

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: P945771

Luminaire Tested: **GALN-SB1C-840-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945771  
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-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

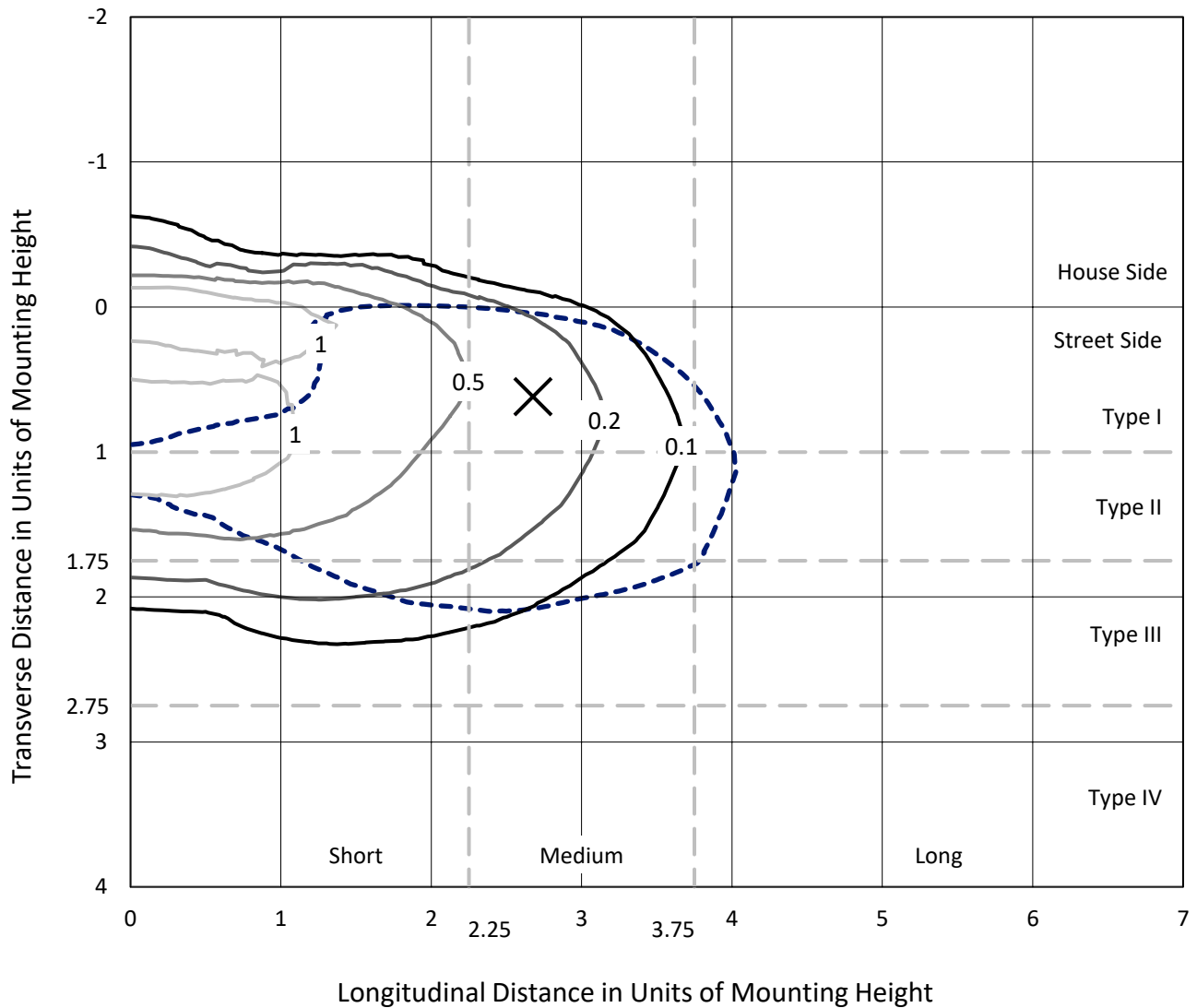
Lumens per Lamp: N/A  
Luminaire Lumens: 5966 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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

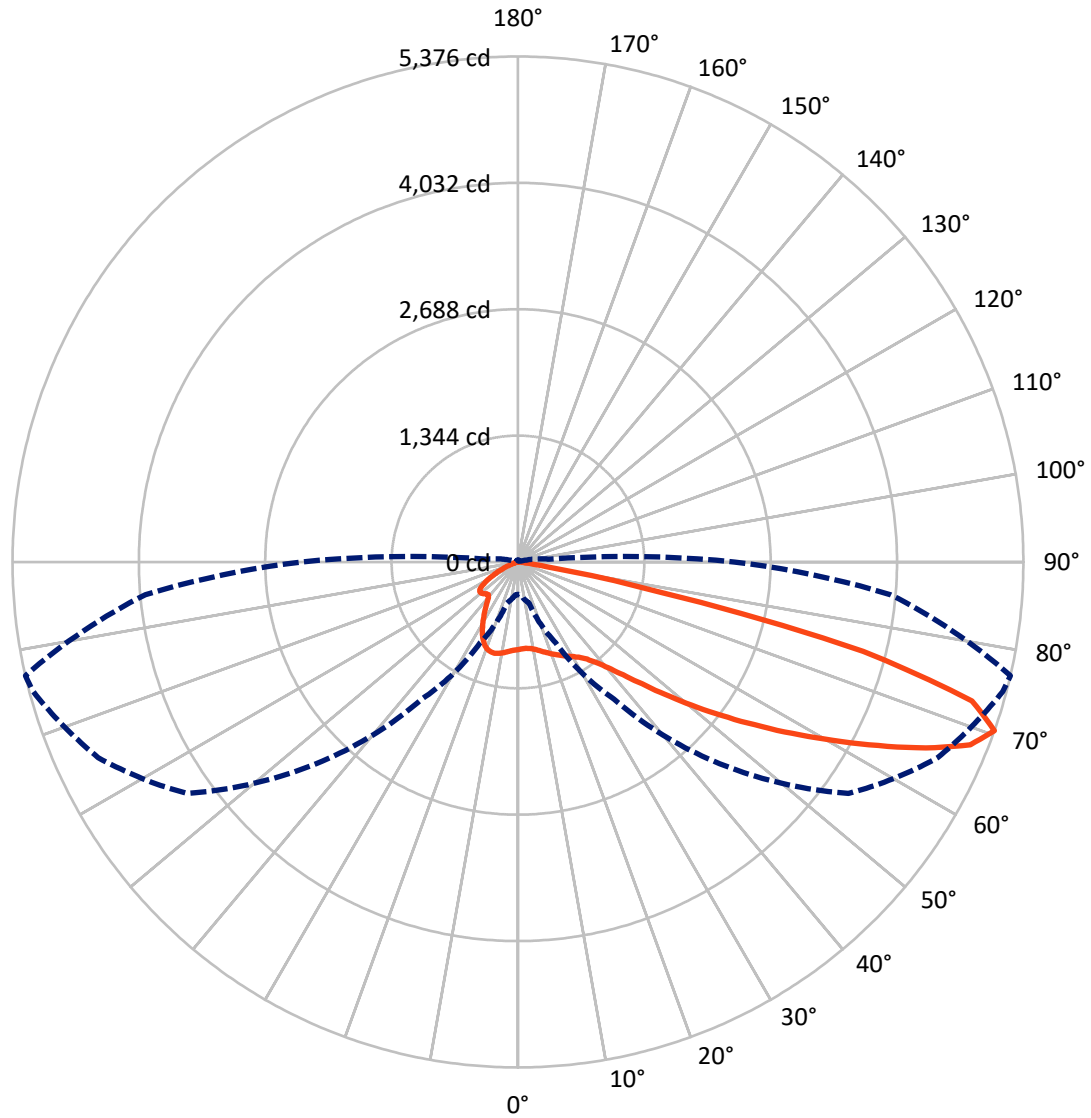
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	628.9	0.0	628.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5337.1	0.0	5337.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5966.0	0.0	5966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	1.3
10°-20°	190.4	3.2
20°-30°	294.5	4.9
30°-40°	534.4	9.0
40°-50°	1008.6	16.9
50°-60°	1457.4	24.4
60°-70°	1551.4	26.0
70°-80°	822.1	13.8
80°-90°	27.0	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°	5966.0	100.0
0°-180°	5966.0	100.0

**Coefficient of Utilization**



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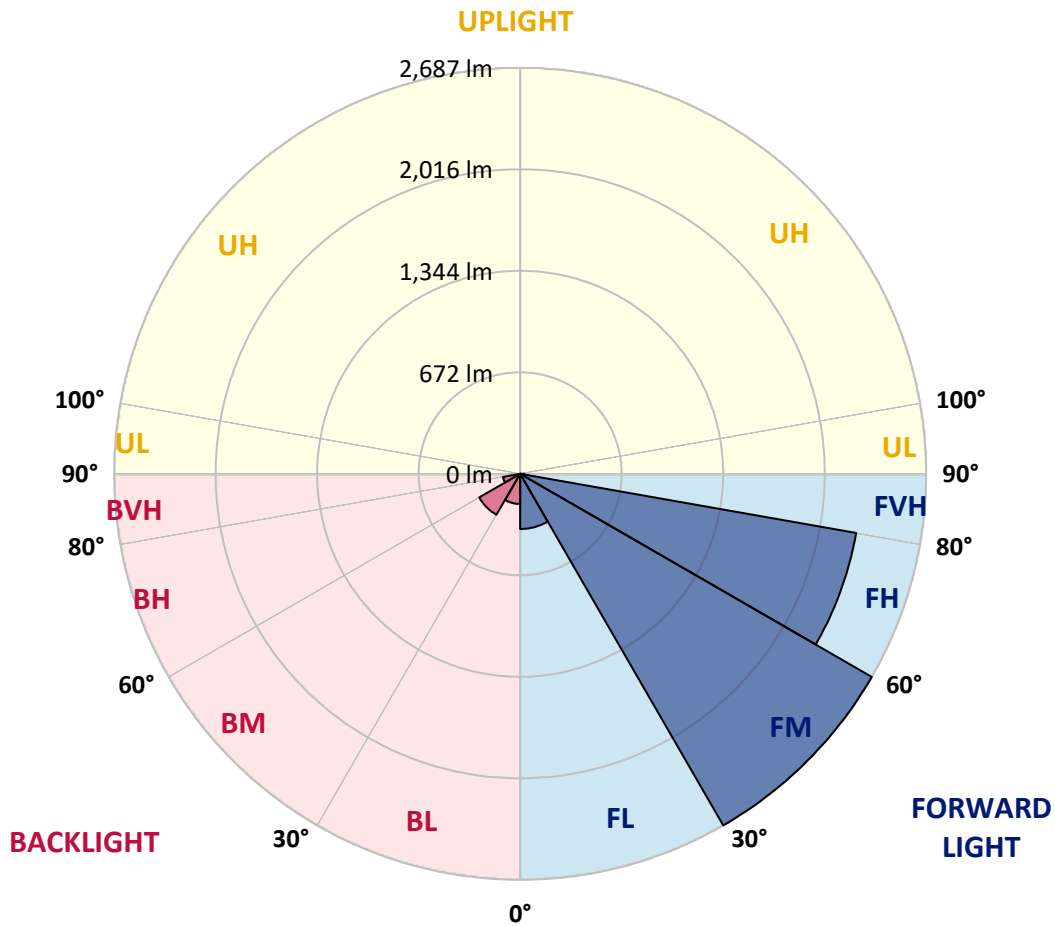
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.3	6.1			
FM (30°-60°)	2687.4	45.0			
FH (60°-80°)	2258.2	37.9			G2/5000
FVH (80°-90°)	26.3	0.4			G1/100
BL (0°-30°)	199.8	3.3	B1/500		
BM (30°-60°)	313.1	5.2	B1/1000		
BH (60°-80°)	115.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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°	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6
2.5°	873.7	881.6	880.5	885.8	887.6	895.2	902.7	912.9	924.2	923.8
5°	824.3	832.3	834.1	841.3	850.3	862.0	877.5	897.8	918.9	922.3
7.5°	765.9	774.2	779.1	793.4	810.0	834.1	859.4	889.1	924.2	929.1
10°	707.5	715.1	721.5	741.8	768.2	804.0	845.1	888.0	935.1	942.3
12.5°	671.4	678.5	685.7	703.4	736.2	779.9	835.6	893.3	953.2	963.4
15°	658.6	665.0	670.6	686.5	717.0	766.7	833.8	904.2	976.2	989.7
17.5°	660.5	663.8	667.6	679.7	709.4	760.7	837.2	923.1	1003.3	1015.4
20°	671.4	673.3	673.6	681.9	708.3	759.9	843.9	941.1	1028.9	1045.1
22.5°	685.3	686.1	685.3	691.0	715.5	765.6	853.0	963.0	1057.6	1072.6
25°	750.5	736.2	718.1	707.2	727.5	776.5	866.5	992.4	1088.8	1103.5
27.5°	952.8	911.8	846.9	774.2	752.4	792.3	885.4	1022.1	1120.5	1133.7
30°	1281.3	1227.5	1117.5	953.6	832.3	825.5	909.9	1051.9	1154.0	1168.3
32.5°	1610.6	1597.4	1470.5	1243.7	1012.0	899.3	950.6	1092.2	1198.5	1209.8
35°	1943.7	1916.9	1813.0	1588.8	1288.9	1049.6	1018.4	1145.0	1256.9	1269.7
37.5°	2198.8	2182.5	2118.1	1933.5	1617.4	1281.7	1134.4	1226.7	1341.6	1355.9
40°	2424.1	2416.5	2394.7	2273.0	1984.8	1585.4	1314.9	1353.3	1459.2	1476.1
42.5°	2601.1	2618.8	2631.3	2597.4	2363.4	1932.0	1557.5	1531.1	1623.1	1640.4
45°	2782.3	2788.4	2838.5	2887.5	2739.4	2294.4	1831.0	1739.5	1826.9	1848.4
47.5°	2898.8	2922.9	3011.0	3097.3	3055.5	2653.9	2124.9	1985.5	2063.1	2103.4
50°	2907.4	2953.0	3074.3	3224.7	3285.7	2996.0	2444.4	2265.8	2348.3	2392.8
52.5°	2763.1	2834.0	3022.0	3242.0	3410.0	3285.7	2774.8	2546.1	2652.0	2710.0
55°	2118.5	2211.2	2824.9	3147.8	3414.9	3505.3	3096.6	2838.1	2990.3	3055.9
57.5°	1845.7	1892.4	2221.0	2984.3	3324.1	3593.9	3387.4	3116.2	3358.4	3439.8
60°	1535.7	1597.1	1862.7	2716.8	3200.9	3602.5	3644.4	3474.8	3757.4	3848.9
62.5°	1043.6	1110.3	1374.4	2257.1	3032.5	3598.4	3855.0	3844.0	4200.8	4299.2
65°	646.5	688.3	862.4	1843.1	2797.0	3602.9	4075.4	4292.4	4668.8	4768.6
67.5°	510.9	530.1	620.9	1415.1	2391.3	3501.2	4295.4	4714.0	5109.2	5188.3
70°	343.2	354.9	451.7	948.7	1779.0	3031.8	4291.3	4925.7	5336.0	5375.6
72.5°	180.8	189.9	264.1	439.3	1074.5	2155.0	3617.2	4672.5	5110.3	5050.8
75°	90.4	105.5	177.8	223.0	458.9	1201.9	2246.2	3683.9	4022.3	3791.7
77.5°	68.6	82.9	146.9	146.9	159.7	404.6	951.3	2009.2	1853.3	1543.2
80°	43.7	56.5	128.5	111.1	66.7	102.9	247.9	562.9	393.7	299.5
82.5°	25.6	36.9	107.0	73.5	37.3	38.1	70.1	119.8	102.1	79.5
85°	10.2	24.1	73.5	29.0	14.7	9.4	21.1	25.6	21.1	15.8
87.5°	0.0	5.7	12.8	0.0	1.1	0.8	1.5	1.9	1.9	1.5
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°
930.6	0°	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6
931.3	2.5°	934.7	935.5	937.7	938.1	932.8	926.1	923.4	922.3	917.8	917.4
937.4	5°	946.0	949.4	946.0	936.2	912.9	880.1	855.2	834.9	816.4	810.8
958.1	7.5°	968.6	972.0	961.9	923.4	864.7	799.5	740.7	699.3	662.0	648.0
983.3	10°	1001.0	1005.6	973.5	895.9	791.9	687.2	587.7	517.7	463.0	440.8
1017.6	12.5°	1041.7	1043.6	979.9	854.1	697.4	547.8	406.9	331.9	283.3	265.2
1059.1	15°	1086.6	1083.9	980.7	797.2	568.5	387.3	265.6	218.1	198.6	192.5
1100.5	17.5°	1133.7	1122.7	965.6	715.1	427.2	264.9	197.0	185.7	182.4	180.8
1141.6	20°	1180.0	1155.5	938.1	607.7	306.7	197.8	179.0	175.6	173.7	172.9
1183.0	22.5°	1222.2	1180.4	891.0	483.0	222.7	174.8	169.2	166.1	162.8	161.3
1223.3	25°	1263.3	1194.7	824.7	366.6	178.2	163.5	159.0	153.3	148.8	146.9
1266.7	27.5°	1303.2	1203.7	741.8	271.3	159.0	153.0	144.7	136.8	133.4	132.6
1313.0	30°	1345.8	1206.8	647.6	202.3	147.3	139.8	127.7	118.7	116.8	117.2
1375.5	32.5°	1397.8	1211.3	552.7	165.8	137.5	124.0	109.6	100.2	98.7	100.2
1466.7	35°	1459.9	1220.3	461.1	152.6	128.9	107.8	92.3	84.4	82.9	84.0
1583.5	37.5°	1544.3	1235.0	375.6	149.9	121.7	94.2	77.6	71.2	71.2	71.6
1726.7	40°	1656.6	1274.2	299.1	148.1	117.9	84.0	65.6	62.9	64.0	64.8
1909.0	42.5°	1793.4	1357.5	247.5	145.8	113.8	79.5	59.5	58.4	60.3	61.0
2127.5	45°	1946.7	1462.9	229.4	142.0	110.0	82.5	56.9	55.4	57.6	58.0
2372.4	47.5°	2105.3	1566.2	227.2	137.9	106.2	87.0	56.1	52.7	55.4	55.8
2633.9	50°	2265.8	1633.6	229.4	131.5	100.2	87.0	56.5	50.1	52.4	53.5
2905.2	52.5°	2427.4	1664.5	227.9	117.5	89.7	81.8	56.5	47.8	50.1	50.9
3198.3	55°	2584.2	1658.5	205.0	96.8	76.1	72.3	55.0	46.0	47.5	47.8
3475.2	57.5°	2708.1	1574.5	162.4	75.4	61.8	60.3	50.1	43.7	44.8	44.5
3729.1	60°	2772.9	1389.9	116.0	58.0	48.6	47.5	44.1	40.7	41.4	39.6
3944.3	62.5°	2773.7	1145.7	77.6	46.0	38.8	37.7	37.7	36.5	35.8	32.0
4110.8	65°	2714.5	874.8	51.6	36.5	31.3	29.4	31.6	31.3	28.6	23.4
4161.7	67.5°	2580.4	573.4	39.2	28.6	24.1	23.0	25.2	26.4	24.5	19.6
3976.3	70°	2304.6	333.8	32.4	22.2	18.1	17.0	20.3	22.6	20.3	15.8
3398.7	72.5°	1914.3	180.1	26.4	16.6	12.4	11.3	16.2	18.5	16.2	11.7
2180.7	75°	1242.2	96.4	20.3	10.9	6.4	7.2	12.1	13.6	11.3	7.5
640.1	77.5°	417.1	42.6	12.8	5.3	3.0	3.0	7.2	8.3	5.3	2.6
116.4	80°	93.1	17.7	5.3	2.3	1.1	1.1	1.5	1.5	0.8	0.0
35.8	82.5°	30.5	7.2	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
9.0	85°	11.7	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	4.5	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>
930.6
918.2
807.4
642.4
431.4
259.6
192.5
180.5
172.2
160.9
146.2
131.9
117.2
99.8
83.6
71.2
64.8
61.0
58.4
56.1
53.9
50.9
47.8
44.5
39.2
30.9
22.6
19.2
15.1
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