

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: P946063

Luminaire Tested: **GALN-SB1D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6765 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

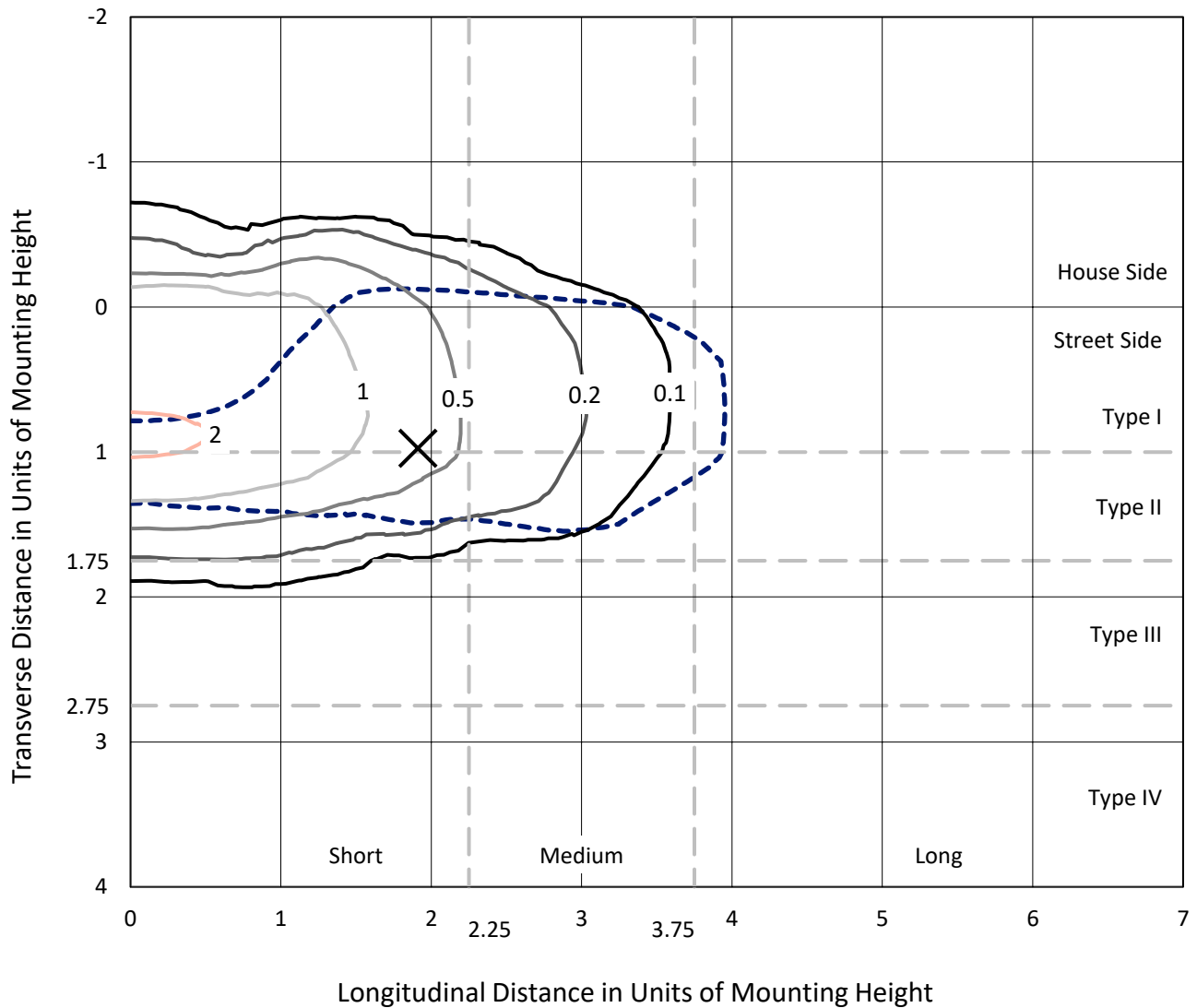
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

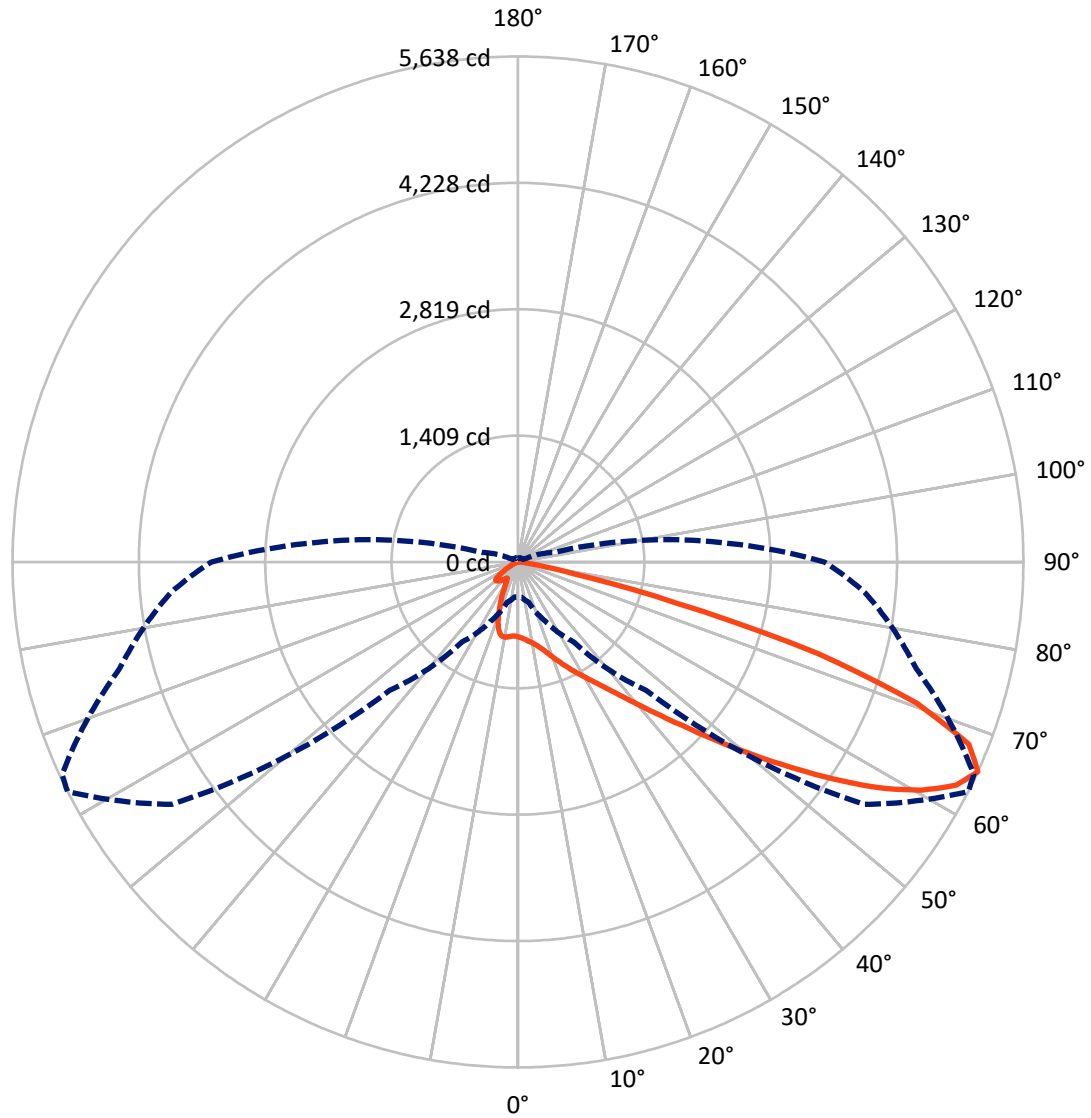
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.4	0.0	994.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5770.6	0.0	5770.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	6765.0	0.0	6765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.2
10°-20°	218.3	3.2
20°-30°	380.1	5.6
30°-40°	685.0	10.1
40°-50°	1358.6	20.1
50°-60°	1850.7	27.4
60°-70°	1477.2	21.8
70°-80°	668.5	9.9
80°-90°	48.1	0.7
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°	6765.0	100.0
0°-180°	6765.0	100.0

Coefficient of Utilization

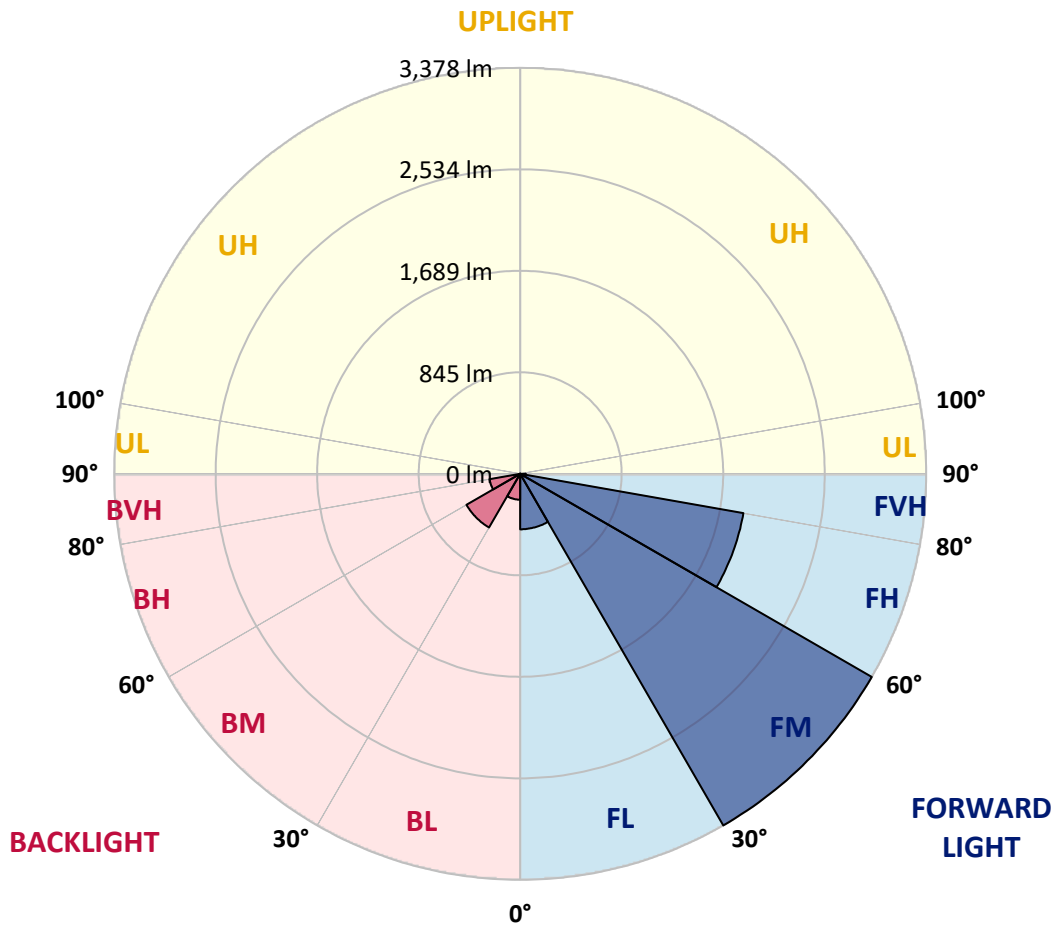


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.8	6.8			
FM (30°-60°)	3378.3	49.9			
FH (60°-80°)	1886.0	27.9			G2/5000
FVH (80°-90°)	44.5	0.7			G1/100
BL (0°-30°)	215.2	3.2	B1/500		
BM (30°-60°)	516.0	7.6	B1/1000		
BH (60°-80°)	259.6	3.8	B1/500		G1/500
BVH (80°-90°)	3.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9
2.5°	854.5	852.1	855.4	854.0	853.1	851.2	850.3	849.4	847.5	846.1
5°	856.8	855.4	858.7	861.5	864.2	867.0	868.4	870.3	868.4	864.7
7.5°	837.3	836.3	843.3	851.7	864.2	875.0	886.6	893.1	893.6	892.2
10°	835.9	833.5	840.5	850.8	867.0	886.1	906.6	920.6	922.4	928.5
12.5°	857.7	855.4	865.2	876.3	893.1	913.1	938.2	957.8	960.6	969.0
15°	894.5	891.2	902.4	916.8	938.2	961.1	987.6	1005.3	1007.6	1017.8
17.5°	937.3	934.1	947.1	962.4	985.7	1016.9	1047.6	1067.2	1070.0	1076.5
20°	992.2	988.0	998.3	1012.2	1036.9	1074.1	1110.9	1138.8	1138.4	1138.4
22.5°	1056.0	1049.5	1058.3	1069.5	1092.8	1137.9	1186.8	1219.8	1219.8	1206.8
25°	1124.4	1117.9	1127.7	1137.9	1158.4	1209.6	1266.8	1307.8	1309.6	1287.3
27.5°	1210.0	1201.7	1209.1	1221.2	1233.3	1285.4	1353.4	1400.9	1401.8	1367.3
30°	1374.8	1351.1	1327.8	1314.8	1320.3	1372.0	1444.6	1497.2	1501.8	1454.4
32.5°	1676.4	1671.7	1589.8	1482.8	1426.9	1465.1	1546.5	1609.8	1612.6	1551.6
35°	2145.0	2139.4	2007.7	1803.9	1621.9	1589.8	1670.3	1745.3	1743.4	1674.5
37.5°	2704.4	2699.3	2525.7	2253.0	1958.4	1778.3	1830.0	1908.6	1920.2	1830.0
40°	3182.4	3163.3	3053.5	2790.5	2405.2	2091.0	2057.1	2109.2	2121.3	2014.3
42.5°	3544.5	3528.2	3472.4	3308.1	2946.0	2553.7	2324.7	2344.7	2358.2	2229.7
45°	3732.0	3728.3	3750.7	3735.3	3497.0	3121.4	2707.2	2623.9	2629.0	2468.5
47.5°	3758.6	3756.7	3858.6	4002.9	3970.8	3761.8	3198.2	2972.0	2953.9	2738.0
50°	3602.2	3598.5	3793.9	4064.3	4287.3	4299.8	3755.8	3364.4	3324.4	3016.7
52.5°	3102.8	3101.9	3423.0	3873.1	4398.5	4770.8	4306.8	3795.3	3728.3	3311.8
55°	2387.5	2404.7	2772.9	3304.8	4195.6	4997.5	4801.5	4273.8	4170.9	3608.7
57.5°	1691.3	1716.4	2080.3	2554.1	3566.4	4863.4	5136.2	4753.1	4642.4	3904.7
60°	908.5	930.8	1295.2	1860.7	2653.2	4363.6	5312.5	5169.2	5064.5	4185.8
62.5°	541.3	548.7	699.5	1201.2	1794.6	3333.7	5237.6	5486.1	5400.0	4421.8
65°	388.6	390.0	465.9	733.5	1089.5	2025.4	4712.2	5637.9	5611.3	4599.6
67.5°	327.2	326.2	357.9	487.3	742.3	1014.6	3611.5	5423.3	5535.9	4712.2
70°	280.6	282.0	319.3	357.0	558.0	574.3	1795.5	4722.0	4962.1	4742.0
72.5°	209.0	213.6	248.1	325.3	421.2	395.1	619.9	3501.2	3935.4	4467.8
75°	147.5	149.9	174.5	273.7	314.1	287.6	316.5	1809.9	2366.6	3425.3
77.5°	113.6	117.7	132.2	191.3	309.5	202.0	193.6	626.4	962.4	2069.2
80°	61.4	68.9	95.4	138.2	217.3	142.9	95.9	249.5	326.2	967.6
82.5°	31.6	35.4	66.6	99.6	123.8	124.7	47.5	103.8	134.5	298.8
85°	12.6	15.4	44.7	54.9	63.8	61.4	21.4	41.9	48.4	82.8
87.5°	2.8	4.7	16.3	12.6	12.1	13.0	5.1	9.8	9.3	9.8
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°
834.9	0°	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9
840.5	2.5°	840.0	838.2	833.1	827.5	821.0	817.2	814.9	814.5	811.2	808.9
859.1	5°	854.0	852.1	842.4	830.7	818.2	808.4	799.1	790.7	778.6	776.3
886.1	7.5°	881.9	876.8	861.0	845.2	821.4	793.0	758.6	719.0	683.7	673.0
922.0	10°	916.4	909.4	889.4	861.5	808.9	731.6	648.3	571.0	509.6	492.4
964.3	12.5°	955.5	949.4	922.9	871.2	756.3	616.2	488.7	392.8	333.2	318.3
1009.5	15°	1002.0	993.2	956.4	856.3	662.3	468.2	335.6	278.8	257.4	254.6
1061.1	17.5°	1051.3	1036.9	986.2	802.8	535.7	332.8	259.2	242.9	233.6	230.8
1113.2	20°	1096.5	1077.9	1003.9	721.8	400.2	259.2	232.2	221.5	213.2	209.9
1165.4	22.5°	1141.6	1115.1	1003.9	611.5	300.2	229.9	213.2	203.4	193.6	189.4
1221.2	25°	1188.6	1153.3	986.2	488.7	241.5	210.8	195.0	184.3	175.9	170.8
1274.3	27.5°	1234.2	1185.4	945.7	372.3	215.0	194.1	178.2	168.0	160.1	156.4
1332.0	30°	1277.5	1217.0	888.9	282.5	197.8	177.8	162.9	154.0	146.1	142.4
1406.9	32.5°	1336.2	1257.0	828.4	231.8	182.9	162.4	148.9	140.6	133.6	130.8
1504.2	35°	1417.6	1316.2	776.3	227.6	170.3	149.9	136.4	128.5	121.5	119.1
1629.8	37.5°	1533.0	1411.6	748.8	255.5	160.1	138.7	126.1	117.7	111.2	109.4
1789.5	40°	1675.4	1540.9	763.7	283.4	153.1	128.9	116.8	108.4	102.9	100.5
1972.8	42.5°	1844.4	1700.6	846.1	304.8	148.5	120.5	108.0	98.7	94.9	94.0
2180.9	45°	2038.5	1876.0	972.2	327.6	141.0	112.6	99.1	92.1	89.4	88.9
2407.1	47.5°	2259.1	2068.7	1118.4	356.0	133.6	105.2	92.1	87.5	85.2	84.2
2643.0	50°	2477.8	2262.8	1268.7	371.9	127.5	98.2	86.6	82.8	81.0	80.5
2892.5	52.5°	2706.8	2462.4	1390.2	357.0	122.4	92.6	81.9	79.1	77.3	76.8
3122.4	55°	2925.0	2623.9	1411.1	303.0	112.2	87.0	76.8	75.4	73.1	73.1
3355.5	57.5°	3113.1	2704.9	1263.1	222.5	101.9	78.7	71.7	70.3	68.4	67.9
3565.9	60°	3285.7	2681.6	975.0	149.9	90.8	70.3	65.2	64.2	62.4	60.0
3748.8	62.5°	3383.0	2579.3	666.9	97.7	79.6	61.4	57.7	57.2	53.1	48.4
3884.2	65°	3419.8	2368.9	416.1	71.2	66.6	52.6	49.8	48.9	42.8	37.7
3961.0	67.5°	3387.7	2022.6	209.9	56.3	52.6	43.7	41.0	41.0	36.8	32.1
3956.4	70°	3259.2	1516.3	88.4	45.1	40.5	33.5	33.5	35.4	31.2	26.1
3751.1	72.5°	2980.4	1020.2	47.0	34.4	30.3	23.7	27.5	28.9	24.7	19.5
3070.2	75°	2369.4	622.2	32.6	25.6	19.1	16.8	20.9	21.9	16.8	13.0
2105.0	77.5°	1620.5	357.4	21.9	16.3	12.1	9.8	14.4	13.5	8.8	6.1
811.7	80°	711.6	148.9	12.6	7.4	4.7	3.7	5.1	3.7	2.8	1.9
111.2	82.5°	83.3	34.9	4.7	2.8	1.9	0.9	0.5	0.0	0.0	0.0
34.0	85°	17.2	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
6.1	87.5°	3.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
834.9
811.2
775.4
667.8
485.9
314.1
251.8
229.4
208.0
187.1
168.9
156.4
142.9
130.8
119.1
108.9
100.1
94.0
88.4
84.2
80.5
76.8
72.6
67.5
59.6
47.5
37.2
31.6
25.6
19.5
12.6
6.5
1.9
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