

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: P946609

Luminaire Tested: **GALN-SB2A-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946609  
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-SB2A-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

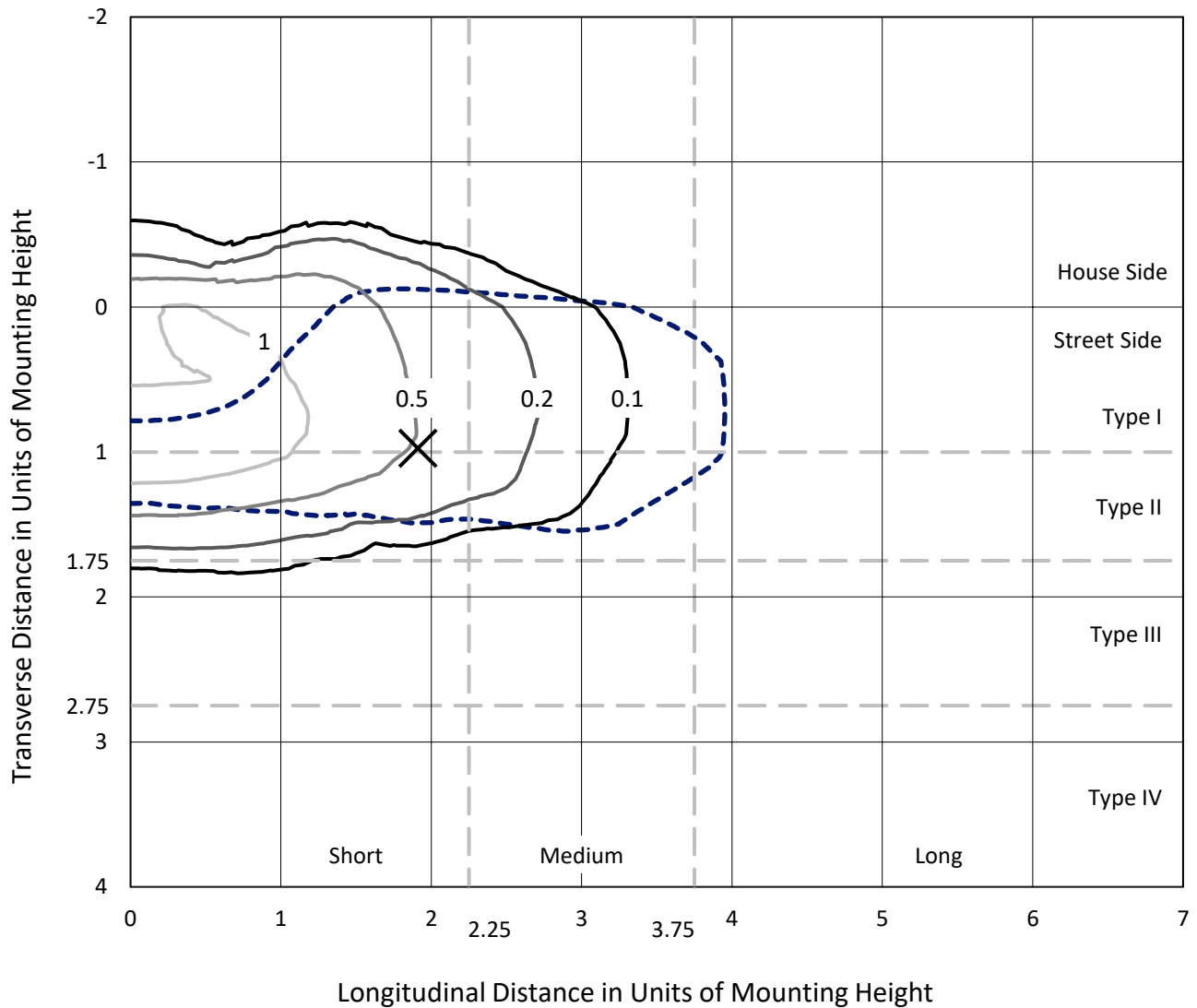
Lumens per Lamp: N/A  
Luminaire Lumens: 4769 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

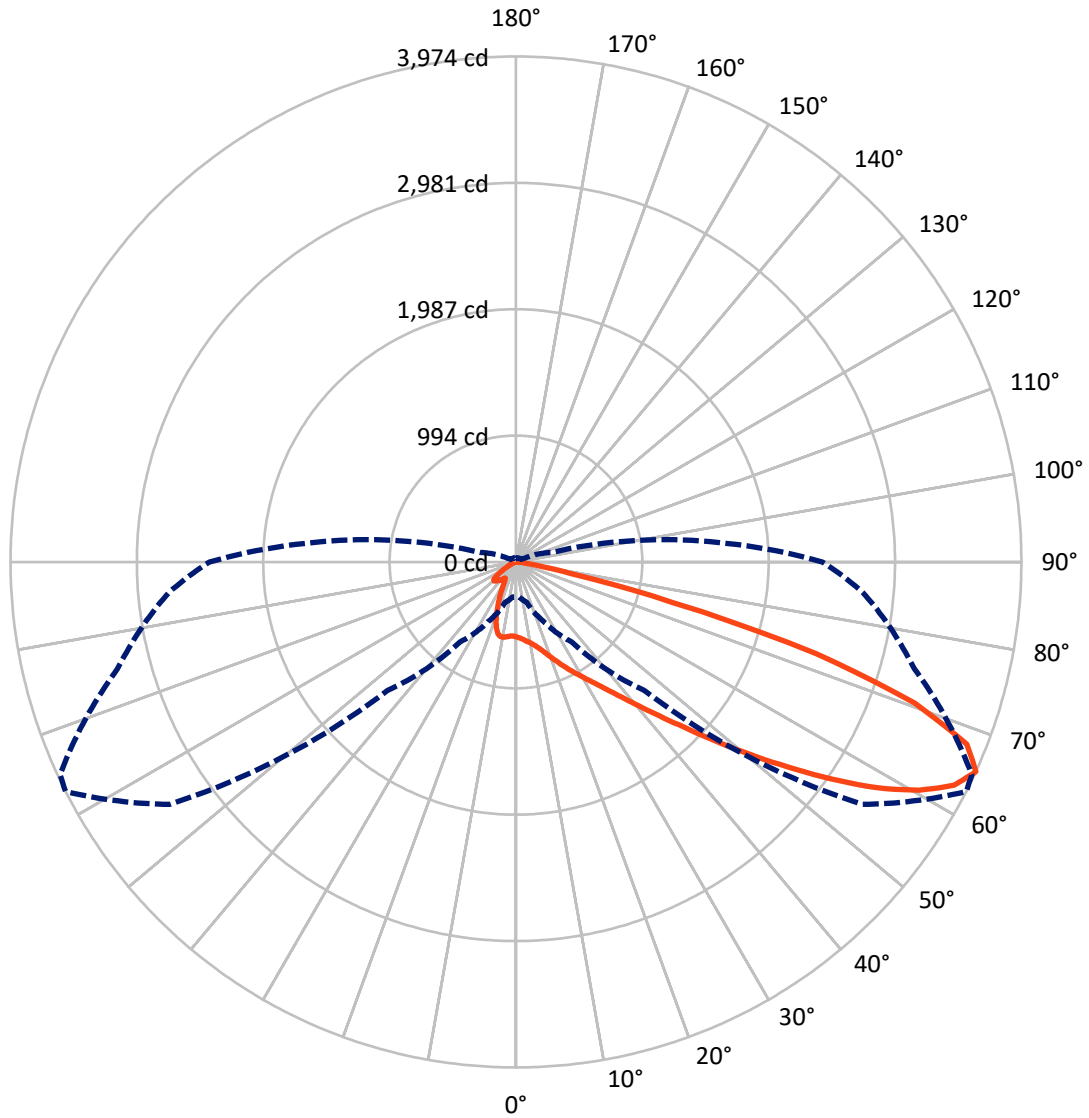
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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
<b>House Side</b>	Lumens	701.0	0.0	701.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	4068.0	0.0	4068.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	4769.0	0.0	4769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	1.2
10°-20°	153.9	3.2
20°-30°	267.9	5.6
30°-40°	482.9	10.1
40°-50°	957.8	20.1
50°-60°	1304.6	27.4
60°-70°	1041.3	21.8
70°-80°	471.2	9.9
80°-90°	33.9	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°	4769.0	100.0
0°-180°	4769.0	100.0

**Coefficient of Utilization**



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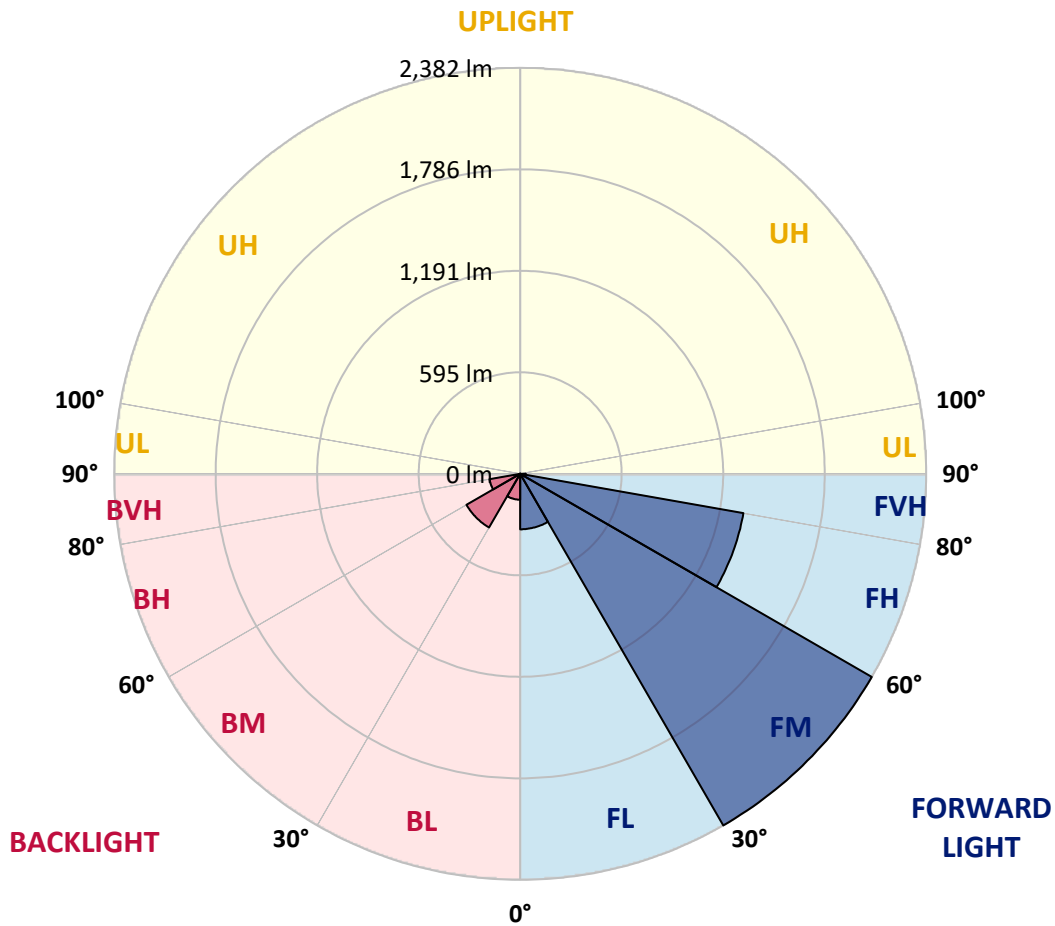
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.5	6.8			
FM (30°-60°)	2381.5	49.9			
FH (60°-80°)	1329.6	27.9			G1/1800
FVH (80°-90°)	31.4	0.7			G1/100
BL (0°-30°)	151.7	3.2	B1/500		
BM (30°-60°)	363.8	7.6	B1/1000		
BH (60°-80°)	183.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.5	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
2.5°	602.4	600.7	603.0	602.0	601.4	600.1	599.4	598.8	597.4	596.5
5°	604.0	603.0	605.3	607.3	609.3	611.2	612.2	613.5	612.2	609.6
7.5°	590.2	589.6	594.5	600.4	609.3	616.8	625.0	629.6	629.9	628.9
10°	589.2	587.6	592.5	599.7	611.2	624.7	639.1	649.0	650.3	654.5
12.5°	604.7	603.0	609.9	617.8	629.6	643.7	661.4	675.2	677.2	683.1
15°	630.6	628.3	636.2	646.3	661.4	677.5	696.2	708.7	710.3	717.5
17.5°	660.8	658.5	667.7	678.5	694.9	716.9	738.5	752.3	754.3	758.9
20°	699.5	696.5	703.7	713.6	731.0	757.2	783.1	802.8	802.5	802.5
22.5°	744.4	739.8	746.1	753.9	770.3	802.2	836.6	859.9	859.9	850.7
25°	792.7	788.1	795.0	802.2	816.6	852.7	893.0	921.9	923.2	907.5
27.5°	853.0	847.1	852.4	860.9	869.4	906.2	954.1	987.5	988.2	963.9
30°	969.2	952.4	936.0	926.8	930.8	967.2	1018.4	1055.4	1058.7	1025.3
32.5°	1181.8	1178.5	1120.7	1045.3	1005.9	1032.8	1090.2	1134.8	1136.8	1093.8
35°	1512.1	1508.2	1415.4	1271.7	1143.4	1120.7	1177.5	1230.3	1229.0	1180.5
37.5°	1906.5	1902.9	1780.5	1588.3	1380.6	1253.6	1290.0	1345.5	1353.7	1290.0
40°	2243.4	2230.0	2152.6	1967.2	1695.5	1474.1	1450.1	1486.9	1495.4	1420.0
42.5°	2498.7	2487.2	2447.8	2332.0	2076.8	1800.2	1638.8	1652.9	1662.4	1571.9
45°	2630.9	2628.3	2644.0	2633.2	2465.2	2200.5	1908.5	1849.7	1853.4	1740.2
47.5°	2649.6	2648.3	2720.2	2821.9	2799.2	2651.9	2254.6	2095.2	2082.4	1930.1
50°	2539.4	2536.8	2674.5	2865.2	3022.3	3031.2	2647.6	2371.7	2343.5	2126.6
52.5°	2187.3	2186.7	2413.1	2730.3	3100.7	3363.2	3036.1	2675.5	2628.3	2334.7
55°	1683.1	1695.2	1954.7	2329.7	2957.7	3523.0	3384.9	3012.8	2940.3	2544.0
57.5°	1192.3	1210.0	1466.5	1800.5	2514.1	3428.5	3620.7	3350.7	3272.6	2752.6
60°	640.4	656.2	913.1	1311.7	1870.4	3076.1	3745.1	3644.0	3570.2	2950.8
62.5°	381.6	386.8	493.1	846.8	1265.1	2350.1	3692.3	3867.5	3806.8	3117.1
65°	274.0	274.9	328.4	517.1	768.0	1427.8	3321.9	3974.4	3955.7	3242.5
67.5°	230.6	230.0	252.3	343.5	523.3	715.2	2545.9	3823.2	3902.6	3321.9
70°	197.8	198.8	225.1	251.6	393.4	404.9	1265.8	3328.8	3498.0	3342.9
72.5°	147.3	150.6	174.9	229.3	296.9	278.5	437.0	2468.2	2774.3	3149.6
75°	104.0	105.6	123.0	192.9	221.5	202.8	223.1	1275.9	1668.3	2414.7
77.5°	80.1	83.0	93.2	134.8	218.2	142.4	136.5	441.6	678.5	1458.7
80°	43.3	48.6	67.3	97.4	153.2	100.7	67.6	175.9	230.0	682.1
82.5°	22.3	24.9	46.9	70.2	87.3	87.9	33.5	73.2	94.8	210.6
85°	8.9	10.8	31.5	38.7	44.9	43.3	15.1	29.5	34.1	58.4
87.5°	2.0	3.3	11.5	8.9	8.5	9.2	3.6	6.9	6.6	6.9
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°
588.6	0°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
592.5	2.5°	592.2	590.9	587.3	583.3	578.7	576.1	574.5	574.1	571.9	570.2
605.6	5°	602.0	600.7	593.8	585.6	576.8	569.9	563.3	557.4	548.9	547.2
624.7	7.5°	621.7	618.1	607.0	595.8	579.1	559.1	534.8	506.9	482.0	474.4
649.9	10°	646.0	641.1	627.0	607.3	570.2	515.7	457.0	402.6	359.3	347.1
679.8	12.5°	673.6	669.3	650.6	614.2	533.1	434.4	344.5	276.9	234.9	224.4
711.6	15°	706.4	700.1	674.2	603.7	466.9	330.1	236.5	196.5	181.4	179.5
748.0	17.5°	741.1	731.0	695.2	565.9	377.6	234.6	182.7	171.3	164.7	162.7
784.8	20°	773.0	759.8	707.7	508.9	282.2	182.7	163.7	156.2	150.3	148.0
821.5	22.5°	804.8	786.1	707.7	431.1	211.6	162.1	150.3	143.4	136.5	133.5
860.9	25°	837.9	813.0	695.2	344.5	170.3	148.6	137.5	129.9	124.0	120.4
898.3	27.5°	870.1	835.6	666.7	262.5	151.6	136.8	125.7	118.4	112.9	110.2
939.0	30°	900.6	857.9	626.6	199.1	139.4	125.3	114.8	108.6	103.0	100.4
991.8	32.5°	941.9	886.2	584.0	163.4	128.9	114.5	105.0	99.1	94.2	92.2
1060.4	35°	999.3	927.8	547.2	160.4	120.1	105.6	96.1	90.6	85.6	84.0
1149.0	37.5°	1080.7	995.1	527.9	180.1	112.9	97.8	88.9	83.0	78.4	77.1
1261.5	40°	1181.1	1086.3	538.4	199.8	107.9	90.9	82.3	76.4	72.5	70.9
1390.8	42.5°	1300.2	1198.8	596.5	214.9	104.7	85.0	76.1	69.6	66.9	66.3
1537.4	45°	1437.0	1322.5	685.4	231.0	99.4	79.4	69.9	65.0	63.0	62.7
1696.9	47.5°	1592.5	1458.3	788.4	251.0	94.2	74.1	65.0	61.7	60.0	59.4
1863.2	50°	1746.7	1595.1	894.4	262.1	89.9	69.2	61.0	58.4	57.1	56.8
2039.0	52.5°	1908.1	1735.9	980.0	251.6	86.3	65.3	57.7	55.8	54.5	54.1
2201.1	55°	2062.0	1849.7	994.8	213.6	79.1	61.4	54.1	53.1	51.5	51.5
2365.5	57.5°	2194.6	1906.8	890.4	156.8	71.9	55.4	50.5	49.5	48.2	47.9
2513.8	60°	2316.3	1890.4	687.3	105.6	64.0	49.5	45.9	45.3	44.0	42.3
2642.7	62.5°	2384.9	1818.2	470.1	68.9	56.1	43.3	40.7	40.4	37.4	34.1
2738.2	65°	2410.8	1670.0	293.3	50.2	46.9	37.1	35.1	34.4	30.2	26.6
2792.3	67.5°	2388.1	1425.9	148.0	39.7	37.1	30.8	28.9	28.9	25.9	22.6
2789.1	70°	2297.6	1068.9	62.3	31.8	28.5	23.6	23.6	24.9	22.0	18.4
2644.4	72.5°	2101.1	719.2	33.1	24.3	21.3	16.7	19.4	20.3	17.4	13.8
2164.4	75°	1670.3	438.6	23.0	18.0	13.5	11.8	14.8	15.4	11.8	9.2
1483.9	77.5°	1142.4	252.0	15.4	11.5	8.5	6.9	10.2	9.5	6.2	4.3
572.2	80°	501.6	105.0	8.9	5.2	3.3	2.6	3.6	2.6	2.0	1.3
78.4	82.5°	58.7	24.6	3.3	2.0	1.3	0.7	0.3	0.0	0.0	0.0
24.0	85°	12.1	3.0	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	2.3	0.7	0.3	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>
588.6
571.9
546.6
470.8
342.5
221.5
177.5
161.7
146.7
131.9
119.1
110.2
100.7
92.2
84.0
76.8
70.5
66.3
62.3
59.4
56.8
54.1
51.2
47.6
42.0
33.5
26.2
22.3
18.0
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