

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: P938964

Luminaire Tested: **GALN-SB1B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938964
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-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 3696 lumens
Efficiency: N/A
Efficacy: 92.9 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

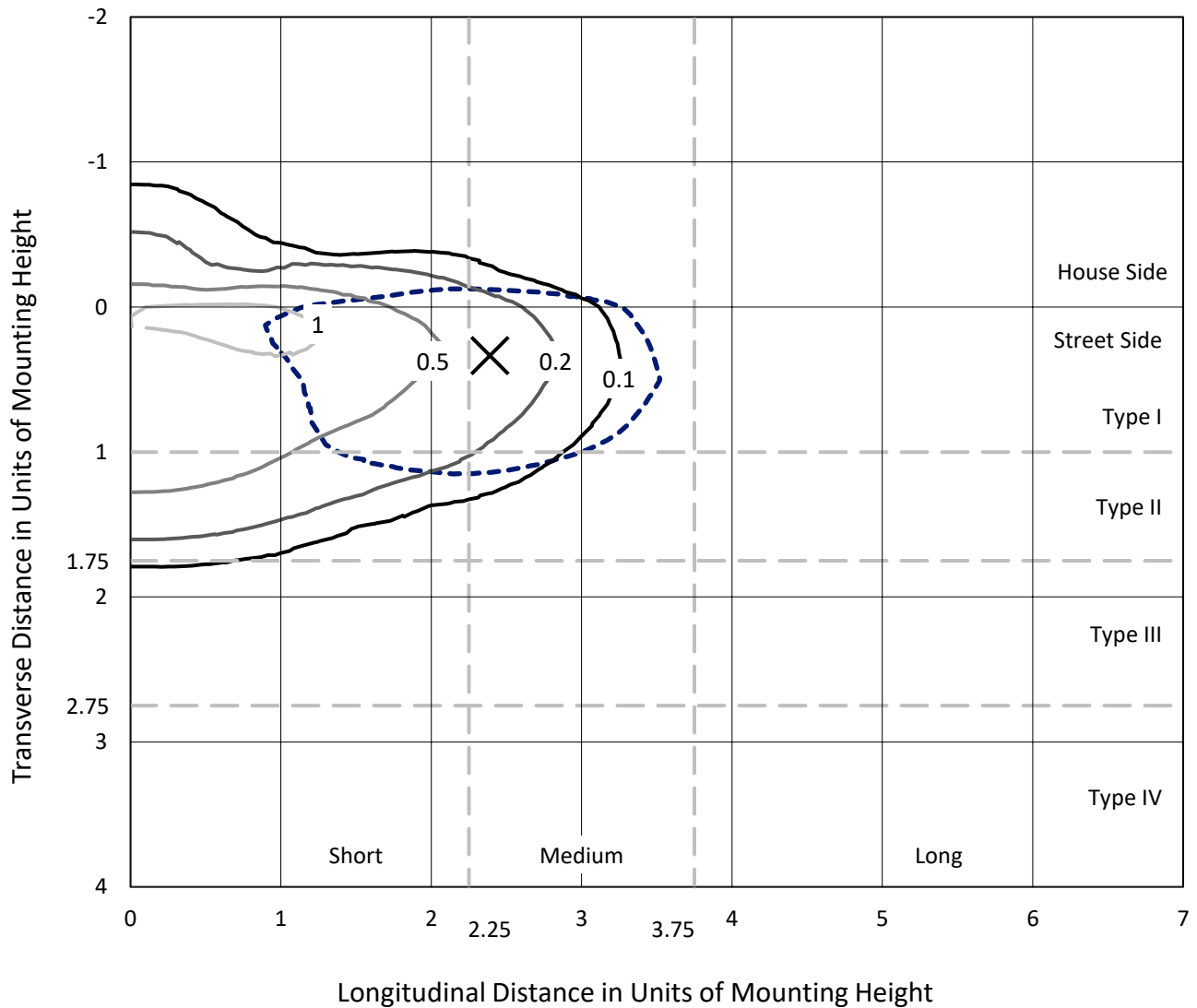
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

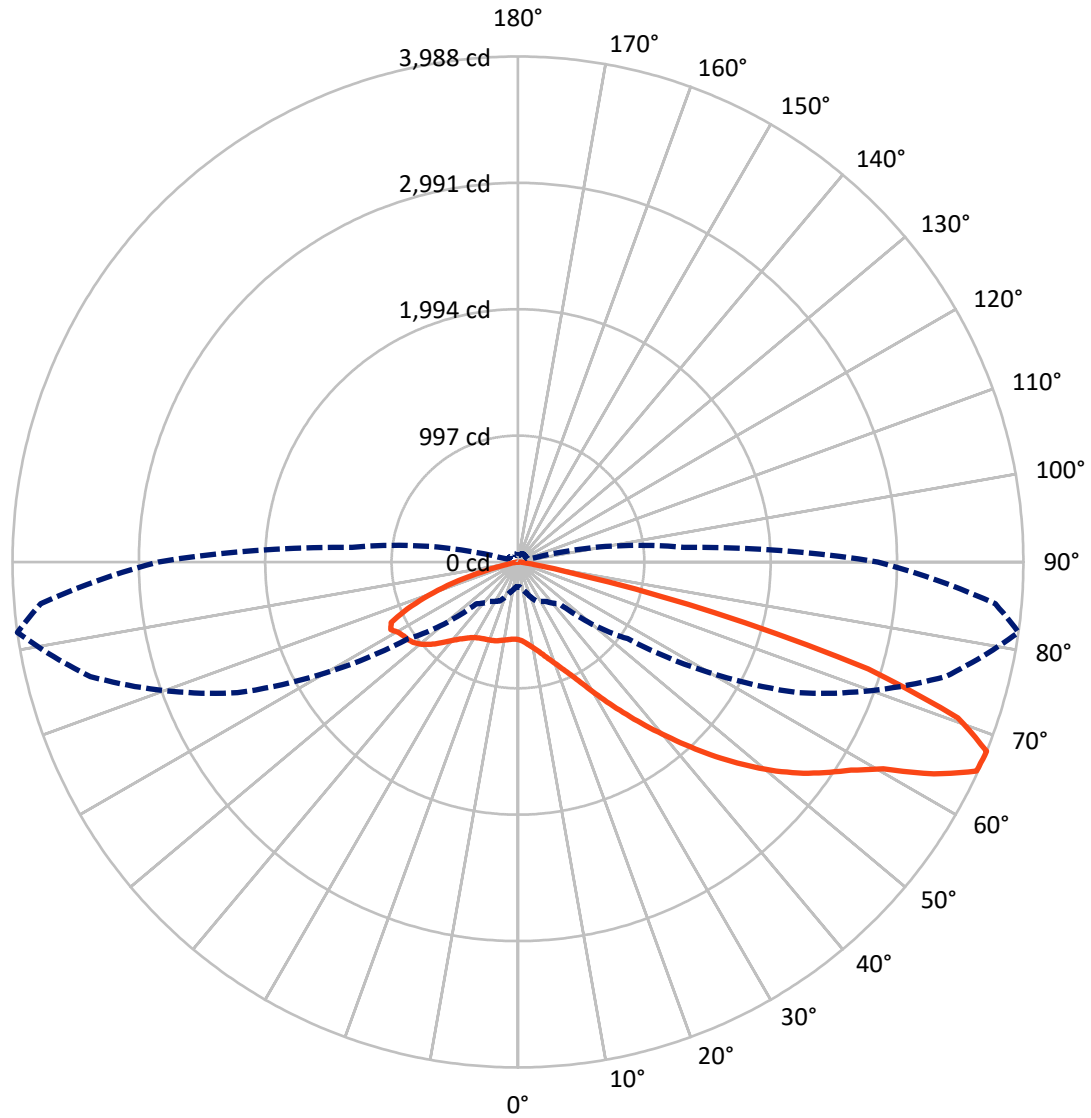
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	669.5	0.0	669.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3026.5	0.0	3026.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	3696.0	0.0	3696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.5
10°-20°	141.8	3.8
20°-30°	227.1	6.1
30°-40°	401.5	10.9
40°-50°	703.5	19.0
50°-60°	938.2	25.4
60°-70°	873.4	23.6
70°-80°	335.2	9.1
80°-90°	20.8	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°	3696.0	100.0
0°-180°	3696.0	100.0

Coefficient of Utilization



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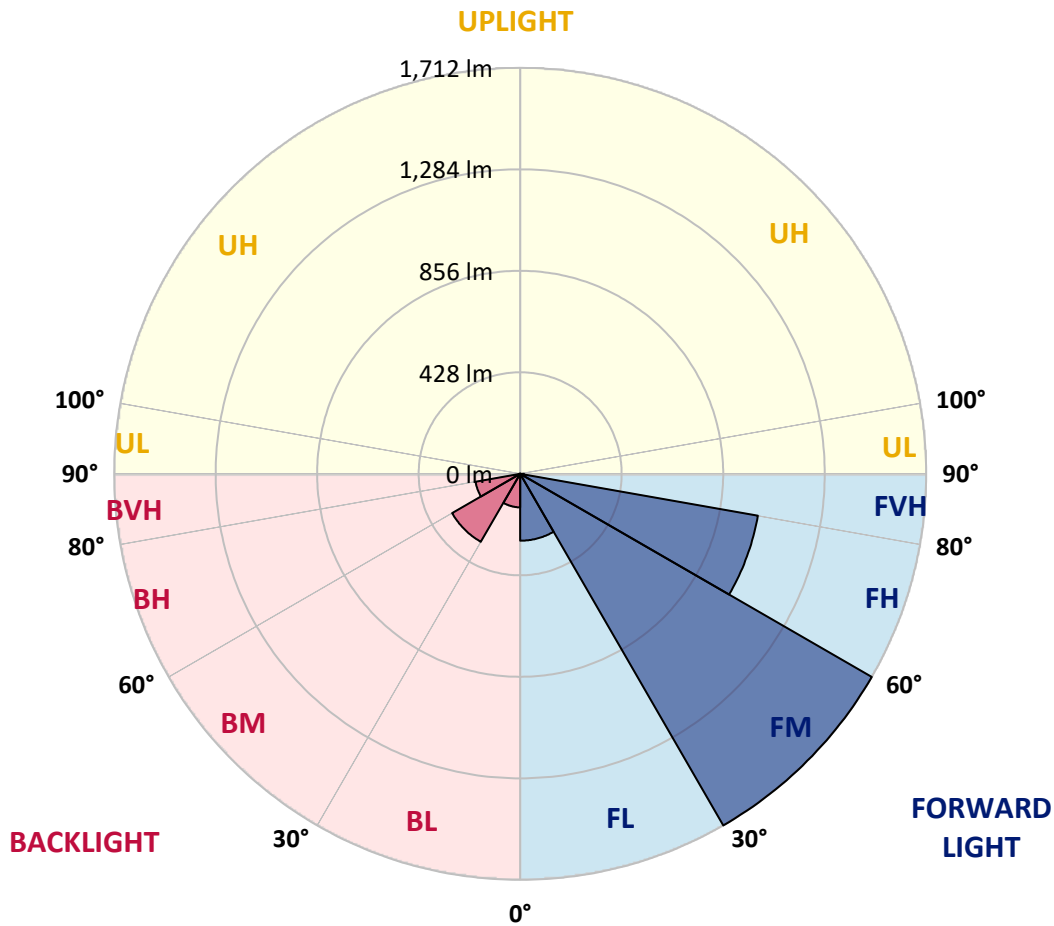
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.0	7.6			
FM (30°-60°)	1711.8	46.3			
FH (60°-80°)	1017.6	27.5			G1/1800
FVH (80°-90°)	15.1	0.4			G1/100
BL (0°-30°)	141.4	3.8	B1/500		
BM (30°-60°)	331.3	9.0	B1/1000		
BH (60°-80°)	191.1	5.2	B1/500		G1/500
BVH (80°-90°)	5.7	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°	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3
2.5°	647.2	650.9	648.8	647.7	645.8	643.2	641.0	634.4	627.5	622.9
5°	660.2	663.9	663.7	664.7	666.1	666.9	666.3	658.9	649.0	641.3
7.5°	649.0	653.3	656.7	662.1	671.4	681.2	686.0	684.4	674.3	663.7
10°	617.4	621.9	630.1	642.6	662.3	683.6	701.4	709.7	703.3	691.6
12.5°	559.3	563.9	580.1	607.2	640.2	677.2	711.3	733.4	735.0	723.3
15°	494.2	498.7	516.0	550.0	600.3	659.7	716.6	758.4	772.5	762.4
17.5°	453.7	457.7	470.7	498.1	550.6	624.5	714.8	785.0	817.2	809.2
20°	441.5	444.9	451.0	470.2	513.8	588.1	702.5	810.0	865.4	860.8
22.5°	454.5	457.7	459.6	468.1	495.5	564.1	687.1	835.6	921.2	921.8
25°	484.6	487.8	485.6	491.0	502.9	556.7	681.2	865.6	991.5	997.4
27.5°	534.1	534.3	529.3	529.0	530.9	567.9	687.3	897.8	1080.1	1091.0
30°	633.3	629.3	609.9	588.9	579.3	601.4	704.4	935.9	1184.7	1204.1
32.5°	786.3	780.5	744.8	694.5	644.0	655.4	735.0	979.3	1298.6	1333.7
35°	952.4	950.8	913.5	838.8	750.4	732.3	784.7	1036.2	1422.9	1478.7
37.5°	1106.7	1105.9	1084.6	996.6	889.0	839.6	864.6	1110.7	1555.9	1636.8
40°	1247.8	1250.2	1228.9	1150.1	1041.8	977.1	973.1	1202.8	1703.9	1809.0
42.5°	1369.6	1372.3	1350.7	1292.5	1192.7	1129.3	1106.5	1315.6	1848.3	1993.9
45°	1452.4	1468.9	1465.7	1419.1	1347.5	1281.8	1266.6	1457.2	2013.1	2190.0
47.5°	1475.8	1491.0	1514.9	1521.3	1477.7	1413.0	1431.1	1627.7	2179.6	2386.4
50°	1418.1	1432.2	1481.9	1548.2	1578.5	1558.6	1591.0	1810.6	2350.2	2582.3
52.5°	1304.2	1318.5	1381.3	1486.2	1609.9	1672.7	1751.5	1990.7	2515.5	2767.7
55°	1139.5	1154.6	1235.2	1353.9	1550.0	1719.8	1885.3	2170.6	2666.9	2934.6
57.5°	915.4	926.6	1010.4	1176.4	1399.4	1673.0	1984.1	2367.0	2809.5	3098.5
60°	596.6	606.4	703.8	889.0	1149.8	1516.5	2003.8	2586.0	2999.0	3311.6
62.5°	396.8	403.4	461.2	597.1	809.8	1216.1	1888.5	2760.8	3276.8	3682.6
65°	272.2	278.9	336.6	431.4	523.2	804.4	1557.2	2737.7	3528.5	3977.2
67.5°	194.3	199.8	248.8	338.2	378.7	467.3	1055.6	2441.8	3492.3	3988.3
70°	139.2	142.4	182.8	263.4	301.0	280.7	587.0	1867.5	3057.8	3682.9
72.5°	97.4	98.5	126.9	200.6	242.4	204.9	279.4	1245.1	2312.7	2890.7
75°	66.0	67.3	85.4	147.2	194.5	156.5	148.0	667.7	1357.7	1600.1
77.5°	40.4	41.0	55.1	100.6	145.6	119.2	95.3	282.9	525.3	515.7
80°	22.9	22.9	35.1	62.5	99.3	76.9	66.8	120.3	166.3	146.1
82.5°	12.8	13.0	25.5	38.9	65.7	45.5	36.7	55.6	71.8	63.6
85°	5.3	5.9	15.7	18.4	31.4	22.6	14.9	23.4	26.6	23.7
87.5°	0.5	0.8	4.8	3.5	3.7	4.5	2.1	4.5	3.7	3.7
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°
612.3	0°	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3
621.3	2.5°	616.3	612.3	602.2	590.5	575.0	567.6	557.5	550.6	544.7	545.2
636.8	5°	628.3	618.2	595.5	567.3	532.2	507.2	480.6	462.2	447.3	444.1
658.1	7.5°	644.8	628.8	589.2	538.3	479.0	434.0	393.8	368.0	349.7	343.8
683.9	10°	666.1	642.9	580.9	501.9	416.5	359.2	316.1	295.9	283.4	279.1
714.2	12.5°	690.8	659.1	570.0	457.4	352.1	297.0	269.6	259.5	255.5	254.1
751.5	15°	721.9	679.4	553.5	404.7	297.5	258.9	247.2	245.9	246.4	245.9
796.2	17.5°	758.9	701.4	526.6	350.5	260.8	239.5	235.2	236.3	237.6	237.4
846.2	20°	799.4	723.3	492.3	302.3	235.8	225.7	223.3	224.3	225.4	224.9
904.0	22.5°	845.4	746.7	454.2	264.8	219.0	212.9	210.2	210.5	210.5	209.4
977.1	25°	900.5	772.5	414.3	238.2	206.2	201.4	198.2	197.2	195.6	192.4
1066.0	27.5°	966.2	799.9	376.0	219.5	196.1	191.6	187.9	185.2	181.2	175.9
1172.7	30°	1040.2	833.2	343.5	207.8	188.1	183.6	179.4	175.4	169.5	162.9
1295.4	32.5°	1127.2	868.8	319.9	200.1	180.9	176.2	171.1	166.3	159.9	153.3
1433.2	35°	1231.0	911.9	306.0	194.8	175.4	169.0	163.4	158.1	153.3	147.4
1583.0	37.5°	1343.6	957.7	301.8	192.1	171.6	161.8	155.4	151.7	151.1	147.7
1745.1	40°	1466.8	1012.0	305.0	190.5	167.6	154.9	148.0	147.2	148.5	142.4
1918.3	42.5°	1597.1	1076.4	310.3	188.7	162.1	148.0	141.3	141.3	140.2	131.7
2101.4	45°	1738.2	1150.6	315.6	184.1	155.4	141.0	136.0	134.1	129.6	121.3
2285.6	47.5°	1880.3	1226.2	319.6	175.9	147.4	135.2	130.7	126.4	119.7	112.3
2466.2	50°	2015.2	1294.1	315.3	163.7	138.4	129.6	124.8	118.9	111.8	106.7
2637.3	52.5°	2135.7	1352.9	297.2	149.3	128.8	123.7	119.5	113.4	107.5	102.2
2791.7	55°	2240.6	1400.5	265.3	135.7	120.3	118.7	114.4	106.7	98.7	94.2
2944.7	57.5°	2341.2	1436.7	225.4	124.5	112.6	113.1	106.7	99.8	92.3	87.5
3150.9	60°	2475.0	1485.1	184.9	114.2	104.3	105.9	99.0	93.9	84.6	78.5
3504.6	62.5°	2689.0	1560.4	146.9	101.4	94.7	95.3	92.3	86.2	75.0	67.9
3766.7	65°	2858.7	1532.8	115.8	87.5	83.8	84.6	84.6	78.0	66.0	57.7
3780.8	67.5°	2839.6	1312.4	92.3	74.0	73.4	74.0	75.8	70.3	58.5	51.9
3492.9	70°	2615.8	1043.9	74.0	61.5	63.9	62.5	67.9	64.1	52.7	46.0
2707.9	72.5°	2134.4	752.0	56.4	50.8	49.0	51.1	61.2	57.7	43.9	36.5
1434.3	75°	1247.2	401.3	42.0	40.2	35.4	42.6	54.3	49.2	33.5	26.9
439.6	77.5°	406.1	140.0	30.9	29.5	26.3	34.3	46.3	41.5	27.4	21.3
128.8	80°	108.8	42.3	21.0	19.4	17.0	25.5	36.7	33.0	19.7	13.8
55.3	82.5°	43.6	17.8	12.2	10.9	9.3	17.6	29.0	26.6	14.6	8.8
17.3	85°	14.1	5.9	4.5	3.5	4.3	10.9	17.3	18.1	10.4	4.5
2.7	87.5°	1.9	0.8	0.8	1.1	0.8	1.9	5.3	5.1	2.9	0.5
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>
612.3
539.9
436.9
338.0
275.9
253.3
245.6
236.8
224.6
208.9
191.9
175.4
162.3
153.5
146.9
147.4
142.6
131.7
121.1
112.0
105.9
101.7
93.7
87.0
77.7
67.3
56.9
50.8
45.2
35.7
26.1
20.5
13.6
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