

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: P946798

Luminaire Tested: **GALN-SB2B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946798  
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-SB2B-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

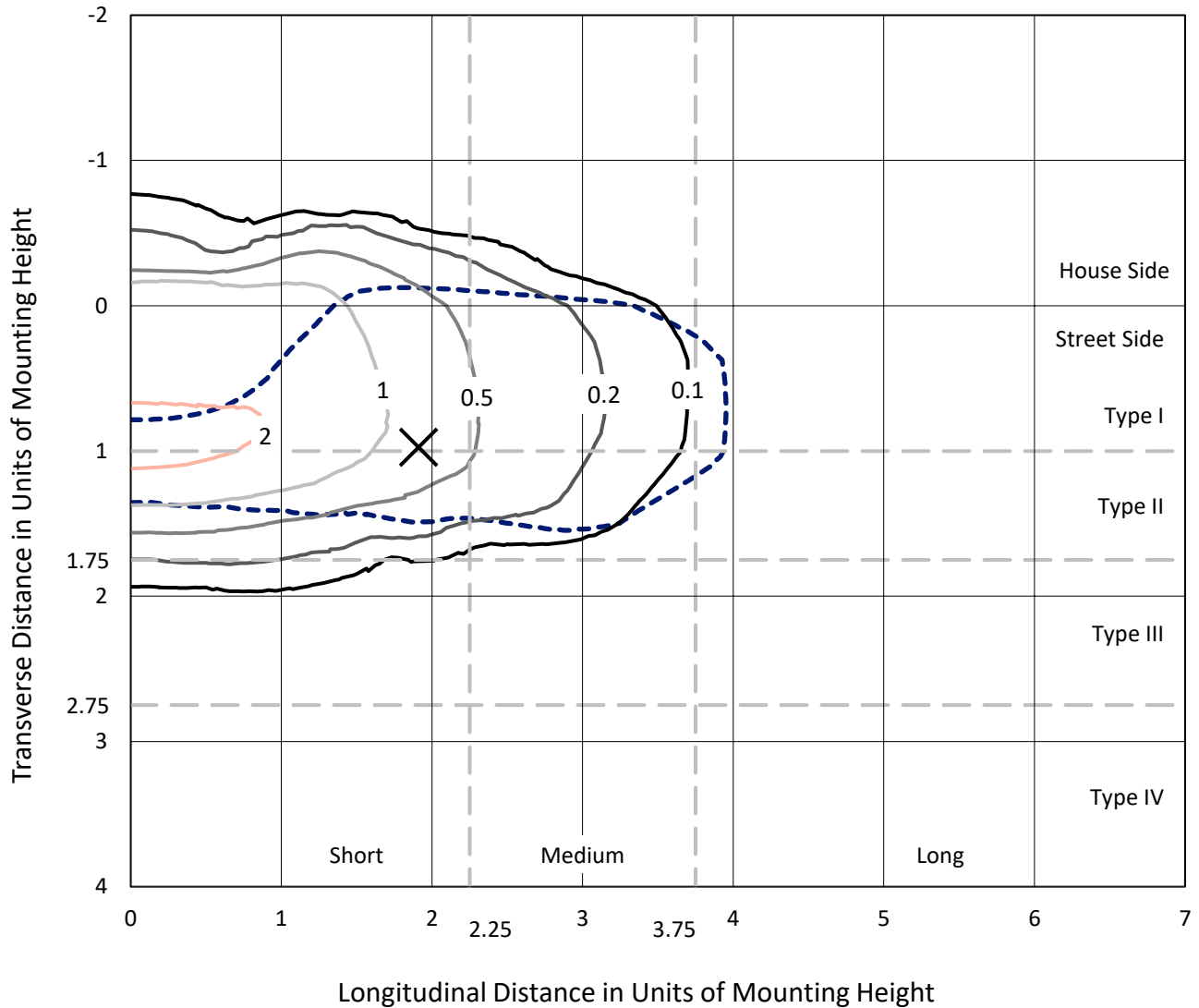
Lumens per Lamp: N/A  
Luminaire Lumens: 7733 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

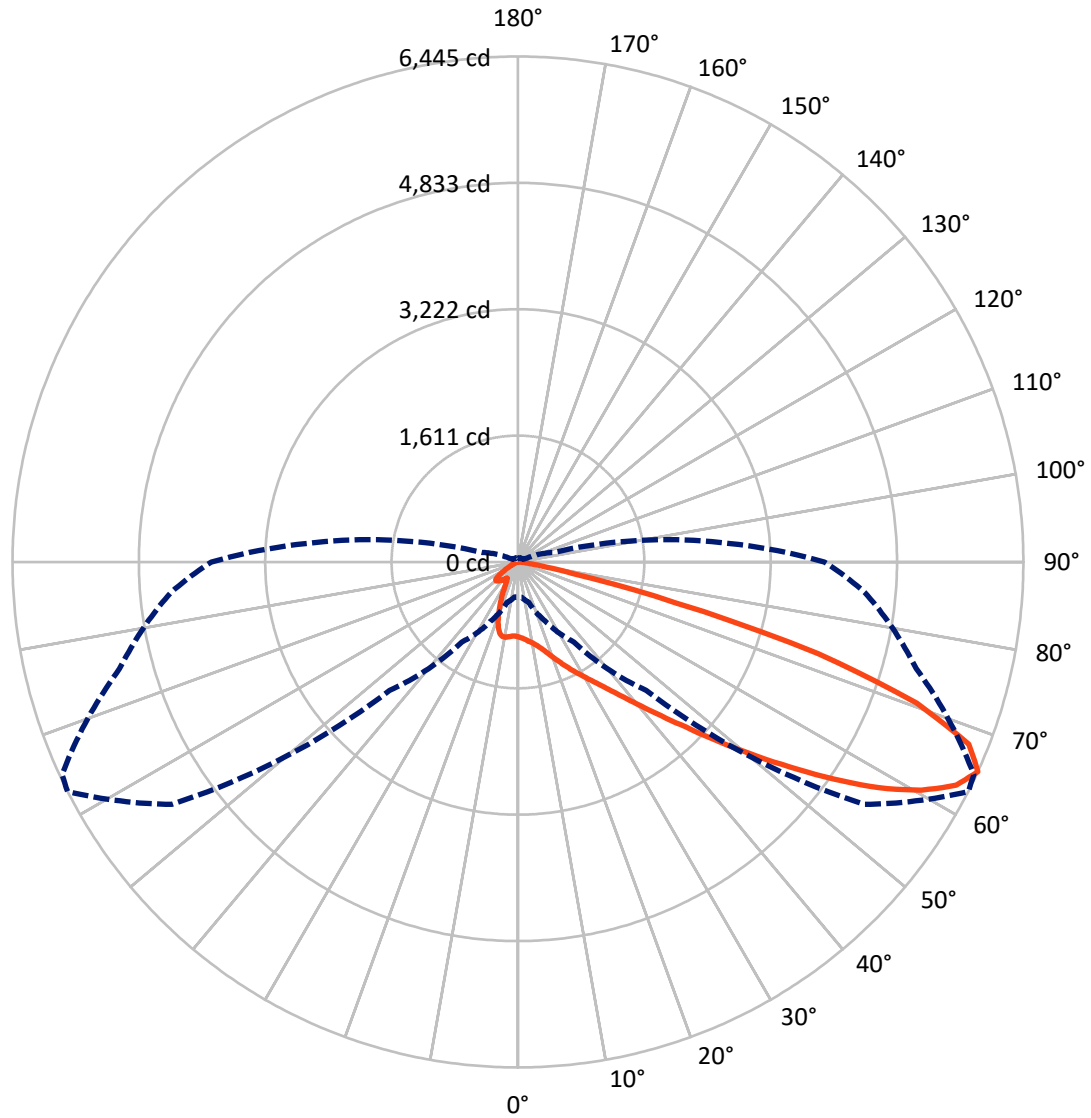
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1136.7	0.0	1136.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	6596.3	0.0	6596.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	7733.0	0.0	7733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.9	1.2
10°-20°	249.5	3.2
20°-30°	434.4	5.6
30°-40°	783.0	10.1
40°-50°	1553.0	20.1
50°-60°	2115.5	27.4
60°-70°	1688.6	21.8
70°-80°	764.1	9.9
80°-90°	54.9	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°	7733.0	100.0
0°-180°	7733.0	100.0

**Coefficient of Utilization**



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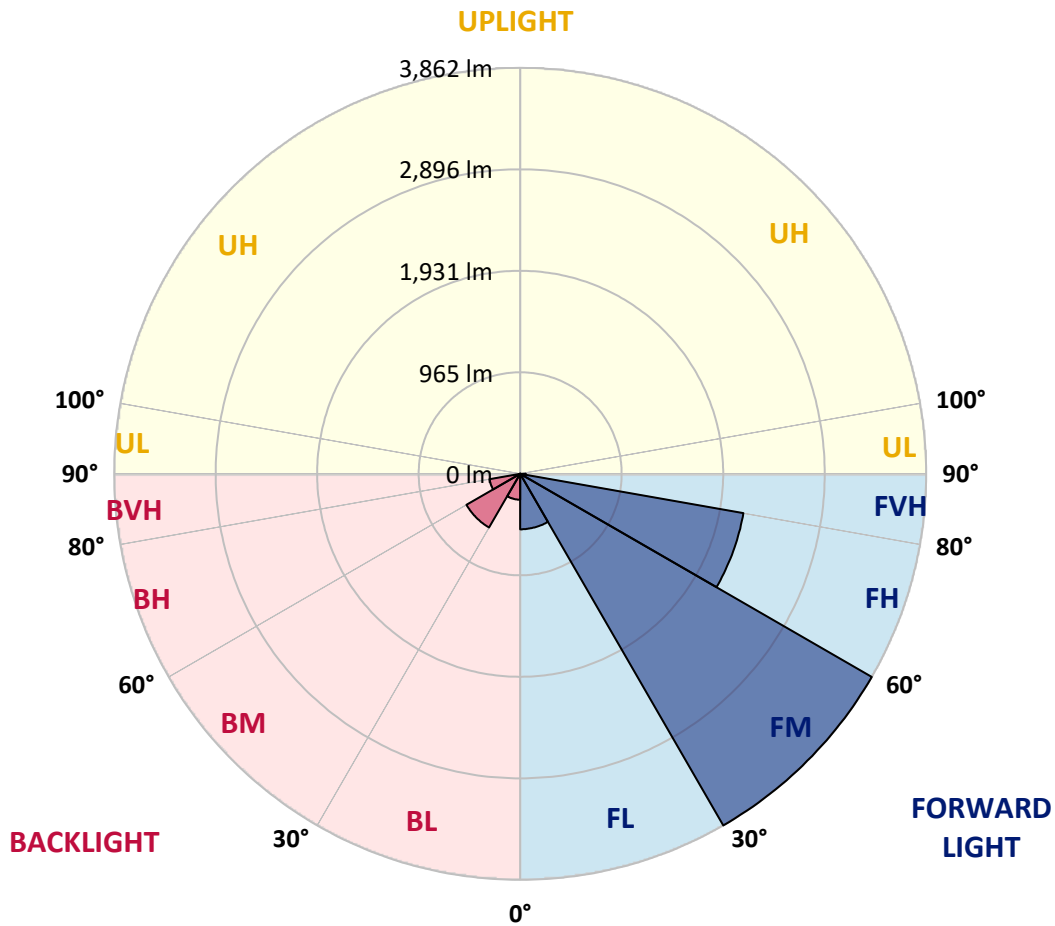
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.9	6.8			
FM (30°-60°)	3861.7	49.9			
FH (60°-80°)	2155.9	27.9			G2/5000
FVH (80°-90°)	50.8	0.7			G1/100
BL (0°-30°)	246.0	3.2	B1/500		
BM (30°-60°)	589.9	7.6	B1/1000		
BH (60°-80°)	296.7	3.8	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
2.5°	976.7	974.1	977.8	976.2	975.1	973.0	972.0	970.9	968.8	967.2
5°	979.4	977.8	981.5	984.7	987.9	991.1	992.7	994.8	992.7	988.4
7.5°	957.1	956.0	964.0	973.6	987.9	1000.1	1013.4	1020.9	1021.4	1019.8
10°	955.5	952.8	960.8	972.5	991.1	1012.9	1036.3	1052.3	1054.4	1061.3
12.5°	980.5	977.8	989.0	1001.7	1020.9	1043.8	1072.5	1094.8	1098.0	1107.6
15°	1022.5	1018.8	1031.5	1048.0	1072.5	1098.6	1128.9	1149.1	1151.8	1163.5
17.5°	1071.4	1067.7	1082.6	1100.2	1126.8	1162.4	1197.5	1219.9	1223.1	1230.5
20°	1134.2	1129.4	1141.1	1157.1	1185.3	1227.8	1269.9	1301.8	1301.3	1301.3
22.5°	1207.1	1199.6	1209.8	1222.5	1249.1	1300.7	1356.6	1394.4	1394.4	1379.5
25°	1285.3	1277.9	1289.0	1300.7	1324.1	1382.7	1448.1	1494.9	1497.0	1471.5
27.5°	1383.2	1373.6	1382.1	1396.0	1409.8	1469.4	1547.0	1601.3	1602.4	1563.0
30°	1571.5	1544.4	1517.8	1502.9	1509.3	1568.3	1651.3	1711.4	1716.7	1662.5
32.5°	1916.2	1910.9	1817.3	1694.9	1631.1	1674.7	1767.8	1840.2	1843.4	1773.7
35°	2452.0	2445.6	2295.0	2062.0	1854.0	1817.3	1909.3	1995.0	1992.9	1914.1
37.5°	3091.4	3085.6	2887.1	2575.4	2238.6	2032.8	2091.8	2181.7	2195.0	2091.8
40°	3637.8	3616.0	3490.4	3189.8	2749.3	2390.3	2351.4	2411.0	2424.8	2302.5
42.5°	4051.7	4033.1	3969.2	3781.4	3367.5	2919.1	2657.3	2680.2	2695.6	2548.8
45°	4266.1	4261.8	4287.3	4269.8	3997.4	3568.1	3094.6	2999.4	3005.2	2821.7
47.5°	4296.4	4294.3	4410.8	4575.7	4539.0	4300.1	3655.9	3397.3	3376.6	3129.7
50°	4117.6	4113.4	4336.8	4645.9	4900.7	4915.1	4293.2	3845.8	3800.0	3448.4
52.5°	3546.8	3545.7	3912.8	4427.3	5027.9	5453.5	4923.1	4338.4	4261.8	3785.7
55°	2729.1	2748.8	3169.6	3777.7	4795.9	5712.6	5488.6	4885.3	4767.7	4125.1
57.5°	1933.3	1962.0	2378.0	2919.6	4076.7	5559.3	5871.1	5433.3	5306.6	4463.4
60°	1038.5	1064.0	1480.5	2126.9	3032.9	4988.0	6072.7	5908.9	5789.2	4784.8
62.5°	618.7	627.2	799.6	1373.1	2051.4	3810.7	5987.1	6271.2	6172.7	5054.5
65°	444.2	445.8	532.5	838.4	1245.4	2315.2	5386.4	6444.6	6414.3	5257.7
67.5°	374.0	372.9	409.1	557.0	848.5	1159.7	4128.3	6199.3	6328.1	5386.4
70°	320.8	322.4	364.9	408.0	637.9	656.5	2052.4	5397.6	5672.1	5420.5
72.5°	238.9	244.2	283.6	371.9	481.5	451.7	708.6	4002.2	4498.5	5107.1
75°	168.6	171.3	199.5	312.8	359.1	328.8	361.8	2068.9	2705.2	3915.5
77.5°	129.8	134.6	151.1	218.6	353.8	230.9	221.3	716.1	1100.2	2365.2
80°	70.2	78.7	109.1	158.0	248.4	163.3	109.6	285.1	372.9	1106.0
82.5°	36.2	40.4	76.1	113.8	141.5	142.6	54.3	118.6	153.7	341.5
85°	14.4	17.6	51.1	62.8	72.9	70.2	24.5	47.9	55.3	94.7
87.5°	3.2	5.3	18.6	14.4	13.8	14.9	5.9	11.2	10.6	11.2
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°
954.4	0°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
960.8	2.5°	960.3	958.1	952.3	945.9	938.4	934.2	931.5	931.0	927.3	924.6
982.1	5°	976.2	974.1	962.9	949.6	935.2	924.1	913.4	903.9	890.0	887.4
1012.9	7.5°	1008.1	1002.3	984.2	966.1	939.0	906.5	867.2	821.9	781.5	769.3
1053.9	10°	1047.5	1039.5	1016.6	984.7	924.6	836.3	741.1	652.8	582.5	562.9
1102.3	12.5°	1092.2	1085.3	1054.9	995.9	864.5	704.4	558.6	449.0	380.9	363.9
1153.9	15°	1145.4	1135.3	1093.2	978.9	757.0	535.2	383.6	318.7	294.2	291.0
1212.9	17.5°	1201.8	1185.3	1127.3	917.7	612.3	380.4	296.3	277.7	267.1	263.9
1272.5	20°	1253.4	1232.1	1147.5	825.1	457.5	296.3	265.5	253.2	243.7	239.9
1332.1	22.5°	1305.0	1274.7	1147.5	699.0	343.1	262.8	243.7	232.5	221.3	216.5
1396.0	25°	1358.7	1318.3	1127.3	558.6	276.1	241.0	222.9	210.7	201.1	195.2
1456.6	27.5°	1410.8	1355.0	1081.0	425.6	245.8	221.8	203.8	192.1	183.0	178.8
1522.6	30°	1460.3	1391.2	1016.1	322.9	226.1	203.2	186.2	176.1	167.0	162.8
1608.2	32.5°	1527.4	1436.9	947.0	264.9	209.1	185.7	170.2	160.7	152.7	149.5
1719.4	35°	1620.5	1504.5	887.4	260.1	194.7	171.3	155.9	146.8	138.9	136.2
1863.0	37.5°	1752.4	1613.5	856.0	292.1	183.0	158.5	144.2	134.6	127.1	125.0
2045.5	40°	1915.2	1761.4	873.0	324.0	175.0	147.4	133.5	124.0	117.6	114.9
2255.1	42.5°	2108.3	1943.9	967.2	348.5	169.7	137.8	123.4	112.8	108.5	107.5
2492.9	45°	2330.1	2144.5	1111.3	374.5	161.2	128.7	113.3	105.3	102.1	101.6
2751.5	47.5°	2582.3	2364.7	1278.4	407.0	152.7	120.2	105.3	100.0	97.4	96.3
3021.2	50°	2832.3	2586.6	1450.2	425.1	145.8	112.3	99.0	94.7	92.6	92.0
3306.3	52.5°	3094.1	2814.8	1589.1	408.0	139.9	105.9	93.6	90.4	88.3	87.8
3569.2	55°	3343.6	2999.4	1613.0	346.3	128.2	99.5	87.8	86.2	83.5	83.5
3835.7	57.5°	3558.5	3092.0	1443.8	254.3	116.5	89.9	81.9	80.3	78.2	77.7
4076.1	60°	3755.9	3065.4	1114.5	171.3	103.7	80.3	74.5	73.4	71.3	68.6
4285.2	62.5°	3867.1	2948.3	762.3	111.7	91.0	70.2	66.0	65.4	60.6	55.3
4440.0	65°	3909.1	2707.9	475.6	81.4	76.1	60.1	56.9	55.9	48.9	43.1
4527.8	67.5°	3872.4	2312.0	239.9	64.4	60.1	50.0	46.8	46.8	42.0	36.7
4522.5	70°	3725.6	1733.2	101.1	51.6	46.3	38.3	38.3	40.4	35.6	29.8
4287.9	72.5°	3406.9	1166.1	53.7	39.4	34.6	27.1	31.4	33.0	28.2	22.3
3509.6	75°	2708.4	711.3	37.2	29.3	21.8	19.2	23.9	25.0	19.2	14.9
2406.2	77.5°	1852.4	408.6	25.0	18.6	13.8	11.2	16.5	15.4	10.1	6.9
927.8	80°	813.4	170.2	14.4	8.5	5.3	4.3	5.9	4.3	3.2	2.1
127.1	82.5°	95.2	39.9	5.3	3.2	2.1	1.1	0.5	0.0	0.0	0.0
38.8	85°	19.7	4.8	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	3.7	1.1	0.5	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>
954.4
927.3
886.3
763.4
555.4
359.1
287.8
262.3
237.8
213.9
193.1
178.8
163.3
149.5
136.2
124.5
114.4
107.5
101.1
96.3
92.0
87.8
83.0
77.1
68.1
54.3
42.6
36.2
29.3
22.3
14.4
7.4
2.1
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