

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: P939034

Luminaire Tested: **GALN-SB1B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939034
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 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: 2981 lumens
Efficiency: N/A
Efficacy: 74.9 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

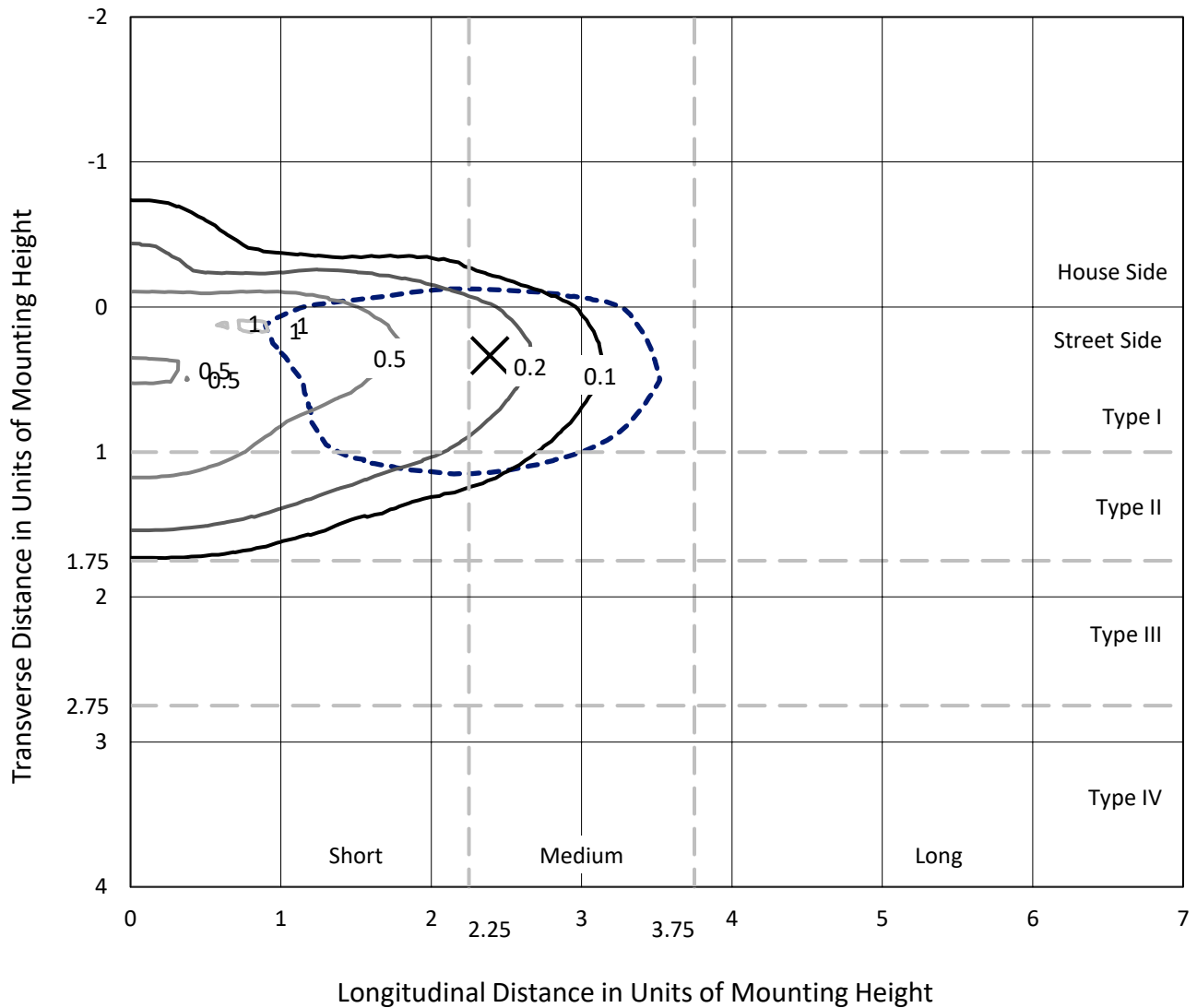
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

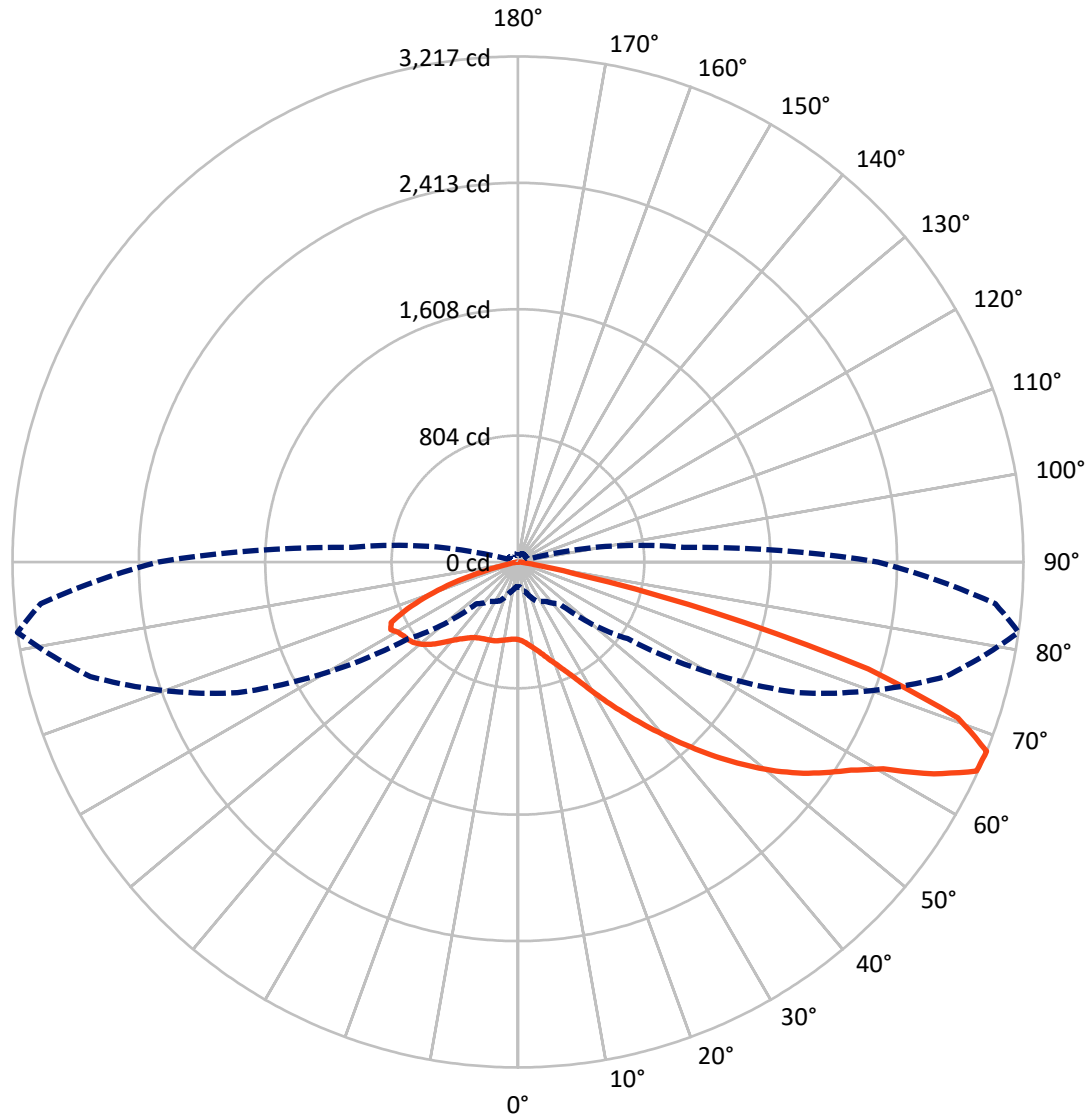
× Max cd
 - - - 1/2 Max cd



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	540.0	0.0	540.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2441.0	0.0	2441.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	2981.0	0.0	2981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.5
10°-20°	114.3	3.8
20°-30°	183.1	6.1
30°-40°	323.8	10.9
40°-50°	567.4	19.0
50°-60°	756.7	25.4
60°-70°	704.5	23.6
70°-80°	270.4	9.1
80°-90°	16.8	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°	2981.0	100.0
0°-180°	2981.0	100.0

Coefficient of Utilization



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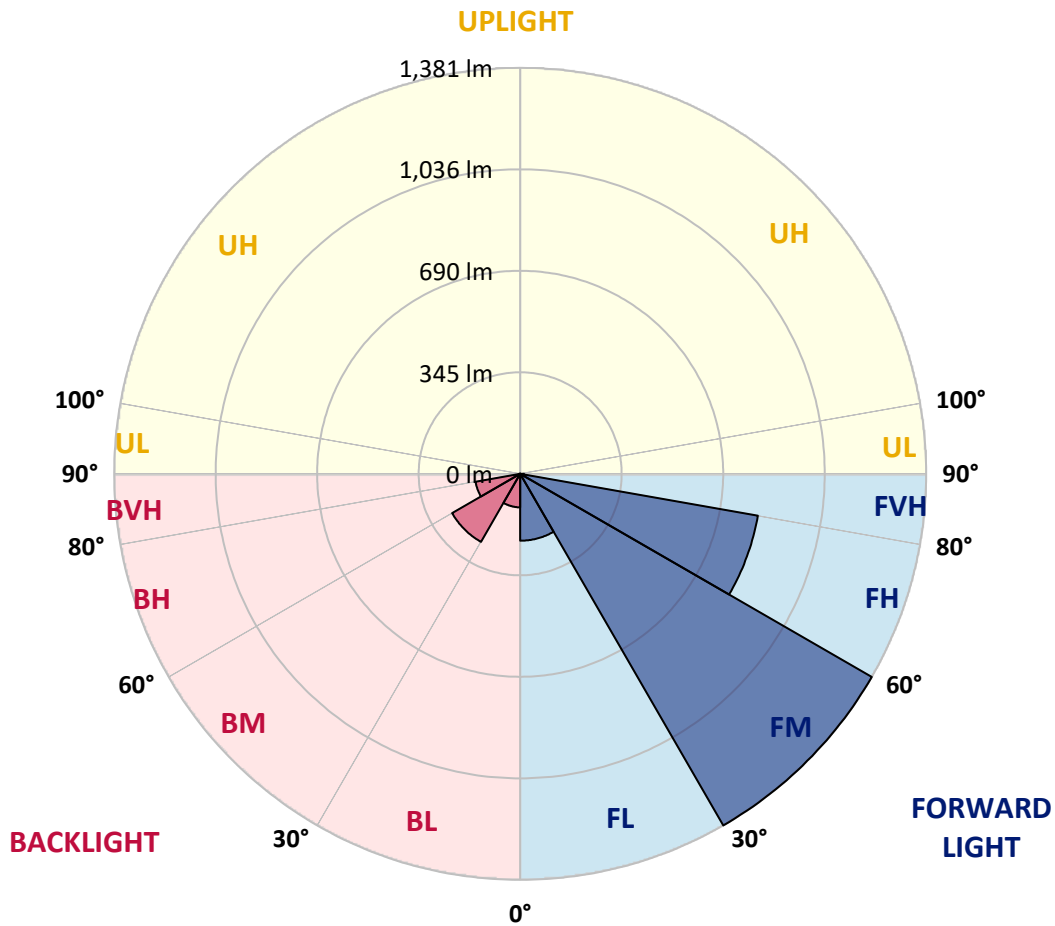
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.4	7.6			
FM (30°-60°)	1380.7	46.3			
FH (60°-80°)	820.7	27.5			G1/1800
FVH (80°-90°)	12.2	0.4			G1/100
BL (0°-30°)	114.0	3.8	B1/500		
BM (30°-60°)	267.2	9.0	B1/1000		
BH (60°-80°)	154.1	5.2	B1/500		G1/500
BVH (80°-90°)	4.6	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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	522.0	525.0	523.3	522.4	520.9	518.7	517.0	511.7	506.1	502.4
5°	532.5	535.5	535.3	536.1	537.2	537.8	537.4	531.4	523.5	517.2
7.5°	523.5	526.9	529.7	534.0	541.5	549.4	553.3	552.0	543.9	535.3
10°	497.9	501.6	508.2	518.3	534.2	551.4	565.8	572.4	567.3	557.8
12.5°	451.1	454.8	467.9	489.8	516.4	546.2	573.7	591.5	592.8	583.3
15°	398.6	402.2	416.2	443.6	484.2	532.1	578.0	611.7	623.1	614.9
17.5°	365.9	369.2	379.7	401.8	444.1	503.7	576.5	633.1	659.1	652.7
20°	356.1	358.9	363.8	379.2	414.4	474.3	566.6	653.3	698.0	694.3
22.5°	366.6	369.2	370.7	377.5	399.6	455.0	554.2	673.9	743.0	743.5
25°	390.8	393.4	391.7	396.0	405.6	449.0	549.4	698.2	799.7	804.4
27.5°	430.8	431.0	426.9	426.7	428.2	458.0	554.4	724.1	871.2	880.0
30°	510.8	507.6	491.9	475.0	467.2	485.1	568.1	754.8	955.5	971.2
32.5°	634.2	629.5	600.7	560.2	519.4	528.6	592.8	789.8	1047.4	1075.7
35°	768.1	766.9	736.8	676.5	605.2	590.6	632.9	835.7	1147.6	1192.7
37.5°	892.6	892.0	874.8	803.8	717.1	677.1	697.3	895.8	1254.9	1320.2
40°	1006.4	1008.3	991.1	927.6	840.3	788.1	784.9	970.1	1374.2	1459.0
42.5°	1104.7	1106.8	1089.4	1042.4	961.9	910.9	892.4	1061.1	1490.8	1608.2
45°	1171.4	1184.7	1182.2	1144.6	1086.9	1033.8	1021.6	1175.3	1623.6	1766.4
47.5°	1190.3	1202.5	1221.9	1227.0	1191.8	1139.7	1154.3	1312.9	1758.0	1924.8
50°	1143.7	1155.1	1195.2	1248.7	1273.2	1257.1	1283.2	1460.3	1895.6	2082.7
52.5°	1051.9	1063.5	1114.1	1198.7	1298.5	1349.1	1412.7	1605.6	2028.8	2232.3
55°	919.0	931.3	996.3	1092.0	1250.2	1387.1	1520.6	1750.7	2151.0	2366.9
57.5°	738.3	747.3	814.9	948.9	1128.7	1349.3	1600.2	1909.1	2266.0	2499.1
60°	481.2	489.1	567.7	717.1	927.4	1223.1	1616.1	2085.7	2418.8	2671.0
62.5°	320.0	325.4	371.9	481.6	653.1	980.8	1523.2	2226.7	2642.9	2970.2
65°	219.6	224.9	271.5	347.9	422.0	648.8	1256.0	2208.1	2845.9	3207.8
67.5°	156.7	161.2	200.7	272.8	305.4	376.9	851.4	1969.4	2816.7	3216.8
70°	112.2	114.8	147.4	212.5	242.7	226.4	473.5	1506.2	2466.2	2970.4
72.5°	78.6	79.4	102.4	161.8	195.5	165.3	225.4	1004.2	1865.3	2331.5
75°	53.2	54.3	68.9	118.7	156.9	126.2	119.3	538.5	1095.0	1290.5
77.5°	32.6	33.1	44.4	81.1	117.4	96.2	76.8	228.1	423.7	415.9
80°	18.5	18.5	28.3	50.4	80.1	62.0	53.9	97.0	134.1	117.8
82.5°	10.3	10.5	20.6	31.3	53.0	36.7	29.6	44.9	57.9	51.3
85°	4.3	4.7	12.7	14.8	25.3	18.2	12.0	18.9	21.5	19.1
87.5°	0.4	0.6	3.9	2.8	3.0	3.6	1.7	3.6	3.0	3.0
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°
493.9	0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
501.1	2.5°	497.1	493.9	485.7	476.3	463.8	457.8	449.6	444.1	439.3	439.8
513.6	5°	506.7	498.6	480.3	457.6	429.2	409.1	387.6	372.8	360.8	358.2
530.8	7.5°	520.0	507.2	475.2	434.2	386.3	350.1	317.6	296.8	282.0	277.3
551.6	10°	537.2	518.5	468.5	404.8	335.9	289.7	255.0	238.7	228.6	225.1
576.1	12.5°	557.2	531.6	459.7	368.9	283.9	239.5	217.4	209.3	206.0	205.0
606.1	15°	582.3	547.9	446.4	326.4	240.0	208.8	199.4	198.3	198.7	198.3
642.2	17.5°	612.1	565.8	424.7	282.7	210.3	193.2	189.7	190.6	191.7	191.4
682.5	20°	644.7	583.3	397.1	243.8	190.2	182.0	180.1	180.9	181.8	181.4
729.1	22.5°	681.9	602.2	366.4	213.6	176.6	171.7	169.6	169.8	169.8	168.9
788.1	25°	726.3	623.1	334.2	192.1	166.3	162.5	159.9	159.0	157.7	155.2
859.8	27.5°	779.3	645.2	303.3	177.1	158.2	154.5	151.5	149.4	146.2	141.9
945.8	30°	839.0	672.0	277.1	167.6	151.7	148.1	144.7	141.4	136.7	131.4
1044.8	32.5°	909.1	700.7	258.0	161.4	145.9	142.1	138.0	134.1	129.0	123.6
1156.0	35°	992.9	735.5	246.8	157.1	141.4	136.3	131.8	127.5	123.6	118.9
1276.8	37.5°	1083.6	772.4	243.4	155.0	138.4	130.5	125.3	122.3	121.9	119.1
1407.5	40°	1183.0	816.2	246.0	153.7	135.2	124.9	119.3	118.7	119.8	114.8
1547.2	42.5°	1288.2	868.2	250.3	152.2	130.7	119.3	114.0	114.0	113.1	106.2
1694.9	45°	1401.9	928.0	254.5	148.5	125.3	113.8	109.7	108.2	104.5	97.9
1843.4	47.5°	1516.5	989.0	257.8	141.9	118.9	109.0	105.4	101.9	96.6	90.6
1989.1	50°	1625.4	1043.7	254.3	132.0	111.6	104.5	100.7	95.9	90.1	86.1
2127.1	52.5°	1722.6	1091.2	239.7	120.4	103.9	99.8	96.4	91.4	86.7	82.4
2251.6	55°	1807.1	1129.6	214.0	109.5	97.0	95.7	92.3	86.1	79.6	76.0
2375.0	57.5°	1888.3	1158.8	181.8	100.4	90.8	91.2	86.1	80.5	74.5	70.6
2541.4	60°	1996.2	1197.8	149.2	92.1	84.1	85.4	79.8	75.8	68.3	63.3
2826.6	62.5°	2168.8	1258.6	118.5	81.8	76.4	76.8	74.5	69.5	60.5	54.7
3038.0	65°	2305.7	1236.2	93.4	70.6	67.6	68.3	68.3	62.9	53.2	46.6
3049.4	67.5°	2290.3	1058.5	74.5	59.7	59.2	59.7	61.2	56.7	47.2	41.9
2817.2	70°	2109.8	842.0	59.7	49.6	51.5	50.4	54.7	51.7	42.5	37.1
2184.0	72.5°	1721.5	606.5	45.5	41.0	39.5	41.2	49.4	46.6	35.4	29.4
1156.8	75°	1005.9	323.7	33.9	32.4	28.5	34.3	43.8	39.7	27.0	21.7
354.6	77.5°	327.5	112.9	24.9	23.8	21.2	27.7	37.3	33.5	22.1	17.2
103.9	80°	87.8	34.1	17.0	15.7	13.7	20.6	29.6	26.6	15.9	11.2
44.6	82.5°	35.2	14.4	9.9	8.8	7.5	14.2	23.4	21.5	11.8	7.1
14.0	85°	11.4	4.7	3.6	2.8	3.4	8.8	14.0	14.6	8.4	3.6
2.1	87.5°	1.5	0.6	0.6	0.9	0.6	1.5	4.3	4.1	2.4	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>
493.9
435.5
352.4
272.6
222.6
204.3
198.1
191.0
181.1
168.5
154.7
141.4
130.9
123.8
118.5
118.9
115.0
106.2
97.7
90.4
85.4
82.0
75.5
70.2
62.7
54.3
45.9
41.0
36.5
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