

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: P945624

Luminaire Tested: **GALN-SB1C-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

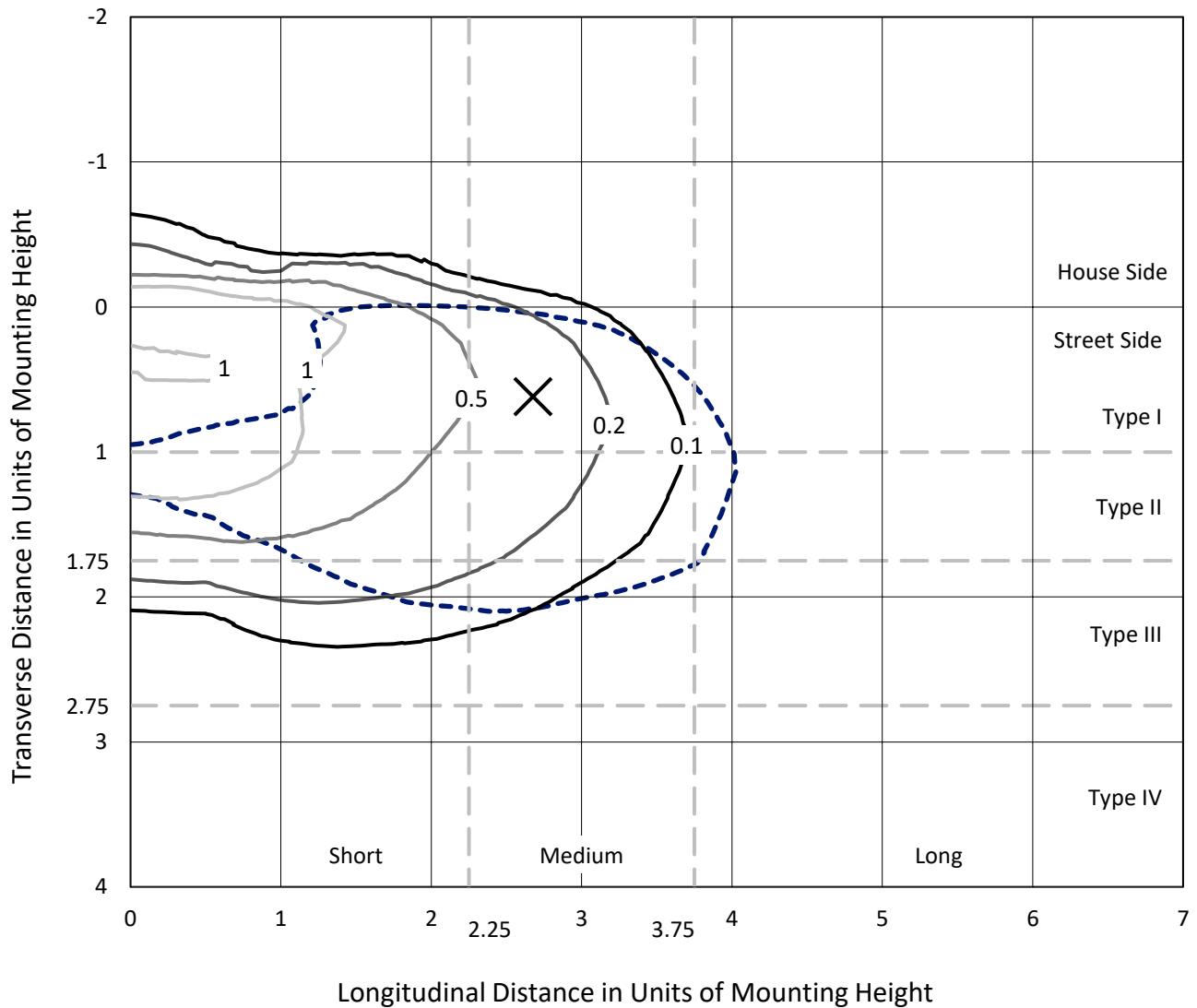
Lumens per Lamp: N/A  
Luminaire Lumens: 6237 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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

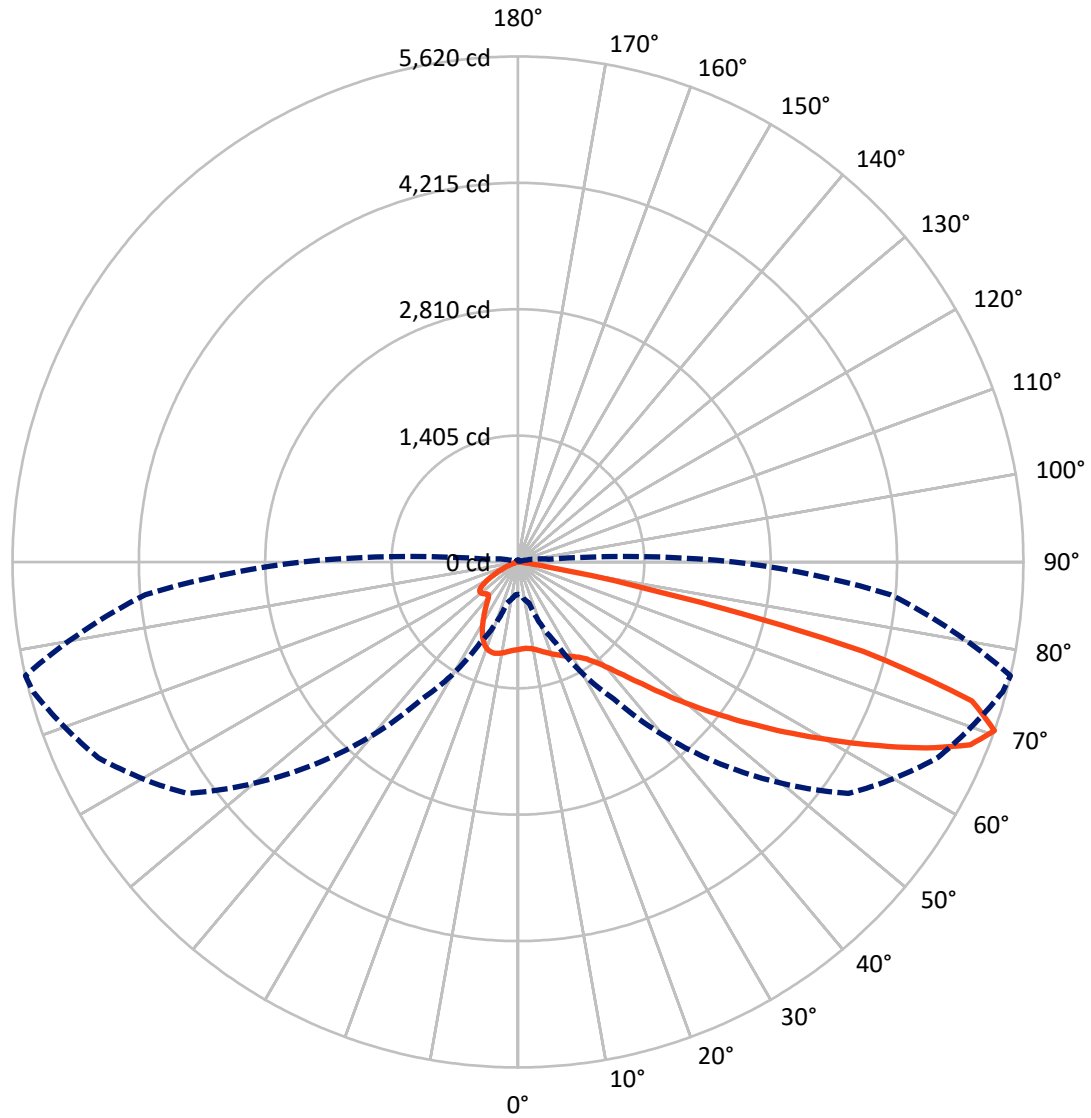
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	657.5	0.0	657.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5579.5	0.0	5579.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6237.0	0.0	6237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	1.3
10°-20°	199.0	3.2
20°-30°	307.9	4.9
30°-40°	558.6	9.0
40°-50°	1054.5	16.9
50°-60°	1523.6	24.4
60°-70°	1621.9	26.0
70°-80°	859.5	13.8
80°-90°	28.2	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°	6237.0	100.0
0°-180°	6237.0	100.0

**Coefficient of Utilization**



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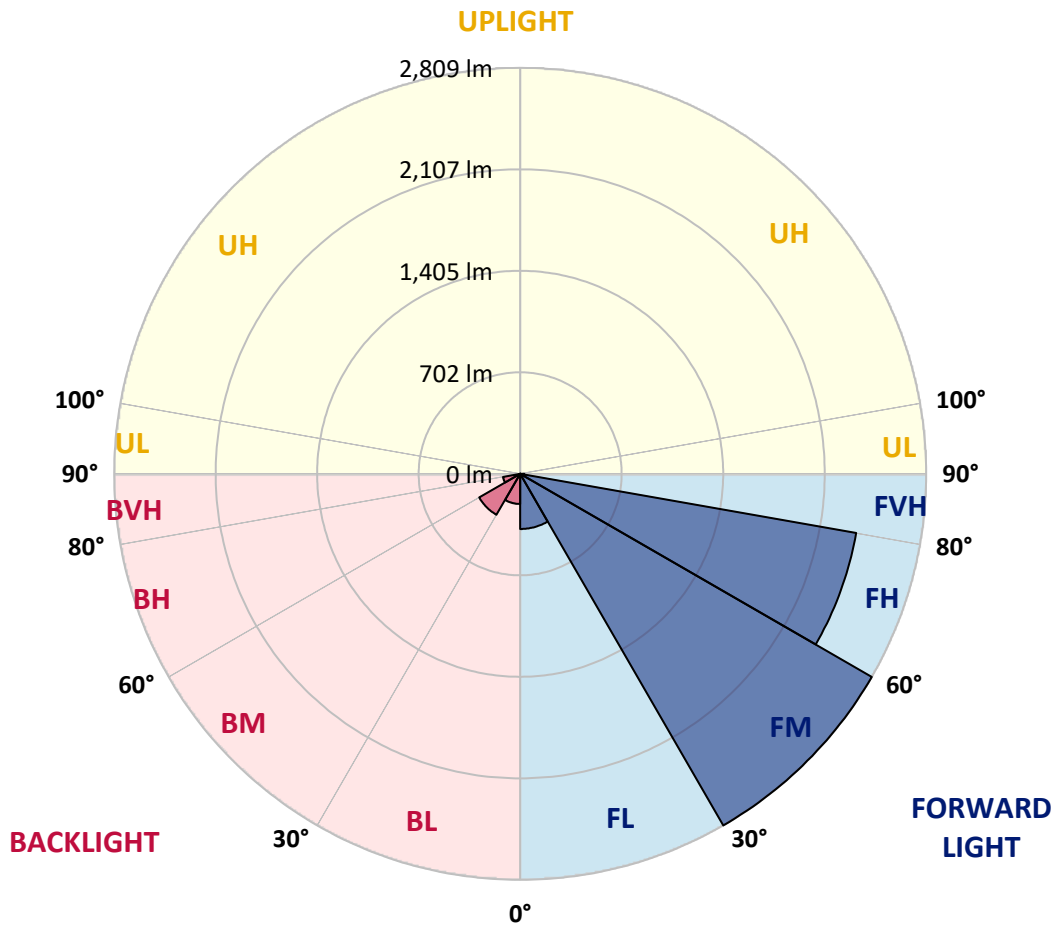
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.9	6.1			
FM (30°-60°)	2809.4	45.0			
FH (60°-80°)	2360.8	37.9			G2/5000
FVH (80°-90°)	27.5	0.4			G1/100
BL (0°-30°)	208.9	3.3	B1/500		
BM (30°-60°)	327.3	5.2	B1/1000		
BH (60°-80°)	120.5	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
2.5°	913.4	921.7	920.5	926.0	928.0	935.8	943.7	954.3	966.2	965.8
5°	861.8	870.1	872.0	879.5	889.0	901.2	917.3	938.6	960.6	964.2
7.5°	800.7	809.4	814.5	829.5	846.8	872.0	898.4	929.5	966.2	971.3
10°	739.7	747.6	754.3	775.5	803.1	840.5	883.5	928.4	977.6	985.1
12.5°	701.9	709.4	716.8	735.4	769.6	815.3	873.6	933.9	996.5	1007.1
15°	688.5	695.2	701.1	717.6	749.5	801.5	871.6	945.3	1020.5	1034.7
17.5°	690.5	694.0	697.9	710.5	741.7	795.2	875.2	965.0	1048.9	1061.5
20°	701.9	703.8	704.2	712.9	740.5	794.4	882.3	983.9	1075.7	1092.6
22.5°	716.4	717.2	716.4	722.4	748.0	800.3	891.7	1006.7	1105.6	1121.3
25°	784.6	769.6	750.7	739.3	760.6	811.8	905.9	1037.5	1138.3	1153.6
27.5°	996.1	953.2	885.4	809.4	786.6	828.3	925.6	1068.6	1171.4	1185.2
30°	1339.6	1283.2	1168.2	996.9	870.1	863.0	951.2	1099.7	1206.4	1221.4
32.5°	1683.8	1670.0	1537.3	1300.2	1057.9	940.2	993.7	1141.8	1252.9	1264.7
35°	2032.0	2004.0	1895.3	1661.0	1347.4	1097.3	1064.6	1197.0	1314.0	1327.3
37.5°	2298.6	2281.7	2214.3	2021.3	1690.9	1339.9	1185.9	1282.4	1402.6	1417.5
40°	2534.2	2526.3	2503.4	2376.2	2074.9	1657.4	1374.6	1414.8	1525.5	1543.2
42.5°	2719.3	2737.8	2750.8	2715.3	2470.7	2019.8	1628.3	1600.7	1696.8	1714.9
45°	2908.7	2915.0	2967.4	3018.6	2863.8	2398.7	1914.2	1818.5	1909.9	1932.3
47.5°	3030.4	3055.6	3147.8	3238.0	3194.3	2774.4	2221.4	2075.7	2156.8	2199.0
50°	3039.5	3087.2	3214.0	3371.1	3434.9	3132.1	2555.4	2368.7	2455.0	2501.5
52.5°	2888.6	2962.7	3159.2	3389.3	3564.9	3434.9	2900.9	2661.8	2772.5	2833.1
55°	2214.7	2311.6	2953.2	3290.8	3570.0	3664.6	3237.2	2967.0	3126.1	3194.7
57.5°	1929.6	1978.4	2321.9	3119.8	3475.1	3757.1	3541.3	3257.7	3511.0	3596.0
60°	1605.4	1669.6	1947.3	2840.2	3346.3	3766.2	3809.9	3632.7	3928.1	4023.8
62.5°	1091.0	1160.7	1436.8	2359.7	3170.3	3761.9	4030.1	4018.7	4391.7	4494.5
65°	675.9	719.6	901.6	1926.8	2924.1	3766.6	4260.5	4487.4	4880.8	4985.2
67.5°	534.1	554.2	649.1	1479.4	2499.9	3660.2	4490.5	4928.1	5341.3	5424.0
70°	358.8	371.0	472.3	991.8	1859.9	3169.5	4486.2	5149.5	5578.4	5619.7
72.5°	189.1	198.5	276.1	459.3	1123.3	2252.9	3781.5	4884.8	5342.5	5280.2
75°	94.5	110.3	185.9	233.2	479.7	1256.4	2348.3	3851.3	4205.0	3963.9
77.5°	71.7	86.7	153.6	153.6	167.0	423.0	994.5	2100.5	1937.4	1613.3
80°	45.7	59.1	134.3	116.2	69.7	107.5	259.2	588.4	411.6	313.1
82.5°	26.8	38.6	111.9	76.8	39.0	39.8	73.3	125.3	106.7	83.1
85°	10.6	25.2	76.8	30.3	15.4	9.8	22.1	26.8	22.1	16.5
87.5°	0.0	5.9	13.4	0.0	1.2	0.8	1.6	2.0	2.0	1.6
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°
972.9	0°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
973.6	2.5°	977.2	978.0	980.3	980.7	975.2	968.1	965.4	964.2	959.5	959.1
979.9	5°	989.0	992.6	989.0	978.8	954.3	920.1	894.1	872.8	853.5	847.6
1001.6	7.5°	1012.6	1016.2	1005.6	965.4	903.9	835.8	774.3	731.0	692.0	677.5
1028.0	10°	1046.5	1051.2	1017.8	936.6	827.9	718.4	614.4	541.2	484.1	460.8
1063.8	12.5°	1089.1	1091.0	1024.5	892.9	729.1	572.7	425.4	347.0	296.2	277.3
1107.2	15°	1135.9	1133.2	1025.2	833.4	594.4	404.9	277.7	228.1	207.6	201.3
1150.5	17.5°	1185.2	1173.7	1009.5	747.6	446.6	276.9	206.0	194.2	190.6	189.1
1193.4	20°	1233.6	1208.0	980.7	635.3	320.6	206.8	187.1	183.5	181.6	180.8
1236.8	22.5°	1277.7	1234.0	931.5	504.9	232.8	182.8	176.8	173.7	170.2	168.6
1278.9	25°	1320.6	1249.0	862.2	383.2	186.3	170.9	166.2	160.3	155.6	153.6
1324.2	27.5°	1362.4	1258.4	775.5	283.6	166.2	159.9	151.2	143.0	139.4	138.6
1372.6	30°	1406.9	1261.6	677.1	211.5	154.0	146.1	133.5	124.1	122.1	122.5
1438.0	32.5°	1461.3	1266.3	577.8	173.3	143.8	129.6	114.6	104.8	103.2	104.8
1533.3	35°	1526.2	1275.7	482.1	159.5	134.7	112.6	96.5	88.2	86.7	87.8
1655.4	37.5°	1614.5	1291.1	392.7	156.8	127.2	98.5	81.1	74.4	74.4	74.8
1805.1	40°	1731.8	1332.1	312.7	154.8	123.3	87.8	68.5	65.8	67.0	67.7
1995.7	42.5°	1874.8	1419.1	258.8	152.4	118.9	83.1	62.2	61.0	63.0	63.8
2224.2	45°	2035.1	1529.4	239.9	148.5	115.0	86.3	59.5	57.9	60.3	60.7
2480.2	47.5°	2200.9	1637.3	237.5	144.2	111.1	91.0	58.7	55.1	57.9	58.3
2753.5	50°	2368.7	1707.8	239.9	137.5	104.8	91.0	59.1	52.4	54.7	55.9
3037.1	52.5°	2537.7	1740.1	238.3	122.9	93.7	85.5	59.1	50.0	52.4	53.2
3343.6	55°	2701.6	1733.8	214.3	101.2	79.6	75.6	57.5	48.1	49.6	50.0
3633.1	57.5°	2831.1	1646.0	169.8	78.8	64.6	63.0	52.4	45.7	46.9	46.5
3898.5	60°	2898.9	1453.0	121.3	60.7	50.8	49.6	46.1	42.5	43.3	41.4
4123.4	62.5°	2899.7	1197.8	81.1	48.1	40.6	39.4	39.4	38.2	37.4	33.5
4297.5	65°	2837.8	914.6	54.0	38.2	32.7	30.7	33.1	32.7	29.9	24.4
4350.7	67.5°	2697.6	599.5	41.0	29.9	25.2	24.0	26.4	27.6	25.6	20.5
4156.9	70°	2409.3	349.0	33.9	23.2	18.9	17.7	21.3	23.6	21.3	16.5
3553.1	72.5°	2001.3	188.3	27.6	17.3	13.0	11.8	16.9	19.3	16.9	12.2
2279.7	75°	1298.6	100.8	21.3	11.4	6.7	7.5	12.6	14.2	11.8	7.9
669.2	77.5°	436.0	44.5	13.4	5.5	3.2	3.2	7.5	8.7	5.5	2.8
121.7	80°	97.3	18.5	5.5	2.4	1.2	1.2	1.6	1.6	0.8	0.0
37.4	82.5°	31.9	7.5	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
9.5	85°	12.2	2.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	4.7	0.4	0.0	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>
972.9
959.9
844.1
671.5
451.0
271.4
201.3
188.7
180.0
168.2
152.8
137.9
122.5
104.4
87.4
74.4
67.7
63.8
61.0
58.7
56.3
53.2
50.0
46.5
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