

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: P938794

Luminaire Tested: **GALN-SB1A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938794
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-SB1A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944 lumens
Efficiency: N/A
Efficacy: 95.3 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

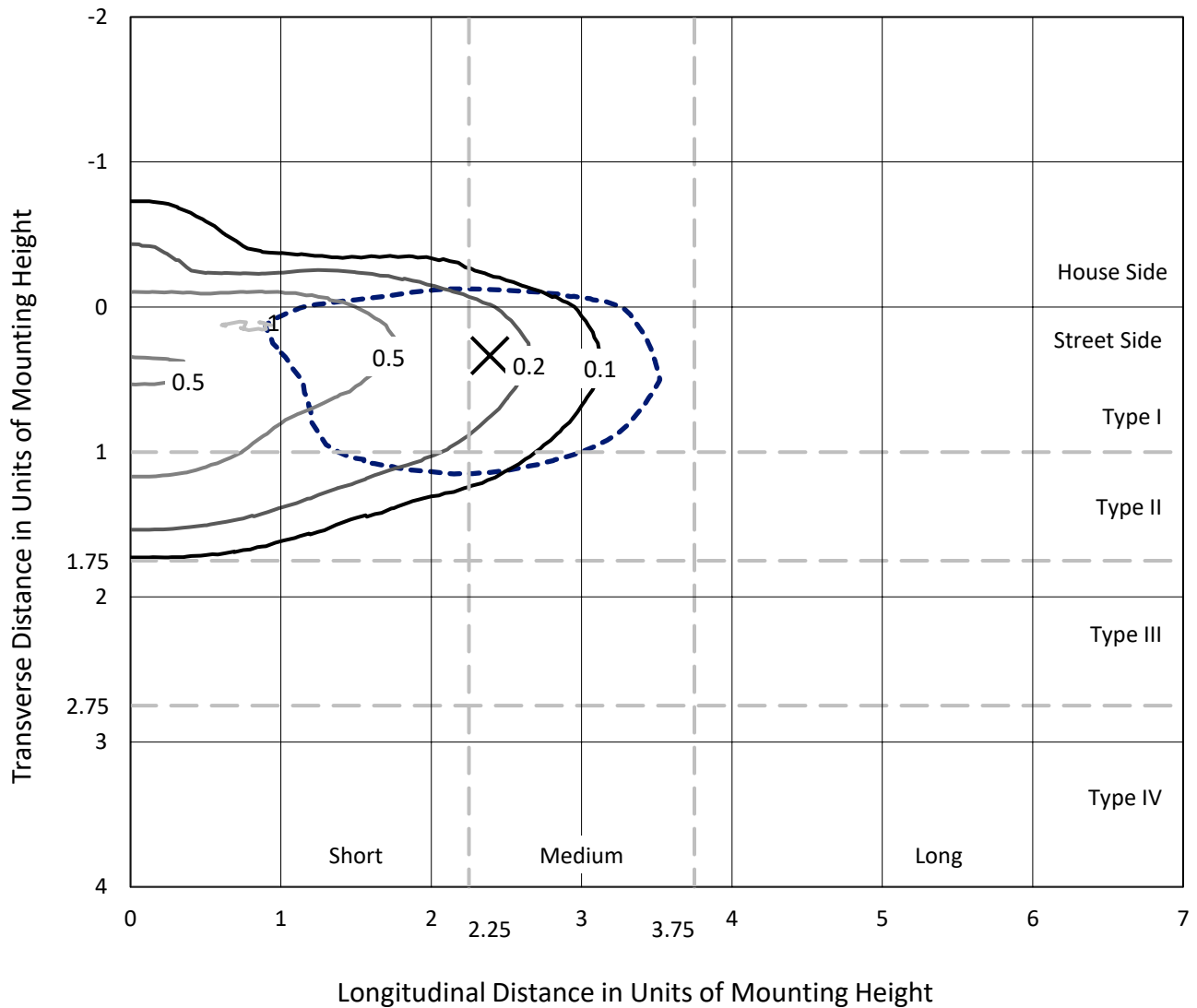
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

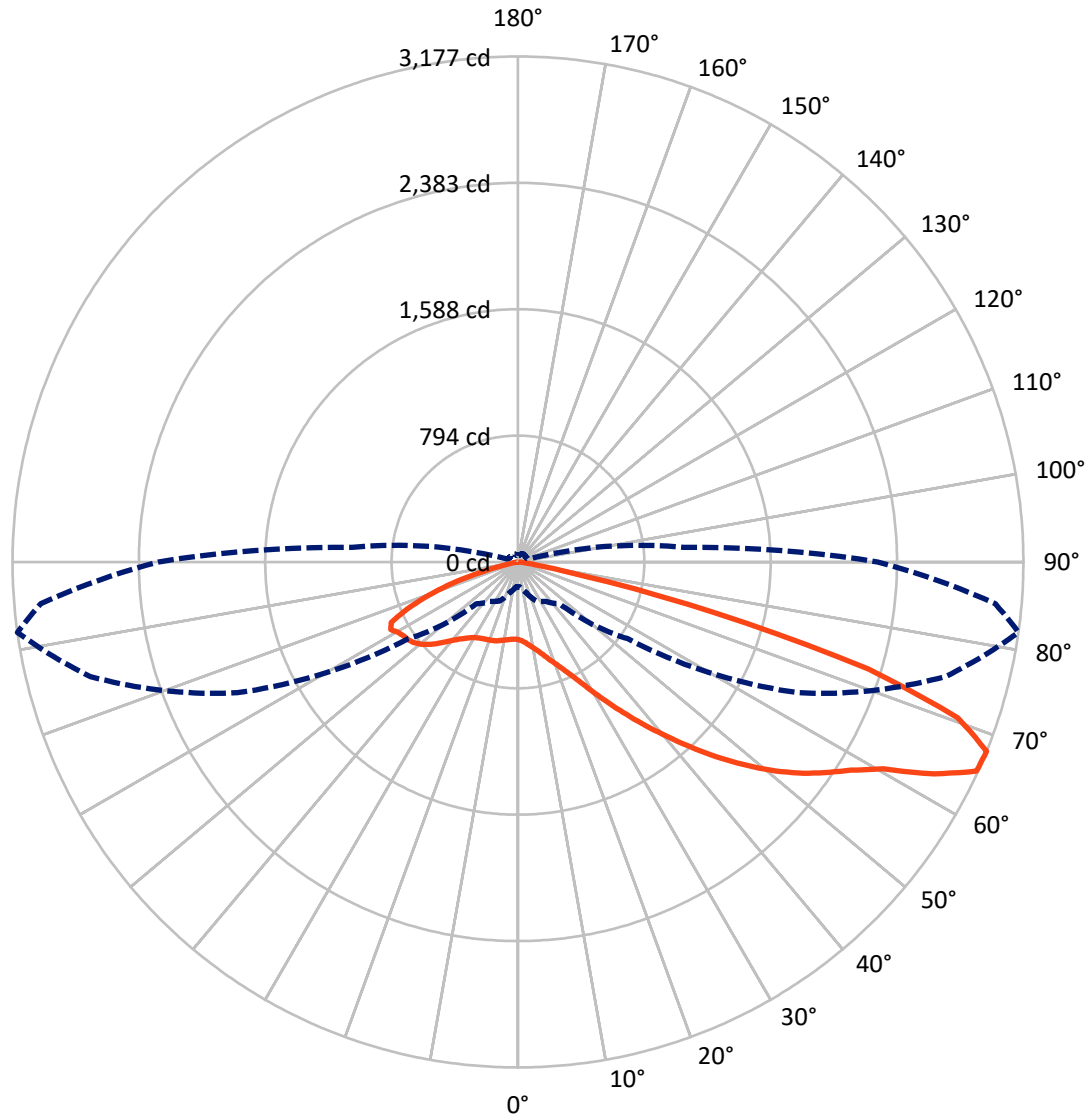
✕ Max cd
 - - - 1/2 Max cd



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	533.3	0.0	533.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2410.7	0.0	2410.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	2944.0	0.0	2944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.5
10°-20°	112.9	3.8
20°-30°	180.9	6.1
30°-40°	319.8	10.9
40°-50°	560.3	19.0
50°-60°	747.3	25.4
60°-70°	695.7	23.6
70°-80°	267.0	9.1
80°-90°	16.6	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°	2944.0	100.0
0°-180°	2944.0	100.0

Coefficient of Utilization



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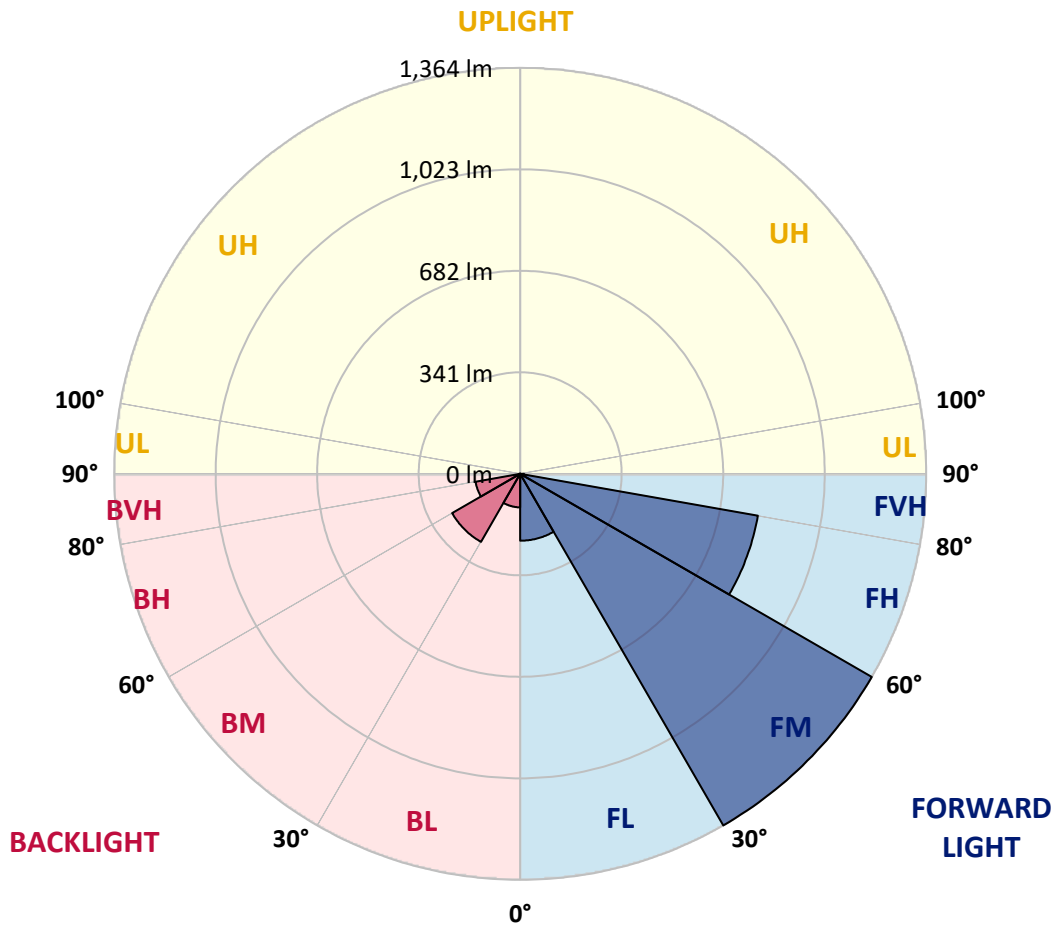
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.6	7.6			
FM (30°-60°)	1363.5	46.3			
FH (60°-80°)	810.5	27.5			G1/1800
FVH (80°-90°)	12.1	0.4			G1/100
BL (0°-30°)	112.6	3.8	B1/500		
BM (30°-60°)	263.9	9.0	B1/1000		
BH (60°-80°)	152.2	5.2	B1/500		G1/500
BVH (80°-90°)	4.5	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°	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7
2.5°	515.5	518.5	516.8	515.9	514.4	512.3	510.6	505.3	499.8	496.2
5°	525.9	528.8	528.6	529.5	530.5	531.2	530.7	524.8	517.0	510.8
7.5°	517.0	520.4	523.1	527.4	534.8	542.6	546.4	545.2	537.1	528.6
10°	491.7	495.4	501.9	511.9	527.6	544.5	558.7	565.3	560.2	550.9
12.5°	445.5	449.1	462.1	483.7	510.0	539.4	566.6	584.2	585.4	576.1
15°	393.6	397.2	411.0	438.1	478.2	525.5	570.8	604.1	615.3	607.3
17.5°	361.4	364.6	375.0	396.8	438.5	497.5	569.3	625.3	650.9	644.6
20°	351.6	354.4	359.3	374.5	409.3	468.4	559.6	645.2	689.3	685.7
22.5°	362.0	364.6	366.1	372.8	394.7	449.4	547.3	665.6	733.8	734.2
25°	386.0	388.5	386.8	391.1	400.6	443.4	542.6	689.5	789.8	794.4
27.5°	425.4	425.6	421.6	421.4	422.9	452.3	547.5	715.2	860.3	869.0
30°	504.5	501.3	485.8	469.1	461.4	479.0	561.1	745.5	943.6	959.1
32.5°	626.3	621.7	593.3	553.2	512.9	522.1	585.4	780.0	1034.4	1062.3
35°	758.6	757.3	727.7	668.1	597.7	583.3	625.1	825.4	1133.4	1177.9
37.5°	881.5	880.9	864.0	793.8	708.2	668.7	688.7	884.7	1239.3	1303.8
40°	993.9	995.8	978.8	916.1	829.8	778.3	775.1	958.1	1357.2	1440.9
42.5°	1091.0	1093.1	1075.9	1029.5	950.0	899.6	881.3	1047.9	1472.3	1588.2
45°	1156.9	1170.0	1167.5	1130.4	1073.4	1021.0	1008.9	1160.7	1603.5	1744.4
47.5°	1175.5	1187.6	1206.7	1211.8	1177.0	1125.5	1139.9	1296.6	1736.2	1900.9
50°	1129.5	1140.8	1180.4	1233.2	1257.3	1241.5	1267.3	1442.2	1872.0	2056.9
52.5°	1038.8	1050.3	1100.3	1183.8	1282.4	1332.4	1395.1	1585.7	2003.7	2204.6
55°	907.6	919.7	983.9	1078.5	1234.7	1369.9	1501.7	1729.0	2124.3	2337.5
57.5°	729.1	738.0	804.8	937.1	1114.7	1332.6	1580.4	1885.4	2237.9	2468.1
60°	475.2	483.1	560.6	708.2	915.9	1208.0	1596.1	2059.8	2388.8	2637.8
62.5°	316.0	321.3	367.3	475.6	645.0	968.7	1504.3	2199.1	2610.1	2933.3
65°	216.8	222.1	268.1	343.6	416.7	640.8	1240.4	2180.6	2810.6	3168.0
67.5°	154.7	159.2	198.2	269.4	301.6	372.2	840.8	1944.9	2781.8	3176.9
70°	110.9	113.4	145.6	209.8	239.7	223.6	467.6	1487.5	2435.6	2933.5
72.5°	77.6	78.4	101.1	159.8	193.1	163.2	222.6	991.8	1842.1	2302.5
75°	52.6	53.6	68.0	117.2	154.9	124.6	117.9	531.8	1081.4	1274.5
77.5°	32.2	32.6	43.9	80.1	115.9	95.0	75.9	225.3	418.4	410.8
80°	18.2	18.2	28.0	49.8	79.1	61.3	53.2	95.8	132.5	116.4
82.5°	10.2	10.4	20.3	30.9	52.4	36.2	29.3	44.3	57.2	50.7
85°	4.2	4.7	12.5	14.6	25.0	18.0	11.9	18.7	21.2	18.9
87.5°	0.4	0.6	3.8	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°
487.7	0°	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7
494.9	2.5°	490.9	487.7	479.7	470.3	458.0	452.1	444.1	438.5	433.9	434.3
507.2	5°	500.4	492.4	474.4	451.9	423.9	404.0	382.8	368.2	356.3	353.8
524.2	7.5°	513.6	500.9	469.3	428.8	381.5	345.7	313.7	293.1	278.5	273.9
544.7	10°	530.5	512.1	462.7	399.8	331.7	286.1	251.8	235.7	225.7	222.3
568.9	12.5°	550.2	525.0	454.0	364.4	280.4	236.5	214.7	206.7	203.5	202.4
598.6	15°	575.0	541.1	440.9	322.4	237.0	206.2	196.9	195.9	196.3	195.9
634.2	17.5°	604.5	558.7	419.5	279.2	207.7	190.8	187.4	188.2	189.3	189.1
674.0	20°	636.7	576.1	392.1	240.8	187.8	179.7	177.8	178.7	179.5	179.1
720.0	22.5°	673.4	594.8	361.8	210.9	174.4	169.6	167.4	167.7	167.7	166.8
778.3	25°	717.3	615.3	330.0	189.7	164.3	160.5	157.9	157.1	155.8	153.2
849.1	27.5°	769.6	637.2	299.5	174.9	156.2	152.6	149.6	147.5	144.3	140.1
934.1	30°	828.6	663.6	273.6	165.5	149.9	146.3	142.9	139.7	135.0	129.7
1031.8	32.5°	897.9	692.1	254.8	159.4	144.1	140.3	136.3	132.5	127.4	122.1
1141.6	35°	980.5	726.4	243.8	155.2	139.7	134.6	130.1	125.9	122.1	117.4
1261.0	37.5°	1070.2	762.8	240.4	153.0	136.7	128.9	123.8	120.8	120.4	117.6
1390.0	40°	1168.3	806.1	242.9	151.8	133.5	123.4	117.9	117.2	118.3	113.4
1528.0	42.5°	1272.2	857.4	247.1	150.3	129.1	117.9	112.6	112.6	111.7	104.9
1673.9	45°	1384.5	916.5	251.4	146.7	123.8	112.3	108.3	106.8	103.2	96.7
1820.5	47.5°	1497.7	976.7	254.6	140.1	117.4	107.7	104.1	100.7	95.4	89.4
1964.5	50°	1605.2	1030.8	251.2	130.4	110.2	103.2	99.4	94.7	89.0	85.0
2100.7	52.5°	1701.2	1077.6	236.8	118.9	102.6	98.6	95.2	90.3	85.6	81.4
2223.7	55°	1784.7	1115.5	211.3	108.1	95.8	94.5	91.1	85.0	78.6	75.0
2345.6	57.5°	1864.8	1144.4	179.5	99.2	89.7	90.1	85.0	79.5	73.6	69.7
2509.8	60°	1971.4	1183.0	147.3	90.9	83.1	84.4	78.8	74.8	67.4	62.5
2791.5	62.5°	2141.9	1242.9	117.0	80.8	75.5	75.9	73.6	68.7	59.8	54.0
3000.3	65°	2277.1	1220.9	92.2	69.7	66.8	67.4	67.4	62.1	52.6	46.0
3011.5	67.5°	2261.8	1045.4	73.6	58.9	58.5	58.9	60.4	56.0	46.6	41.3
2782.2	70°	2083.6	831.5	58.9	49.0	50.9	49.8	54.0	51.1	42.0	36.7
2156.9	72.5°	1700.1	599.0	44.9	40.5	39.0	40.7	48.8	46.0	35.0	29.0
1142.5	75°	993.5	319.6	33.5	32.0	28.2	33.9	43.2	39.2	26.7	21.4
350.2	77.5°	323.5	111.5	24.6	23.5	21.0	27.3	36.9	33.1	21.8	17.0
102.6	80°	86.7	33.7	16.7	15.5	13.6	20.3	29.3	26.3	15.7	11.0
44.1	82.5°	34.8	14.2	9.8	8.7	7.4	14.0	23.1	21.2	11.7	7.0
13.8	85°	11.2	4.7	3.6	2.8	3.4	8.7	13.8	14.4	8.3	3.6
2.1	87.5°	1.5	0.6	0.6	0.8	0.6	1.5	4.2	4.0	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>
487.7
430.1
348.0
269.2
219.8
201.8
195.6
188.6
178.9
166.4
152.8
139.7
129.3
122.3
117.0
117.4
113.6
104.9
96.4
89.2
84.4
81.0
74.6
69.3
61.9
53.6
45.4
40.5
36.0
28.4
20.8
16.3
10.8
7.0
2.8
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