	215.9	260.6	333.9	405.0	622.7	1205.4	2119.2	2731.4	3078.6
67.5°	150.4	154.7	192.6	261.8	293.1	361.7	817.1	1890.1	2703.3	3087.3
70°	107.7	110.2	141.5	203.9	233.0	217.3	454.4	1445.6	2367.0	2850.8
72.5°	75.4	76.2	98.3	155.3	187.7	158.6	216.3	963.8	1790.2	2237.6
75°	51.1	52.1	66.1	113.9	150.6	121.1	114.5	516.8	1050.9	1238.6
77.5°	31.3	31.7	42.6	77.9	112.7	92.3	73.7	219.0	406.6	399.2
80°	17.7	17.7	27.2	48.4	76.8	59.5	51.7	93.1	128.7	113.1
82.5°	9.9	10.1	19.8	30.1	50.9	35.2	28.4	43.1	55.6	49.2
85°	4.1	4.5	12.2	14.2	24.3	17.5	11.5	18.1	20.6	18.3
87.5°	0.4	0.6	3.7	2.7	2.9	3.5	1.6	3.5	2.9	2.9
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°
474.0	0°	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0
481.0	2.5°	477.1	474.0	466.1	457.1	445.1	439.4	431.5	426.2	421.7	422.1
492.9	5°	486.3	478.5	461.0	439.2	412.0	392.6	372.0	357.8	346.3	343.8
509.4	7.5°	499.1	486.7	456.1	416.7	370.8	336.0	304.9	284.9	270.7	266.1
529.4	10°	515.6	497.7	449.7	388.5	322.4	278.1	244.7	229.1	219.4	216.1
552.9	12.5°	534.7	510.2	441.2	354.1	272.5	229.9	208.7	200.8	197.7	196.7
581.7	15°	558.8	525.9	428.4	313.3	230.3	200.4	191.4	190.3	190.7	190.3
616.3	17.5°	587.5	543.0	407.6	271.3	201.9	185.4	182.1	182.9	183.9	183.7
655.0	20°	618.8	559.9	381.1	234.0	182.5	174.7	172.8	173.6	174.5	174.1
699.7	22.5°	654.4	578.0	351.6	205.0	169.5	164.8	162.7	162.9	162.9	162.1
756.4	25°	697.1	598.0	320.7	184.4	159.6	155.9	153.5	152.6	151.4	148.9
825.2	27.5°	747.9	619.2	291.1	169.9	151.8	148.3	145.4	143.4	140.3	136.2
907.8	30°	805.2	644.9	265.9	160.9	145.6	142.1	138.8	135.7	131.2	126.1
1002.7	32.5°	872.6	672.5	247.6	154.9	140.1	136.4	132.4	128.7	123.8	118.6
1109.4	35°	952.9	705.9	236.9	150.8	135.7	130.8	126.5	122.4	118.6	114.1
1225.4	37.5°	1040.0	741.3	233.6	148.7	132.9	125.2	120.3	117.4	117.0	114.3
1350.8	40°	1135.4	783.4	236.1	147.5	129.8	119.9	114.5	113.9	114.9	110.2
1484.9	42.5°	1236.3	833.2	240.2	146.0	125.4	114.5	109.4	109.4	108.6	102.0
1626.7	45°	1345.5	890.7	244.3	142.5	120.3	109.2	105.3	103.8	100.3	93.9
1769.2	47.5°	1455.5	949.2	247.4	136.2	114.1	104.6	101.1	97.8	92.7	86.9
1909.1	50°	1559.9	1001.7	244.1	126.7	107.1	100.3	96.6	92.1	86.5	82.6
2041.5	52.5°	1653.2	1047.2	230.1	115.6	99.7	95.8	92.5	87.7	83.2	79.1
2161.0	55°	1734.4	1084.1	205.4	105.1	93.1	91.9	88.6	82.6	76.4	72.9
2279.4	57.5°	1812.3	1112.1	174.5	96.4	87.1	87.5	82.6	77.2	71.5	67.8
2439.1	60°	1915.9	1149.6	143.2	88.4	80.7	82.0	76.6	72.7	65.5	60.8
2712.8	62.5°	2081.5	1207.9	113.7	78.5	73.3	73.7	71.5	66.7	58.1	52.5
2915.7	65°	2212.9	1186.5	89.6	67.8	64.9	65.5	65.5	60.4	51.1	44.7
2926.6	67.5°	2198.1	1015.9	71.5	57.3	56.9	57.3	58.7	54.4	45.3	40.2
2703.8	70°	2024.8	808.1	57.3	47.6	49.4	48.4	52.5	49.6	40.8	35.6
2096.1	72.5°	1652.2	582.1	43.7	39.3	37.9	39.5	47.4	44.7	34.0	28.2
1110.3	75°	965.5	310.6	32.5	31.1	27.4	33.0	42.0	38.1	26.0	20.8
340.3	77.5°	314.3	108.3	23.9	22.9	20.4	26.6	35.8	32.1	21.2	16.5
99.7	80°	84.2	32.8	16.3	15.0	13.2	19.8	28.4	25.5	15.2	10.7
42.8	82.5°	33.8	13.8	9.5	8.4	7.2	13.6	22.5	20.6	11.3	6.8
13.4	85°	10.9	4.5	3.5	2.7	3.3	8.4	13.4	14.0	8.0	3.5
2.1	87.5°	1.4	0.6	0.6	0.8	0.6	1.4	4.1	3.9	2.3	0.4
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>
474.0
417.9
338.2
261.6
213.6
196.1
190.1
183.3
173.9
161.7
148.5
135.7
125.7
118.9
113.7
114.1
110.4
102.0
93.7
86.7
82.0
78.7
72.5
67.4
60.1
52.1
44.1
39.3
35.0
27.6
20.2
15.9
10.5
6.8
2.7
0.0
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