

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: P939296

Luminaire Tested: **GALN-SB1D-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939296  
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-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

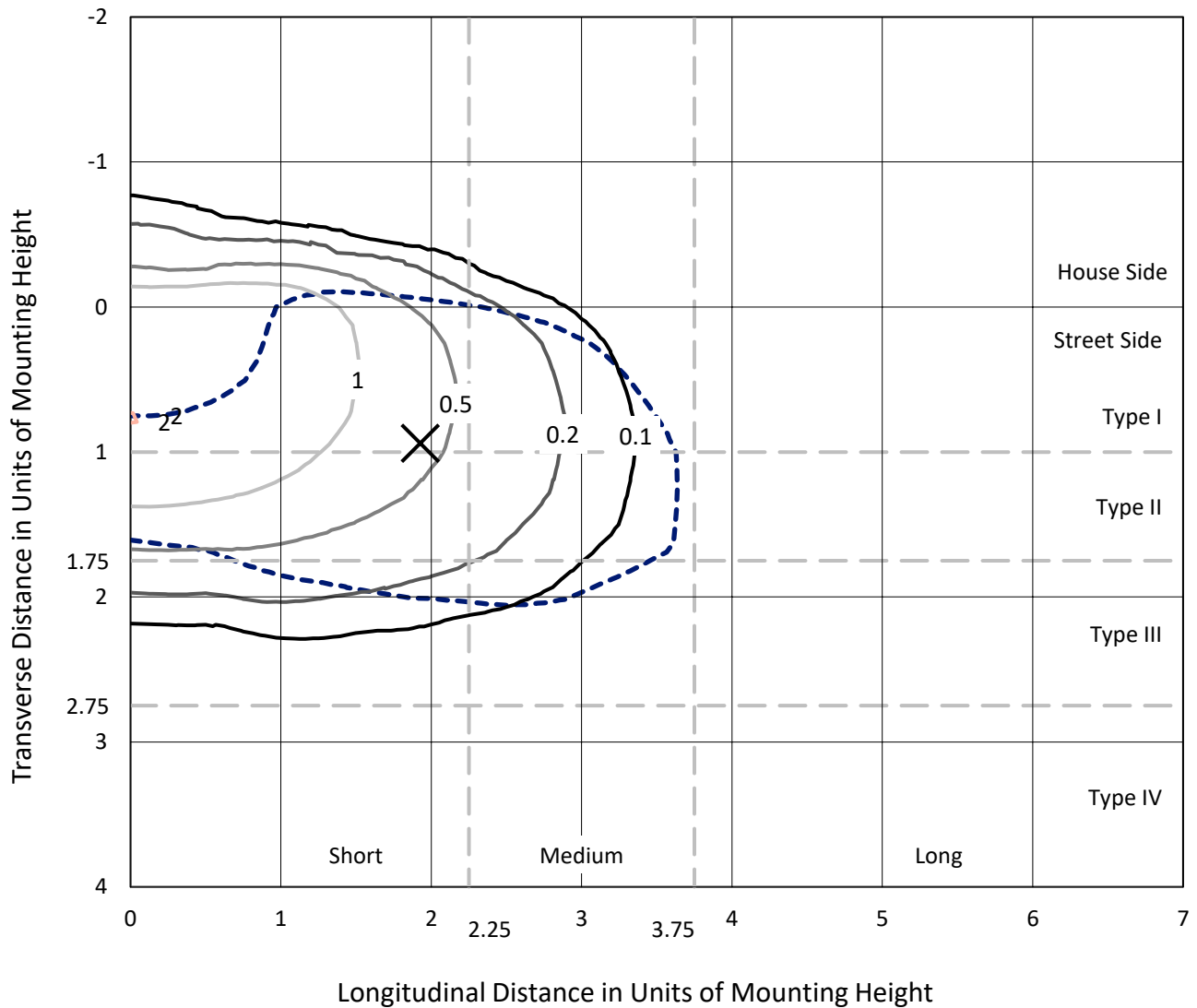
Lumens per Lamp: N/A  
Luminaire Lumens: 6942 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

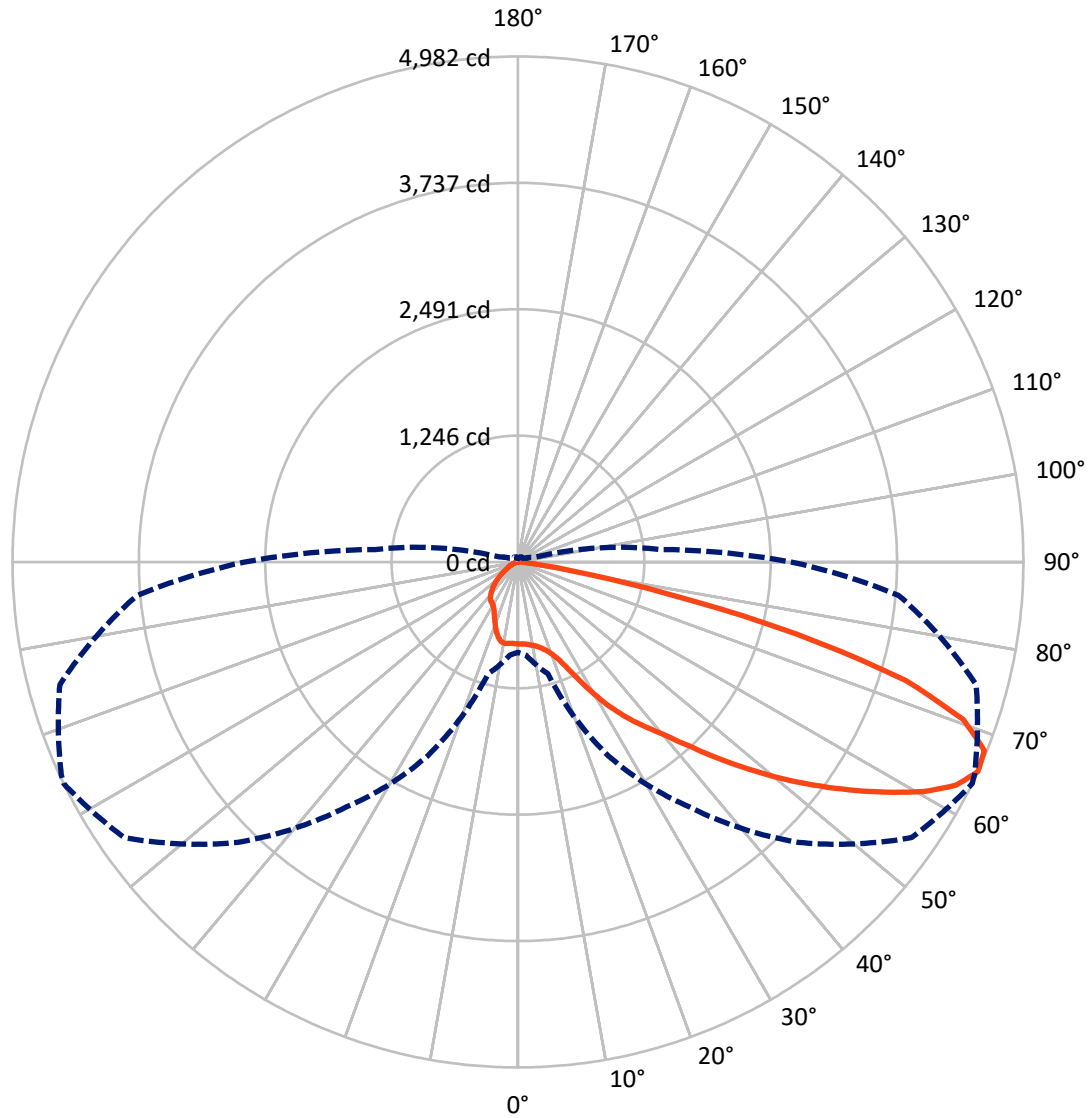
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	928.4	0.0	928.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	6013.6	0.0	6013.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	6942.0	0.0	6942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.1
10°-20°	202.0	2.9
20°-30°	382.9	5.5
30°-40°	774.7	11.2
40°-50°	1319.8	19.0
50°-60°	1794.8	25.9
60°-70°	1685.4	24.3
70°-80°	675.2	9.7
80°-90°	32.7	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°	6942.0	100.0
0°-180°	6942.0	100.0

**Coefficient of Utilization**



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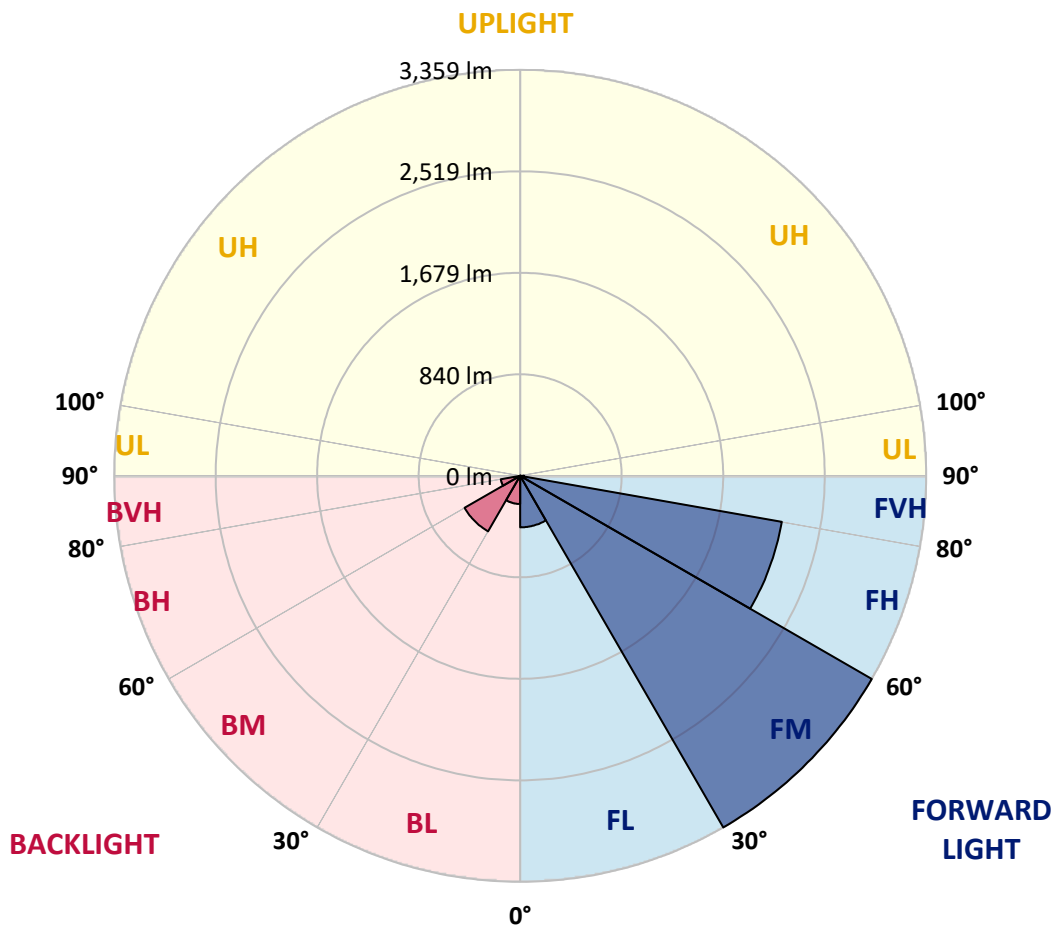
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.3	6.1			
FM (30°-60°)	3358.5	48.4			
FH (60°-80°)	2197.7	31.7			G2/5000
FVH (80°-90°)	31.1	0.4			G1/100
BL (0°-30°)	233.1	3.4	B1/500		
BM (30°-60°)	530.7	7.6	B1/1000		
BH (60°-80°)	162.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	804.6	810.2	808.8	807.4	807.0	807.9	808.4	807.9	807.9	807.9
5°	789.3	793.9	793.9	797.2	801.8	807.4	811.6	812.5	813.5	814.9
7.5°	760.0	763.7	766.5	777.2	788.8	803.7	816.3	822.8	823.7	828.8
10°	739.9	744.6	749.3	760.4	777.2	799.5	820.9	836.7	839.1	851.2
12.5°	739.0	743.7	749.7	761.8	781.4	805.1	831.2	854.0	858.2	875.8
15°	748.8	754.4	760.0	774.9	795.8	824.6	852.6	881.0	885.1	910.3
17.5°	768.8	776.2	780.4	795.3	817.7	849.8	886.5	919.1	922.8	952.2
20°	808.4	817.2	818.6	830.7	852.6	887.0	930.8	971.2	975.9	1009.4
22.5°	890.3	902.8	891.7	897.7	917.3	951.7	999.2	1050.4	1056.9	1095.0
25°	1034.5	1052.2	1023.4	1013.1	1021.5	1057.3	1116.9	1181.6	1189.0	1219.7
27.5°	1317.9	1295.1	1251.4	1208.6	1183.5	1203.9	1270.9	1351.0	1360.3	1390.1
30°	1629.3	1609.3	1550.2	1455.2	1395.7	1392.4	1454.3	1543.7	1554.4	1582.7
32.5°	1941.1	1922.0	1857.8	1741.0	1637.7	1586.5	1629.3	1728.4	1734.0	1752.1
35°	2247.8	2228.2	2164.0	2044.4	1917.3	1801.0	1792.6	1904.3	1906.2	1925.3
37.5°	2556.3	2540.0	2471.6	2354.3	2229.1	2068.6	1990.9	2070.9	2073.2	2091.9
40°	2776.4	2783.4	2736.4	2645.7	2538.2	2362.7	2213.3	2248.2	2234.3	2265.4
42.5°	2965.4	2979.3	2938.4	2892.8	2830.4	2675.9	2488.8	2482.8	2460.4	2477.2
45°	3128.7	3140.4	3103.6	3092.9	3091.5	2983.1	2789.9	2753.6	2722.4	2719.2
47.5°	3188.8	3211.1	3226.9	3262.7	3332.6	3286.9	3101.3	3045.0	3010.0	2984.5
50°	3211.6	3235.3	3289.3	3393.5	3558.7	3578.3	3411.2	3347.9	3305.1	3258.6
52.5°	3180.8	3223.2	3295.8	3471.2	3710.9	3811.9	3708.6	3653.2	3604.3	3528.5
55°	2999.8	3042.2	3190.6	3470.3	3786.8	3975.7	3989.7	3965.0	3910.1	3790.5
57.5°	2618.2	2681.0	2916.0	3352.1	3785.4	4116.7	4265.2	4282.9	4221.4	4050.2
60°	2089.5	2174.7	2461.4	3090.1	3668.6	4193.0	4506.7	4595.1	4530.0	4306.1
62.5°	1458.0	1556.7	1828.0	2679.6	3401.4	4138.1	4683.1	4846.4	4797.1	4535.1
65°	889.3	921.0	1139.7	2108.6	2947.2	3908.2	4737.5	4982.3	4966.0	4675.2
67.5°	592.4	618.9	681.8	1445.9	2287.8	3448.9	4607.2	4958.6	4963.2	4652.4
70°	356.9	379.7	420.7	840.9	1482.7	2729.9	4203.7	4656.1	4683.1	4347.5
72.5°	147.1	162.4	199.6	381.1	767.9	1732.6	3347.4	3997.6	4060.4	3655.5
75°	83.3	91.2	117.3	191.3	333.2	807.4	2027.6	2837.9	2930.5	2519.5
77.5°	55.4	59.1	75.9	123.8	187.5	275.5	866.5	1478.5	1655.3	1376.1
80°	37.2	40.5	52.1	82.8	121.9	118.2	276.0	547.7	673.9	472.8
82.5°	25.1	25.6	37.2	54.4	77.3	57.2	81.4	170.3	214.1	136.8
85°	14.4	14.0	27.5	31.6	34.4	23.7	24.7	51.2	67.0	57.7
87.5°	1.9	2.8	10.7	8.4	4.7	5.1	5.1	8.8	13.0	14.0
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°
807.4	0°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
808.4	2.5°	808.4	807.9	806.5	805.1	801.8	800.0	800.9	800.0	799.5	800.0
814.4	5°	814.4	813.0	809.3	804.6	798.1	790.2	785.1	777.6	770.7	766.5
830.7	7.5°	830.7	829.3	824.2	811.1	790.2	757.2	726.9	700.4	680.4	668.7
856.8	10°	856.8	854.4	846.5	817.7	762.8	690.6	630.6	580.8	548.2	532.9
887.5	12.5°	887.5	884.7	870.7	811.6	710.6	598.0	515.2	459.8	429.5	416.0
922.8	15°	923.8	920.0	892.6	782.8	634.8	495.6	419.8	378.4	358.8	346.7
968.0	17.5°	968.9	962.4	908.9	739.5	552.4	417.4	361.1	330.0	312.7	301.1
1027.1	20°	1027.5	1016.8	921.9	687.8	476.5	368.1	321.6	295.5	282.5	272.2
1110.9	22.5°	1109.5	1094.1	937.7	632.0	423.0	334.1	292.3	273.2	262.5	250.8
1227.7	25°	1210.9	1192.8	957.3	580.3	386.3	304.8	270.8	255.0	242.5	229.0
1380.8	27.5°	1352.8	1320.3	980.5	538.0	354.6	279.7	251.3	233.6	219.2	208.0
1554.4	30°	1511.1	1457.6	1001.0	512.4	325.8	256.4	225.7	208.0	194.5	186.6
1710.3	32.5°	1660.9	1588.3	1014.5	501.2	299.7	229.9	197.8	178.7	168.5	166.1
1862.9	35°	1802.4	1706.5	1013.1	490.5	276.4	203.4	170.3	150.8	142.9	144.3
2027.2	37.5°	1965.3	1832.6	1003.3	473.8	257.4	179.2	146.6	129.4	122.4	122.9
2226.8	40°	2154.7	1978.3	997.3	442.1	236.4	156.8	127.0	113.1	108.0	106.1
2437.2	42.5°	2356.7	2119.3	998.2	406.3	210.3	136.8	113.6	101.9	97.3	95.9
2671.3	45°	2559.6	2253.8	999.6	369.0	182.9	121.5	103.8	94.0	91.2	89.4
2908.6	47.5°	2750.4	2368.3	973.6	329.0	155.9	109.8	95.9	89.4	87.0	84.7
3146.9	50°	2928.1	2444.6	910.7	282.5	134.5	100.5	89.8	85.2	82.8	80.5
3362.8	52.5°	3066.4	2456.7	807.0	234.5	119.6	93.5	86.1	81.9	79.1	76.8
3537.3	55°	3127.8	2380.9	659.4	189.9	108.0	87.5	82.4	78.2	74.9	72.6
3674.6	57.5°	3112.0	2221.2	514.2	152.6	96.8	81.4	77.7	74.9	71.2	67.5
3785.8	60°	3034.2	2007.6	387.7	127.0	86.6	74.9	72.6	70.3	65.2	59.6
3828.6	62.5°	2899.8	1739.1	276.4	105.2	75.4	67.5	66.5	64.7	57.2	47.0
3765.4	65°	2694.1	1412.9	186.2	87.5	64.7	59.1	59.6	56.3	46.5	34.9
3533.6	67.5°	2393.4	1033.1	119.1	71.7	54.0	49.3	49.8	47.9	39.6	29.8
3094.3	70°	2010.4	684.1	77.7	54.4	43.3	38.2	41.0	41.4	33.5	24.2
2374.8	72.5°	1473.8	403.9	54.4	40.5	31.6	26.5	33.5	34.4	27.0	18.1
1428.7	75°	840.0	191.7	41.0	29.3	19.5	18.6	26.1	26.1	18.6	12.1
618.5	77.5°	352.8	80.0	28.9	19.1	11.2	10.7	17.7	16.3	9.3	5.6
150.8	80°	101.9	35.8	15.4	9.3	4.7	4.2	7.0	5.1	2.3	0.9
57.2	82.5°	40.0	15.8	6.0	3.7	1.9	1.9	0.9	0.0	0.0	0.0
32.6	85°	23.7	6.5	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	6.0	1.4	0.9	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>
807.4
801.8
767.4
669.2
531.5
414.6
347.2
300.2
270.4
249.0
227.6
205.7
185.2
167.5
144.3
124.7
105.6
95.4
89.4
84.7
80.5
76.3
72.1
67.0
58.6
46.1
34.0
28.4
23.3
17.2
11.2
5.6
0.9
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