

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: P939376

Luminaire Tested: **GALN-SB1D-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

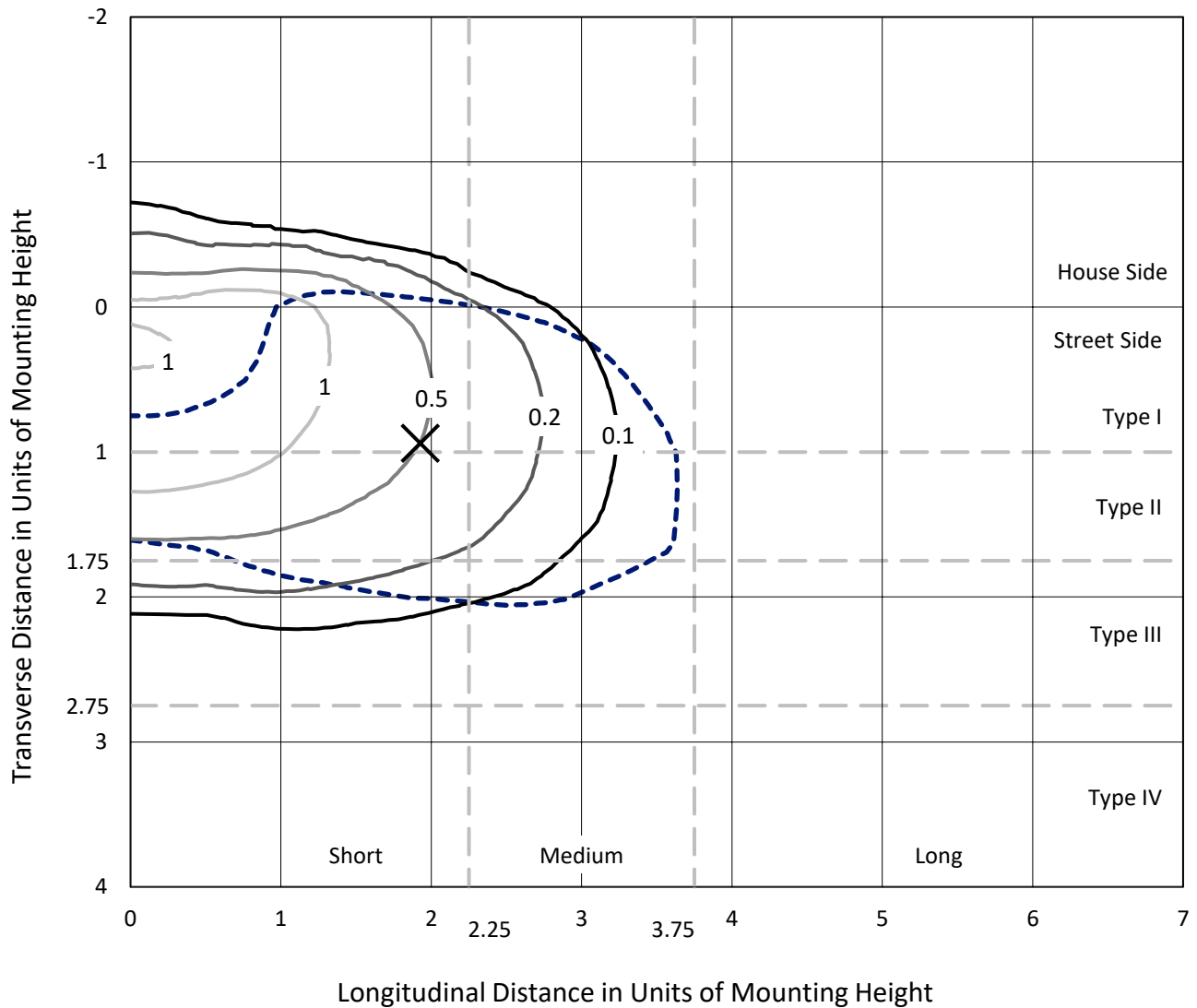
Lumens per Lamp: N/A  
Luminaire Lumens: 5785 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

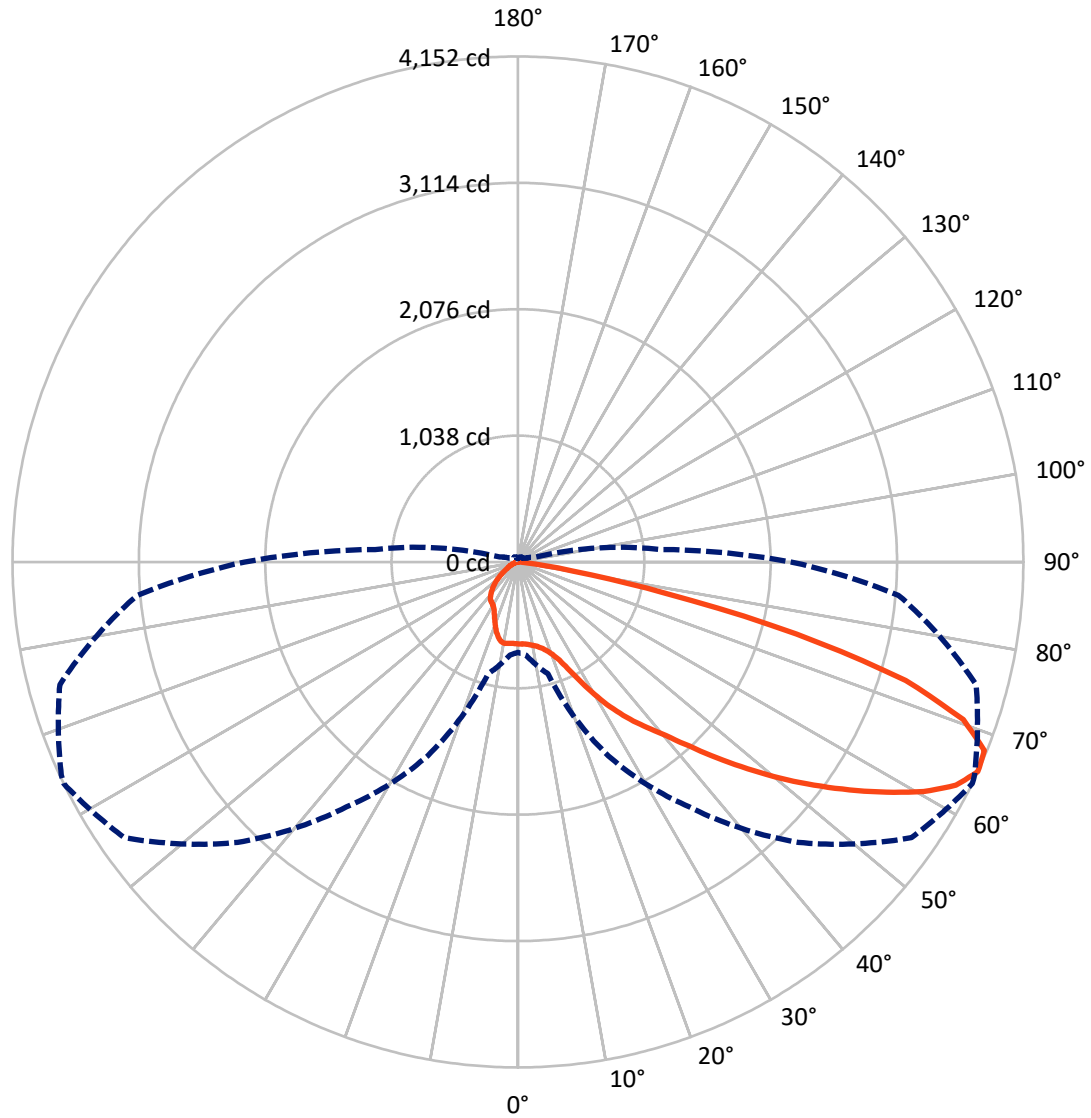
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	773.6	0.0	773.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5011.4	0.0	5011.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5785.0	0.0	5785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	1.1
10°-20°	168.4	2.9
20°-30°	319.1	5.5
30°-40°	645.6	11.2
40°-50°	1099.8	19.0
50°-60°	1495.6	25.9
60°-70°	1404.5	24.3
70°-80°	562.7	9.7
80°-90°	27.3	0.5
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°	5785.0	100.0
0°-180°	5785.0	100.0

**Coefficient of Utilization**



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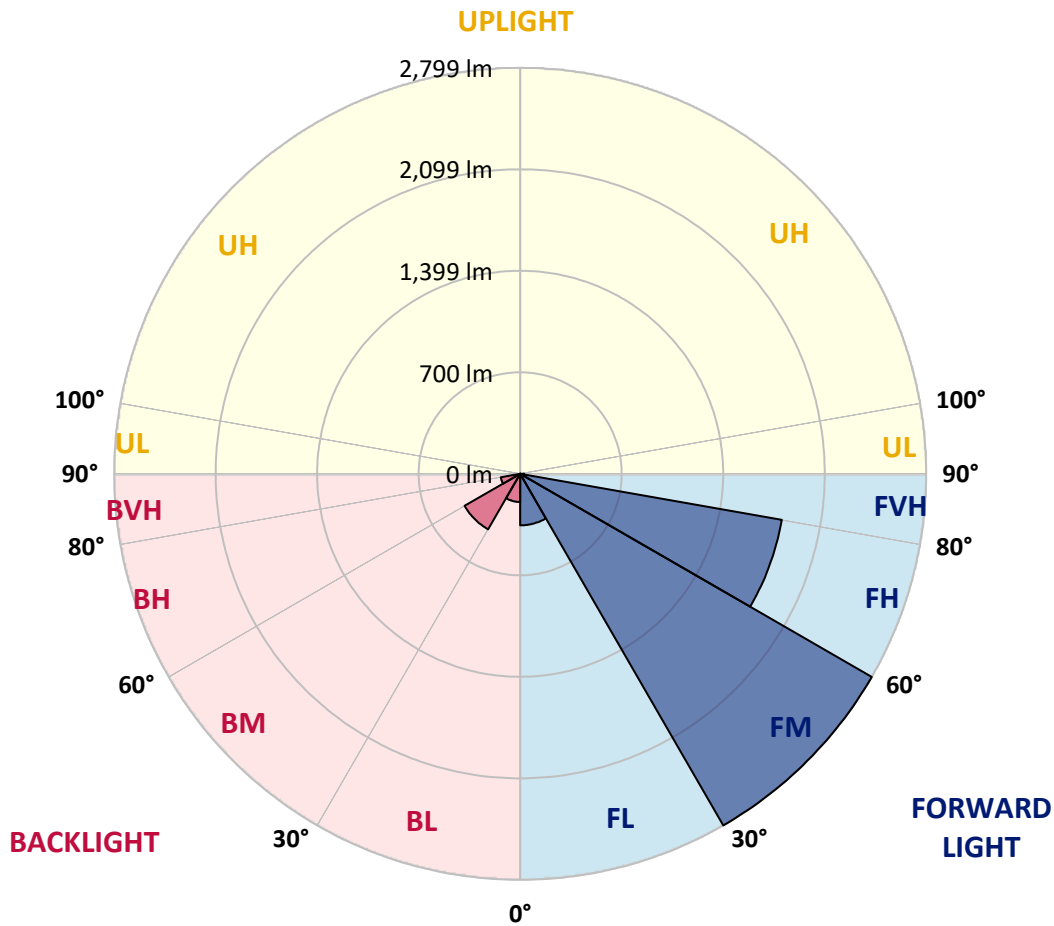
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	6.1			
FM (30°-60°)	2798.8	48.4			
FH (60°-80°)	1831.4	31.7			G2/5000
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	194.2	3.4	B1/500		
BM (30°-60°)	442.3	7.6	B1/1000		
BH (60°-80°)	135.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9
2.5°	670.5	675.2	674.0	672.9	672.5	673.2	673.6	673.2	673.2	673.2
5°	657.7	661.6	661.6	664.3	668.2	672.9	676.3	677.1	677.9	679.1
7.5°	633.3	636.4	638.7	647.6	657.3	669.8	680.2	685.7	686.4	690.7
10°	616.6	620.5	624.4	633.7	647.6	666.3	684.1	697.3	699.2	709.3
12.5°	615.8	619.7	624.8	634.8	651.1	670.9	692.6	711.6	715.1	729.9
15°	624.0	628.6	633.3	645.7	663.2	687.2	710.5	734.1	737.6	758.6
17.5°	640.7	646.9	650.4	662.8	681.4	708.1	738.8	765.9	769.0	793.5
20°	673.6	681.0	682.2	692.2	710.5	739.2	775.6	809.4	813.2	841.2
22.5°	741.9	752.4	743.0	748.1	764.4	793.1	832.6	875.3	880.7	912.5
25°	862.1	876.8	852.8	844.3	851.2	881.1	930.8	984.7	990.9	1016.5
27.5°	1098.3	1079.3	1042.8	1007.2	986.2	1003.3	1059.1	1125.8	1133.6	1158.4
30°	1357.7	1341.1	1291.8	1212.7	1163.1	1160.3	1211.9	1286.4	1295.3	1319.0
32.5°	1617.6	1601.7	1548.1	1450.8	1364.7	1322.1	1357.7	1440.3	1445.0	1460.1
35°	1873.1	1856.8	1803.3	1703.7	1597.8	1500.8	1493.9	1586.9	1588.5	1604.4
37.5°	2130.3	2116.7	2059.7	1961.9	1857.6	1723.8	1659.1	1725.8	1727.7	1743.2
40°	2313.7	2319.5	2280.3	2204.7	2115.1	1968.9	1844.4	1873.5	1861.9	1887.9
42.5°	2471.1	2482.8	2448.7	2410.6	2358.7	2229.9	2074.0	2069.0	2050.4	2064.3
45°	2607.3	2617.0	2586.3	2577.4	2576.2	2485.9	2324.9	2294.7	2268.7	2266.0
47.5°	2657.3	2675.9	2689.1	2719.0	2777.1	2739.1	2584.4	2537.5	2508.4	2487.0
50°	2676.3	2696.1	2741.1	2827.9	2965.6	2981.9	2842.7	2789.9	2754.2	2715.5
52.5°	2650.7	2686.0	2746.5	2892.7	3092.4	3176.6	3090.5	3044.3	3003.6	2940.4
55°	2499.8	2535.1	2658.8	2891.9	3155.6	3313.1	3324.7	3304.2	3258.4	3158.7
57.5°	2181.8	2234.2	2430.0	2793.4	3154.5	3430.6	3554.3	3569.0	3517.9	3375.1
60°	1741.3	1812.3	2051.1	2575.1	3057.1	3494.2	3755.6	3829.3	3775.0	3588.4
62.5°	1215.0	1297.2	1523.3	2233.0	2834.5	3448.4	3902.6	4038.7	3997.6	3779.2
65°	741.1	767.5	949.8	1757.2	2456.0	3256.9	3947.9	4151.9	4138.4	3896.0
67.5°	493.7	515.8	568.1	1204.9	1906.5	2874.1	3839.3	4132.1	4136.0	3877.0
70°	297.5	316.5	350.6	700.8	1235.6	2274.9	3503.1	3880.1	3902.6	3622.9
72.5°	122.5	135.3	166.4	317.6	639.9	1443.8	2789.5	3331.3	3383.7	3046.3
75°	69.4	76.0	97.7	159.4	277.7	672.9	1689.7	2364.9	2442.1	2099.6
77.5°	46.1	49.3	63.2	103.2	156.3	229.6	722.1	1232.1	1379.5	1146.8
80°	31.0	33.7	43.4	69.0	101.6	98.5	230.0	456.5	561.6	394.0
82.5°	20.9	21.3	31.0	45.4	64.4	47.7	67.9	141.9	178.4	114.0
85°	12.0	11.6	22.9	26.4	28.7	19.8	20.6	42.7	55.8	48.1
87.5°	1.6	2.3	8.9	7.0	3.9	4.3	4.3	7.4	10.9	11.6
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°
672.9	0°	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9
673.6	2.5°	673.6	673.2	672.1	670.9	668.2	666.7	667.4	666.7	666.3	666.7
678.7	5°	678.7	677.5	674.4	670.5	665.1	658.5	654.2	648.0	642.2	638.7
692.2	7.5°	692.2	691.1	686.8	676.0	658.5	631.0	605.8	583.7	567.0	557.3
714.0	10°	714.0	712.0	705.4	681.4	635.6	575.5	525.5	484.0	456.8	444.0
739.6	12.5°	739.6	737.2	725.6	676.3	592.2	498.3	429.3	383.2	358.0	346.7
769.0	15°	769.8	766.7	743.8	652.3	529.0	413.0	349.8	315.3	299.0	288.9
806.7	17.5°	807.4	802.0	757.4	616.2	460.3	347.9	300.9	275.0	260.6	250.9
855.9	20°	856.3	847.4	768.3	573.2	397.1	306.8	268.0	246.3	235.4	226.9
925.7	22.5°	924.5	911.7	781.4	526.7	352.5	278.4	243.5	227.6	218.7	209.0
1023.1	25°	1009.1	994.0	797.7	483.6	321.9	254.0	225.7	212.5	202.1	190.8
1150.6	27.5°	1127.4	1100.2	817.1	448.3	295.5	233.1	209.4	194.7	182.7	173.4
1295.3	30°	1259.2	1214.6	834.2	427.0	271.5	213.7	188.1	173.4	162.1	155.5
1425.2	32.5°	1384.1	1323.6	845.4	417.7	249.8	191.6	164.8	148.9	140.4	138.4
1552.4	35°	1502.0	1422.1	844.3	408.8	230.4	169.5	141.9	125.7	119.1	120.2
1689.3	37.5°	1637.7	1527.2	836.1	394.8	214.5	149.3	122.2	107.8	102.0	102.4
1855.7	40°	1795.6	1648.6	831.1	368.4	197.0	130.7	105.9	94.2	90.0	88.4
2031.0	42.5°	1963.9	1766.1	831.9	338.6	175.3	114.0	94.6	84.9	81.1	79.9
2226.0	45°	2133.0	1878.2	833.0	307.5	152.4	101.2	86.5	78.3	76.0	74.5
2423.8	47.5°	2292.0	1973.6	811.3	274.2	129.9	91.5	79.9	74.5	72.5	70.6
2622.4	50°	2440.1	2037.2	759.0	235.4	112.1	83.8	74.8	71.0	69.0	67.1
2802.3	52.5°	2555.3	2047.3	672.5	195.5	99.7	78.0	71.7	68.3	65.9	64.0
2947.8	55°	2606.5	1984.1	549.5	158.2	90.0	72.9	68.6	65.2	62.4	60.5
3062.2	57.5°	2593.3	1851.0	428.5	127.2	80.7	67.9	64.8	62.4	59.3	56.2
3154.9	60°	2528.5	1673.0	323.0	105.9	72.1	62.4	60.5	58.6	54.3	49.6
3190.5	62.5°	2416.5	1449.3	230.4	87.6	62.8	56.2	55.5	53.9	47.7	39.2
3137.8	65°	2245.0	1177.4	155.1	72.9	53.9	49.3	49.6	46.9	38.8	29.1
2944.7	67.5°	1994.5	860.9	99.3	59.7	45.0	41.1	41.5	39.9	33.0	24.8
2578.6	70°	1675.4	570.1	64.8	45.4	36.1	31.8	34.1	34.5	27.9	20.2
1979.0	72.5°	1228.2	336.6	45.4	33.7	26.4	22.1	27.9	28.7	22.5	15.1
1190.6	75°	700.0	159.8	34.1	24.4	16.3	15.5	21.7	21.7	15.5	10.1
515.4	77.5°	294.0	66.7	24.0	15.9	9.3	8.9	14.7	13.6	7.8	4.7
125.7	80°	84.9	29.9	12.8	7.8	3.9	3.5	5.8	4.3	1.9	0.8
47.7	82.5°	33.4	13.2	5.0	3.1	1.6	1.6	0.8	0.0	0.0	0.0
27.1	85°	19.8	5.4	2.3	1.2	0.4	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	5.0	1.2	0.8	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>
672.9
668.2
639.5
557.7
442.9
345.5
289.3
250.1
225.3
207.5
189.6
171.4
154.3
139.6
120.2
103.9
88.0
79.5
74.5
70.6
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