

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: P946445

Luminaire Tested: **GALN-SB2A-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

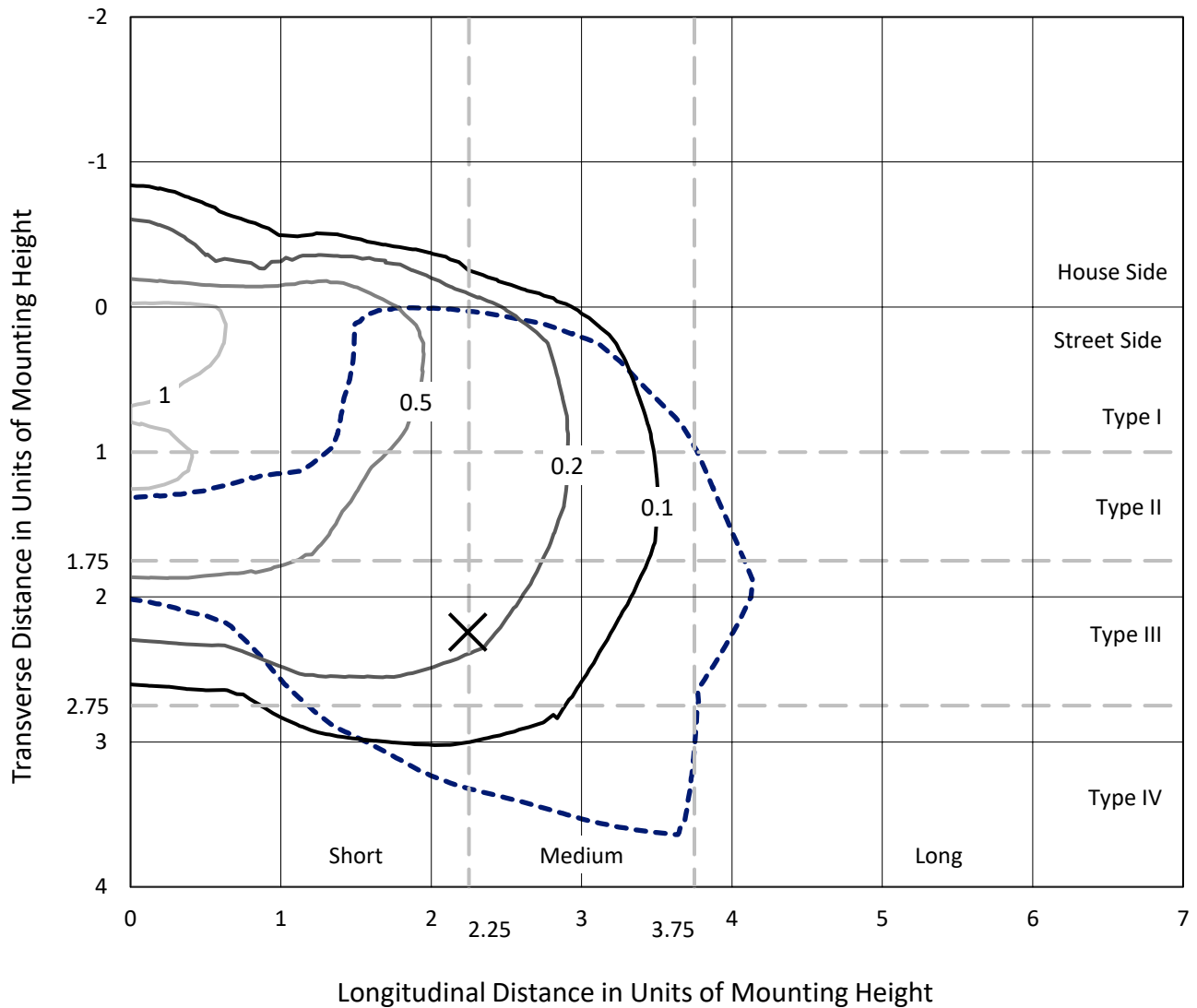
Lumens per Lamp: N/A  
Luminaire Lumens: 6209 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

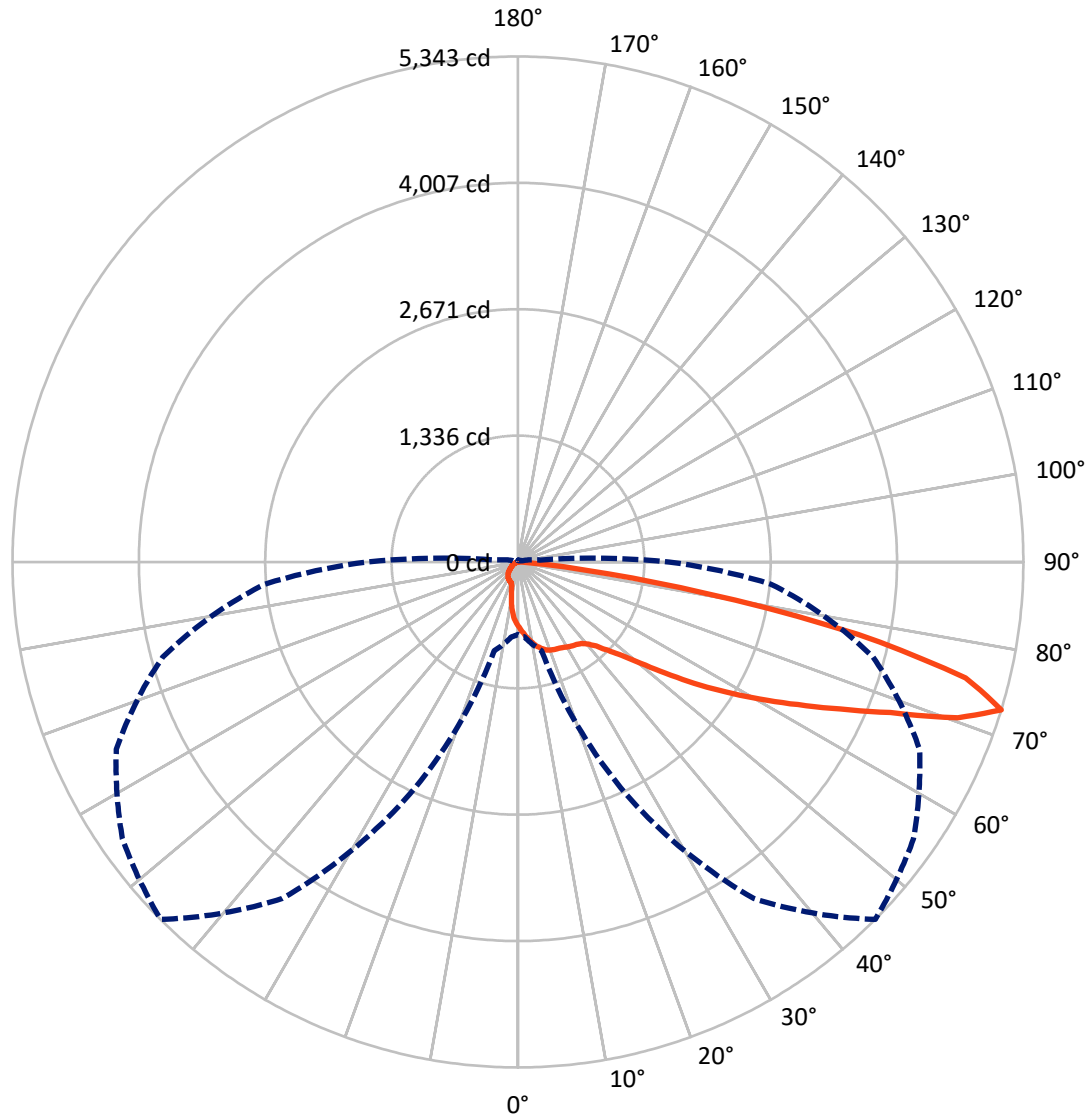
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	652.4	0.0	652.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5556.6	0.0	5556.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6209.0	0.0	6209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	1.0
10°-20°	187.3	3.0
20°-30°	307.6	5.0
30°-40°	436.2	7.0
40°-50°	721.0	11.6
50°-60°	1295.3	20.9
60°-70°	1798.6	29.0
70°-80°	1304.6	21.0
80°-90°	94.3	1.5
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°	6209.0	100.0
0°-180°	6209.0	100.0

**Coefficient of Utilization**



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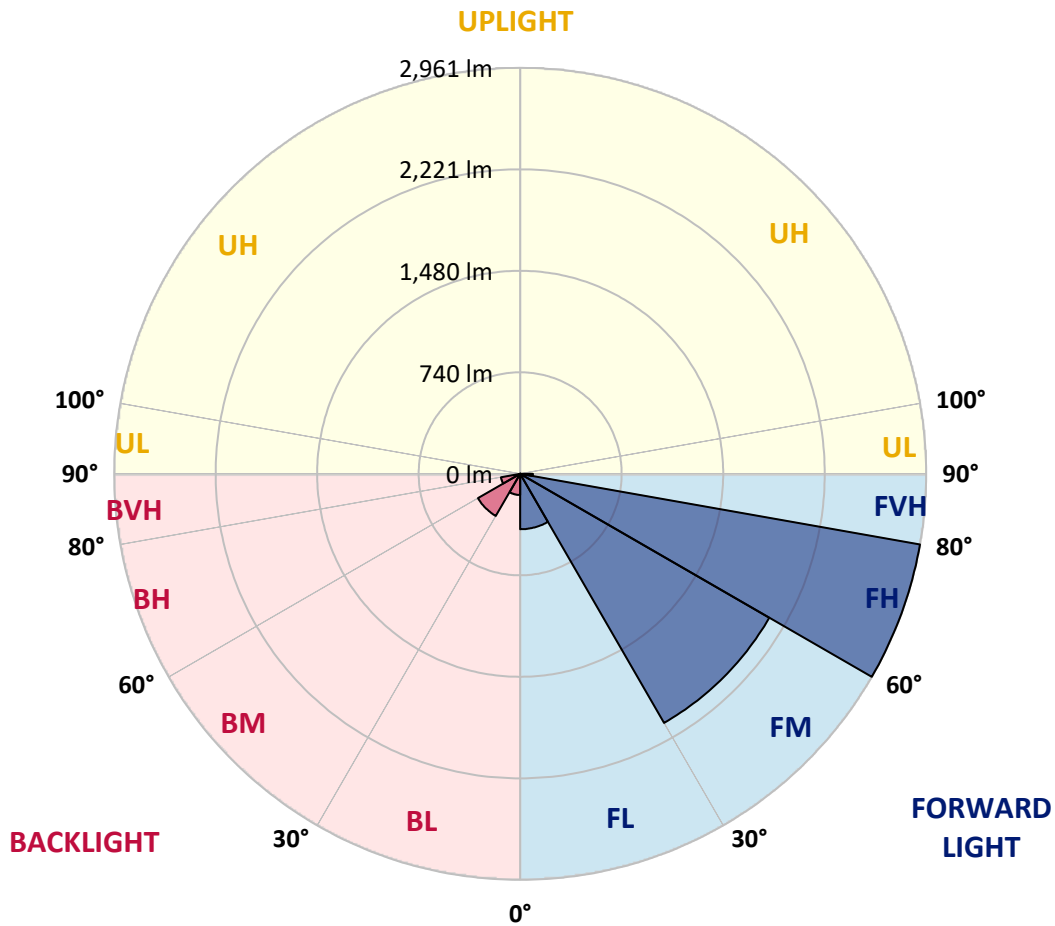
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.5	6.5			
FM (30°-60°)	2097.7	33.8			
FH (60°-80°)	2960.9	47.7			G2/5000
FVH (80°-90°)	93.5	1.5			G1/100
BL (0°-30°)	154.5	2.5	B1/500		
BM (30°-60°)	354.8	5.7	B1/1000		
BH (60°-80°)	142.3	2.3	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2
2.5°	742.9	744.2	743.4	738.3	729.8	725.1	722.6	714.1	708.6	698.9
5°	811.2	816.3	813.3	803.1	787.0	775.6	772.2	754.8	739.1	720.9
7.5°	883.6	886.2	880.7	867.5	845.9	826.4	823.5	799.3	774.3	746.3
10°	946.4	949.3	940.9	921.8	897.2	873.0	868.8	842.1	812.4	778.1
12.5°	998.9	1001.9	990.9	968.0	940.9	915.8	911.6	883.6	851.0	812.9
15°	1038.7	1044.3	1029.4	1004.8	975.6	950.6	948.5	920.9	889.1	846.8
17.5°	1062.1	1067.6	1053.6	1023.9	998.9	977.7	975.2	952.3	922.6	881.9
20°	1065.9	1071.0	1056.1	1030.3	1009.5	992.6	991.3	974.8	953.1	914.2
22.5°	1054.4	1060.8	1047.2	1026.5	1012.0	1003.1	1001.5	992.1	979.8	946.8
25°	1042.6	1047.6	1037.5	1019.3	1011.6	1010.8	1012.0	1010.4	1007.8	979.8
27.5°	1041.7	1047.2	1035.8	1018.4	1014.2	1023.1	1024.3	1032.4	1034.5	1009.9
30°	1048.9	1052.7	1041.7	1023.5	1021.4	1041.7	1042.1	1056.5	1059.9	1035.4
32.5°	1064.6	1068.8	1057.8	1031.1	1028.2	1056.5	1057.8	1076.9	1082.4	1062.5
35°	1101.5	1106.6	1093.8	1052.3	1041.7	1070.5	1074.3	1096.8	1107.8	1091.3
37.5°	1193.4	1178.6	1161.2	1095.1	1072.7	1092.6	1098.9	1125.2	1144.7	1125.6
40°	1421.9	1375.3	1321.0	1168.0	1126.9	1139.6	1144.7	1171.0	1197.7	1179.0
42.5°	1764.7	1709.6	1622.3	1335.8	1208.7	1215.1	1218.9	1241.8	1279.5	1264.6
45°	2070.3	2050.4	1961.4	1622.3	1361.7	1330.3	1335.0	1346.9	1402.4	1396.9
47.5°	2305.1	2293.6	2225.0	1951.2	1620.2	1471.5	1484.6	1490.1	1570.2	1589.7
50°	2485.6	2481.4	2419.9	2243.6	1958.0	1679.5	1684.2	1672.3	1792.3	1840.6
52.5°	2656.0	2670.4	2625.1	2515.3	2318.6	1952.1	1951.2	1895.3	2057.2	2130.1
55°	2809.8	2814.9	2819.6	2792.5	2681.4	2262.3	2254.2	2162.7	2364.4	2439.9
57.5°	2954.4	2956.5	2998.0	3053.5	3059.0	2595.4	2580.6	2470.8	2700.1	2753.9
60°	3051.4	3061.2	3148.9	3303.1	3370.5	2939.1	2931.0	2819.2	3041.7	3066.7
62.5°	2911.5	2970.9	3192.1	3498.1	3664.7	3320.1	3316.3	3211.2	3401.0	3380.7
65°	2356.8	2457.2	2846.3	3629.9	3953.3	3745.6	3751.1	3639.2	3770.2	3704.1
67.5°	1648.6	1754.6	2214.8	3640.5	4275.8	4245.3	4277.1	4101.6	4162.2	4013.9
70°	1140.0	1194.7	1494.3	3412.5	4527.1	4933.5	4932.7	4669.5	4552.1	4155.0
72.5°	766.7	795.1	970.5	2707.3	4342.3	5342.5	5317.9	5103.5	4683.5	3885.9
75°	323.4	344.1	449.2	1521.5	3435.4	4887.8	4821.2	4510.1	4161.4	3059.9
77.5°	102.6	111.5	177.2	544.6	1892.3	3674.0	3603.6	2816.6	2789.1	1535.0
80°	48.7	56.8	99.6	218.7	744.6	1998.2	1988.5	1277.8	1199.8	414.5
82.5°	21.2	25.0	55.1	117.0	333.1	712.8	727.3	434.8	359.8	157.2
85°	6.8	8.9	25.4	53.8	140.7	177.2	175.0	103.4	144.9	85.6
87.5°	0.0	0.0	8.5	12.3	14.4	10.2	11.4	8.9	40.3	23.7
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°
680.2	0°	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2
688.7	2.5°	683.6	676.8	665.0	653.9	644.2	634.4	628.5	620.0	619.2	619.2
699.7	5°	688.3	677.2	656.1	633.6	607.7	583.2	558.6	534.8	527.2	521.7
717.5	7.5°	701.8	684.4	651.0	608.2	559.0	505.2	467.5	426.8	411.1	402.6
741.2	10°	721.3	697.6	646.7	571.7	492.0	418.7	364.9	320.8	303.9	296.7
767.1	12.5°	742.9	713.7	639.1	526.4	418.7	331.0	278.4	258.1	255.6	255.6
798.0	15°	768.8	733.2	626.0	473.0	342.0	261.9	243.3	244.1	246.7	248.4
828.1	17.5°	795.5	754.0	605.2	413.2	274.2	235.6	236.1	237.3	239.5	241.1
860.8	20°	824.3	774.7	577.6	349.6	235.2	228.0	229.3	230.6	232.2	233.1
891.3	22.5°	855.2	794.2	545.0	287.3	222.1	221.7	222.1	223.3	225.5	225.5
926.9	25°	888.3	815.8	507.7	242.0	215.3	215.3	216.1	217.0	218.7	218.7
961.2	27.5°	922.2	835.7	468.3	218.3	209.4	208.9	208.9	210.2	211.1	211.5
995.1	30°	959.5	859.1	428.9	213.2	204.7	202.6	201.3	202.2	203.0	203.4
1030.7	32.5°	997.6	881.5	393.7	215.3	200.0	196.2	192.0	191.1	191.1	192.8
1067.6	35°	1040.0	906.1	366.6	222.5	197.5	186.9	180.1	176.3	176.7	179.3
1111.6	37.5°	1090.9	935.8	346.7	228.9	195.8	176.3	165.3	160.6	157.7	160.6
1172.2	40°	1157.4	979.4	332.3	233.9	193.7	164.0	149.2	141.6	136.0	137.7
1266.3	42.5°	1255.3	1048.1	326.8	234.4	189.0	149.6	132.7	122.5	114.4	114.9
1407.9	45°	1392.6	1156.6	355.1	228.9	178.8	133.9	115.3	101.7	96.6	95.4
1619.4	47.5°	1580.8	1314.6	420.8	217.4	164.0	118.7	98.3	86.9	83.1	80.9
1897.0	50°	1833.0	1517.7	493.7	204.7	149.2	104.3	84.3	77.1	74.6	72.5
2226.3	52.5°	2125.4	1723.6	553.5	192.0	134.3	91.5	75.4	71.2	69.1	67.4
2544.1	55°	2393.7	1865.6	550.1	178.4	119.9	81.4	69.1	66.5	64.0	62.3
2817.9	57.5°	2560.6	1885.5	453.5	163.6	103.4	73.3	63.1	61.5	58.5	56.4
3054.8	60°	2637.3	1771.9	317.9	144.1	86.9	65.7	56.8	55.9	52.1	49.2
3279.0	62.5°	2651.3	1560.9	211.9	119.9	72.5	58.5	50.4	49.2	44.1	39.0
3461.2	65°	2594.5	1259.1	146.6	93.7	61.9	50.9	43.2	40.7	35.2	30.1
3504.5	67.5°	2414.8	884.1	102.1	67.4	52.6	40.3	34.3	33.5	29.2	25.0
3284.1	70°	2085.6	503.9	68.2	50.4	41.5	27.5	27.1	28.0	23.7	20.3
2683.1	72.5°	1599.0	230.6	42.4	36.9	28.4	18.6	21.6	22.0	18.2	15.3
1674.0	75°	941.3	98.7	26.7	23.7	14.4	12.3	15.7	16.1	12.3	9.7
612.0	77.5°	320.4	37.3	17.0	14.0	7.2	6.8	10.2	10.2	6.8	3.8
122.9	80°	72.9	14.0	8.5	5.5	3.4	3.0	3.4	3.0	1.7	0.4
37.7	82.5°	20.8	5.5	3.4	2.1	1.3	1.3	0.4	0.0	0.0	0.0
13.1	85°	5.9	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	2.5	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>
680.2
621.3
524.2
403.9
296.7
255.6
248.4
241.1
233.5
226.3
219.1
211.9
204.3
194.1
180.5
159.8
136.9
113.2
93.7
79.7
72.0
67.0
61.5
55.9
48.3
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