

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: P945706

Luminaire Tested: **GALN-SB1C-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945706  
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-SB1C-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

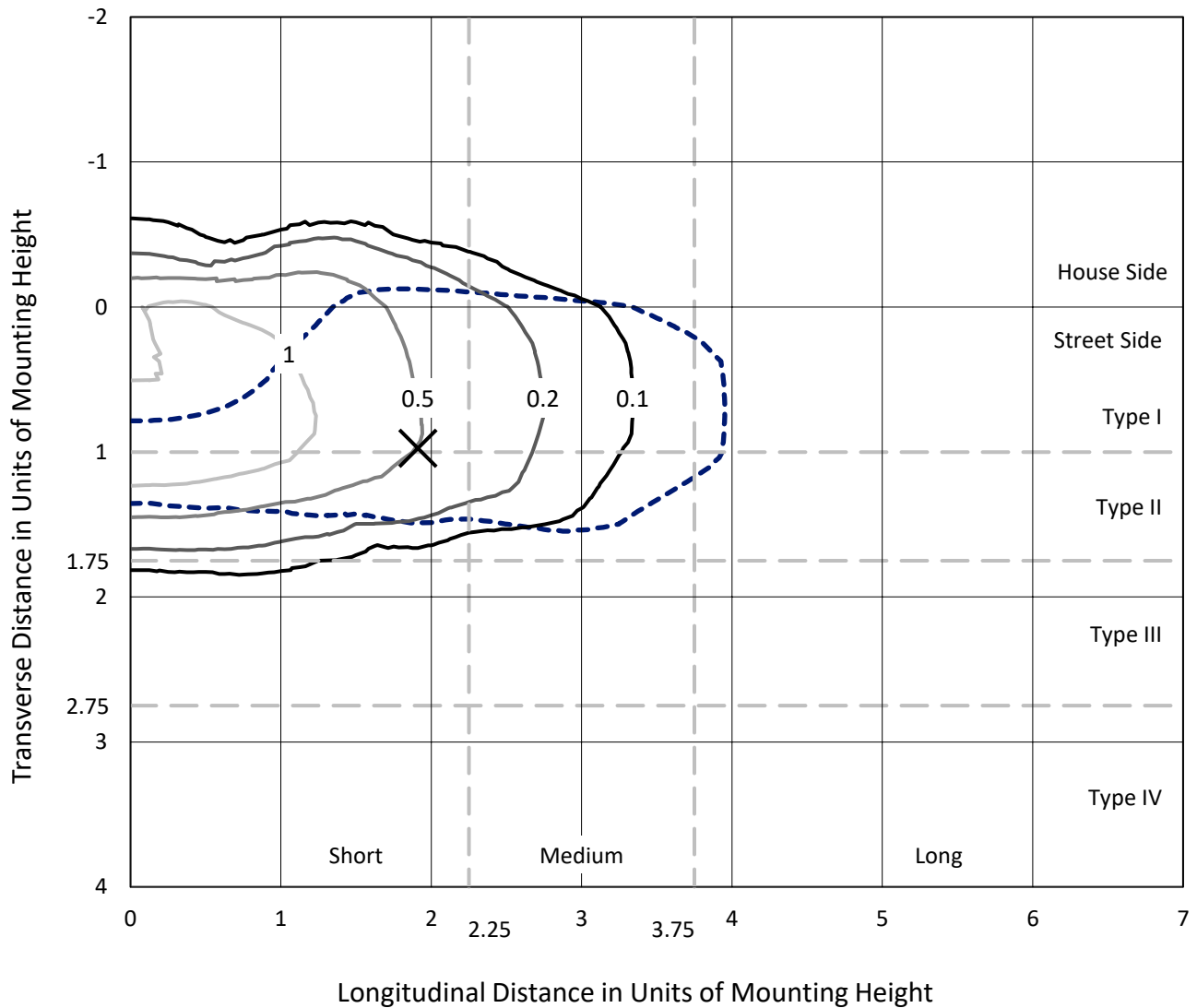
Lumens per Lamp: N/A  
Luminaire Lumens: 4979 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

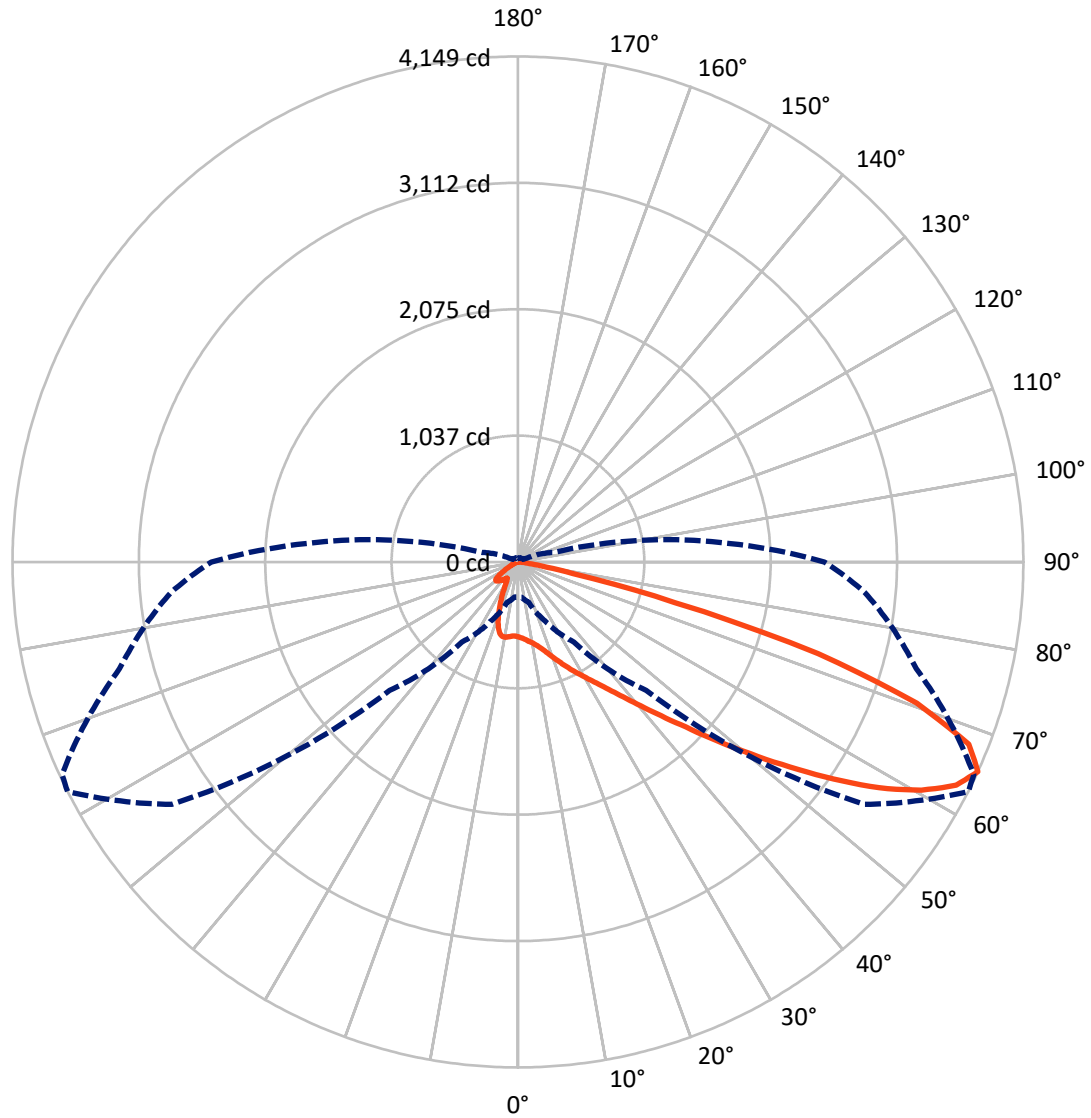
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type 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	731.9	0.0	731.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	4247.1	0.0	4247.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	4979.0	0.0	4979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.9	1.2
10°-20°	160.6	3.2
20°-30°	279.7	5.6
30°-40°	504.2	10.1
40°-50°	999.9	20.1
50°-60°	1362.1	27.4
60°-70°	1087.2	21.8
70°-80°	492.0	9.9
80°-90°	35.4	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°	4979.0	100.0
0°-180°	4979.0	100.0

**Coefficient of Utilization**



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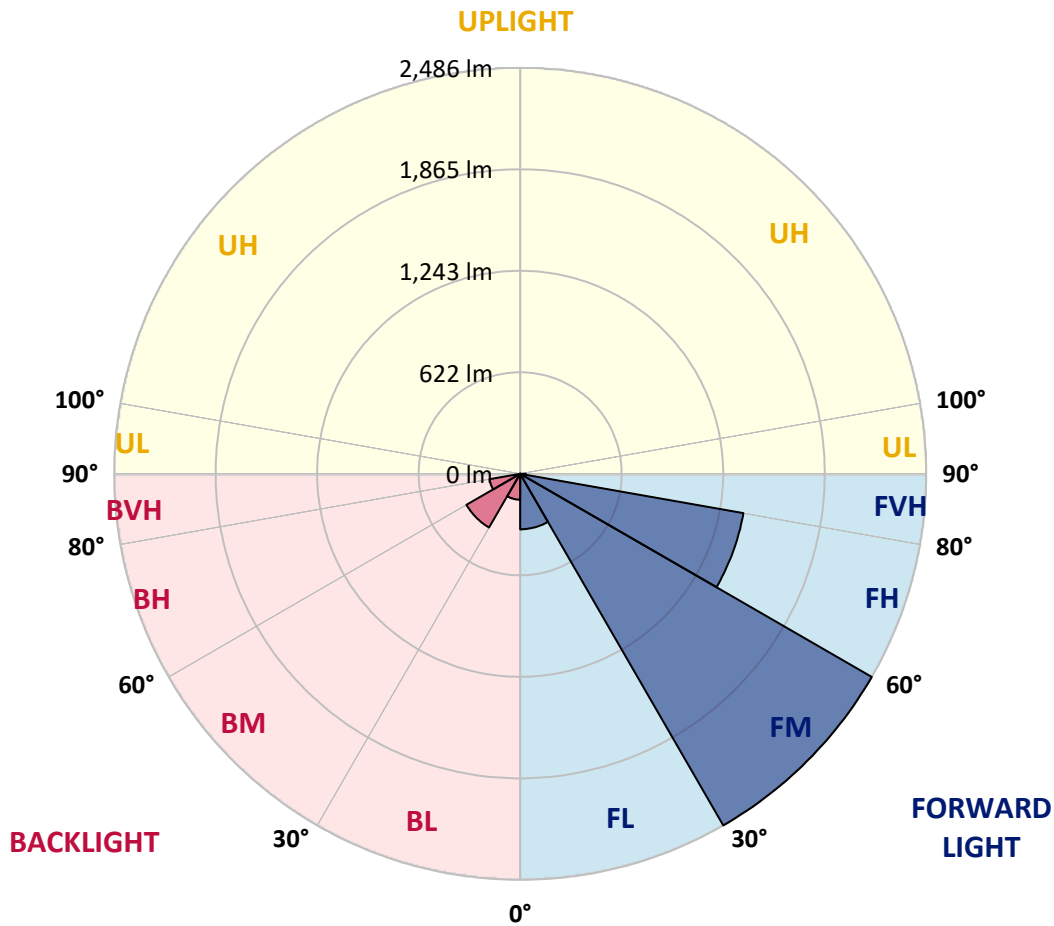
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.9	6.8			
FM (30°-60°)	2486.4	49.9			
FH (60°-80°)	1388.1	27.9			G1/1800
FVH (80°-90°)	32.7	0.7			G1/100
BL (0°-30°)	158.4	3.2	B1/500		
BM (30°-60°)	379.8	7.6	B1/1000		
BH (60°-80°)	191.1	3.8	B1/500		G1/500
BVH (80°-90°)	2.6	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5
2.5°	628.9	627.2	629.6	628.5	627.9	626.5	625.8	625.1	623.8	622.7
5°	630.6	629.6	632.0	634.0	636.1	638.1	639.2	640.5	639.2	636.4
7.5°	616.2	615.5	620.7	626.8	636.1	644.0	652.5	657.3	657.7	656.6
10°	615.2	613.5	618.6	626.1	638.1	652.2	667.3	677.5	678.9	683.4
12.5°	631.3	629.6	636.8	645.0	657.3	672.0	690.5	704.9	707.0	713.2
15°	658.3	655.9	664.2	674.8	690.5	707.3	726.9	739.9	741.6	749.1
17.5°	689.9	687.5	697.1	708.4	725.5	748.4	771.0	785.4	787.5	792.3
20°	730.3	727.2	734.7	745.0	763.2	790.6	817.6	838.2	837.8	837.8
22.5°	777.2	772.4	778.9	787.1	804.3	837.5	873.5	897.8	897.8	888.2
25°	827.6	822.8	830.0	837.5	852.6	890.2	932.4	962.5	963.9	947.4
27.5°	890.6	884.4	889.9	898.8	907.7	946.1	996.1	1031.0	1031.7	1006.4
30°	1011.8	994.4	977.2	967.7	971.8	1009.8	1063.2	1101.9	1105.4	1070.4
32.5°	1233.8	1230.4	1170.1	1091.3	1050.2	1078.3	1138.2	1184.8	1186.9	1142.0
35°	1578.7	1574.6	1477.7	1327.7	1193.7	1170.1	1229.3	1284.5	1283.1	1232.4
37.5°	1990.5	1986.7	1858.9	1658.2	1441.4	1308.8	1346.8	1404.7	1413.3	1346.8
40°	2342.2	2328.2	2247.4	2053.8	1770.2	1539.0	1514.0	1552.4	1561.3	1482.5
42.5°	2608.7	2596.7	2555.6	2434.7	2168.2	1879.5	1710.9	1725.7	1735.6	1641.1
45°	2746.8	2744.0	2760.5	2749.2	2573.8	2297.4	1992.5	1931.2	1935.0	1816.8
47.5°	2766.3	2764.9	2839.9	2946.1	2922.5	2768.7	2353.9	2187.4	2174.1	2015.1
50°	2651.2	2648.5	2792.3	2991.3	3155.4	3164.7	2764.2	2476.2	2446.7	2220.3
52.5°	2283.7	2283.0	2519.3	2850.6	3237.3	3511.3	3169.8	2793.3	2744.0	2437.5
55°	1757.2	1769.9	2040.8	2432.3	3087.9	3678.1	3533.9	3145.5	3069.8	2656.0
57.5°	1244.8	1263.3	1531.1	1879.8	2624.8	3579.5	3780.2	3498.3	3416.8	2873.8
60°	668.6	685.1	953.3	1369.4	1952.8	3211.6	3910.0	3804.5	3727.4	3080.7
62.5°	398.4	403.8	514.8	884.1	1320.8	2453.6	3854.9	4037.8	3974.4	3254.4
65°	286.0	287.0	342.9	539.8	801.9	1490.7	3468.1	4149.4	4129.9	3385.2
67.5°	240.8	240.1	263.4	358.6	546.3	746.7	2658.0	3991.5	4074.4	3468.1
70°	206.5	207.6	235.0	262.7	410.7	422.7	1321.5	3475.3	3652.1	3490.1
72.5°	153.8	157.2	182.6	239.4	310.0	290.8	456.3	2576.9	2896.5	3288.3
75°	108.6	110.3	128.4	201.4	231.2	211.7	232.9	1332.1	1741.8	2521.0
77.5°	83.6	86.7	97.3	140.8	227.8	148.7	142.5	461.0	708.4	1522.9
80°	45.2	50.7	70.2	101.7	160.0	105.2	70.6	183.6	240.1	712.1
82.5°	23.3	26.0	49.0	73.3	91.1	91.8	34.9	76.4	99.0	219.9
85°	9.2	11.3	32.9	40.4	46.9	45.2	15.8	30.8	35.6	61.0
87.5°	2.1	3.4	12.0	9.2	8.9	9.6	3.8	7.2	6.9	7.2
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°
614.5	0°	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5
618.6	2.5°	618.3	616.9	613.1	609.0	604.2	601.5	599.8	599.4	597.0	595.3
632.3	5°	628.5	627.2	620.0	611.4	602.2	595.0	588.1	582.0	573.1	571.3
652.2	7.5°	649.1	645.3	633.7	622.0	604.6	583.7	558.3	529.2	503.2	495.3
678.6	10°	674.4	669.3	654.6	634.0	595.3	538.5	477.1	420.3	375.1	362.4
709.7	12.5°	703.2	698.8	679.2	641.2	556.6	453.5	359.7	289.1	245.3	234.3
743.0	15°	737.5	731.0	703.9	630.3	487.4	344.6	247.0	205.2	189.4	187.4
781.0	17.5°	773.8	763.2	725.8	590.9	394.3	244.9	190.8	178.8	172.0	169.9
819.3	20°	807.0	793.3	738.8	531.3	294.6	190.8	170.9	163.0	156.9	154.5
857.7	22.5°	840.2	820.7	738.8	450.1	220.9	169.2	156.9	149.7	142.5	139.4
898.8	25°	874.8	848.8	725.8	359.7	177.8	155.2	143.5	135.6	129.5	125.7
937.9	27.5°	908.4	872.4	696.0	274.0	158.2	142.8	131.2	123.7	117.8	115.1
980.3	30°	940.3	895.7	654.2	207.9	145.6	130.8	119.9	113.4	107.6	104.8
1035.5	32.5°	983.4	925.2	609.7	170.6	134.6	119.5	109.6	103.4	98.3	96.3
1107.1	35°	1043.4	968.7	571.3	167.5	125.4	110.3	100.4	94.5	89.4	87.7
1199.5	37.5°	1128.3	1038.9	551.1	188.1	117.8	102.1	92.8	86.7	81.9	80.5
1317.0	40°	1233.1	1134.1	562.1	208.6	112.7	94.9	86.0	79.8	75.7	74.0
1452.0	42.5°	1357.5	1251.6	622.7	224.4	109.3	88.7	79.5	72.6	69.9	69.2
1605.1	45°	1500.3	1380.7	715.5	241.1	103.8	82.9	73.0	67.8	65.8	65.4
1771.6	47.5°	1662.7	1522.6	823.1	262.0	98.3	77.4	67.8	64.4	62.7	62.0
1945.2	50°	1823.6	1665.4	933.7	273.7	93.9	72.3	63.7	61.0	59.6	59.3
2128.8	52.5°	1992.2	1812.3	1023.1	262.7	90.1	68.2	60.3	58.2	56.9	56.5
2298.0	55°	2152.8	1931.2	1038.6	223.0	82.6	64.1	56.5	55.5	53.8	53.8
2469.7	57.5°	2291.2	1990.8	929.6	163.7	75.0	57.9	52.7	51.7	50.4	50.0
2624.5	60°	2418.3	1973.7	717.6	110.3	66.8	51.7	48.0	47.3	45.9	44.2
2759.1	62.5°	2489.9	1898.3	490.8	71.9	58.6	45.2	42.5	42.1	39.0	35.6
2858.8	65°	2516.9	1743.5	306.2	52.4	49.0	38.7	36.7	36.0	31.5	27.7
2915.3	67.5°	2493.3	1488.6	154.5	41.4	38.7	32.2	30.1	30.1	27.1	23.6
2911.9	70°	2398.8	1116.0	65.1	33.2	29.8	24.7	24.7	26.0	22.9	19.2
2760.8	72.5°	2193.6	750.8	34.6	25.3	22.3	17.5	20.2	21.2	18.2	14.4
2259.7	75°	1743.8	458.0	24.0	18.8	14.0	12.3	15.4	16.1	12.3	9.6
1549.3	77.5°	1192.7	263.1	16.1	12.0	8.9	7.2	10.6	9.9	6.5	4.5
597.4	80°	523.7	109.6	9.2	5.5	3.4	2.7	3.8	2.7	2.1	1.4
81.9	82.5°	61.3	25.7	3.4	2.1	1.4	0.7	0.3	0.0	0.0	0.0
25.0	85°	12.7	3.1	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	2.4	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>
614.5
597.0
570.7
491.5
357.6
231.2
185.3
168.9
153.1
137.7
124.3
115.1
105.2
96.3
87.7
80.2
73.6
69.2
65.1
62.0
59.3
56.5
53.4
49.7
43.8
34.9
27.4
23.3
18.8
14.4
9.2
4.8
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