

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: P940876

Luminaire Tested: **GALN-SB4A-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

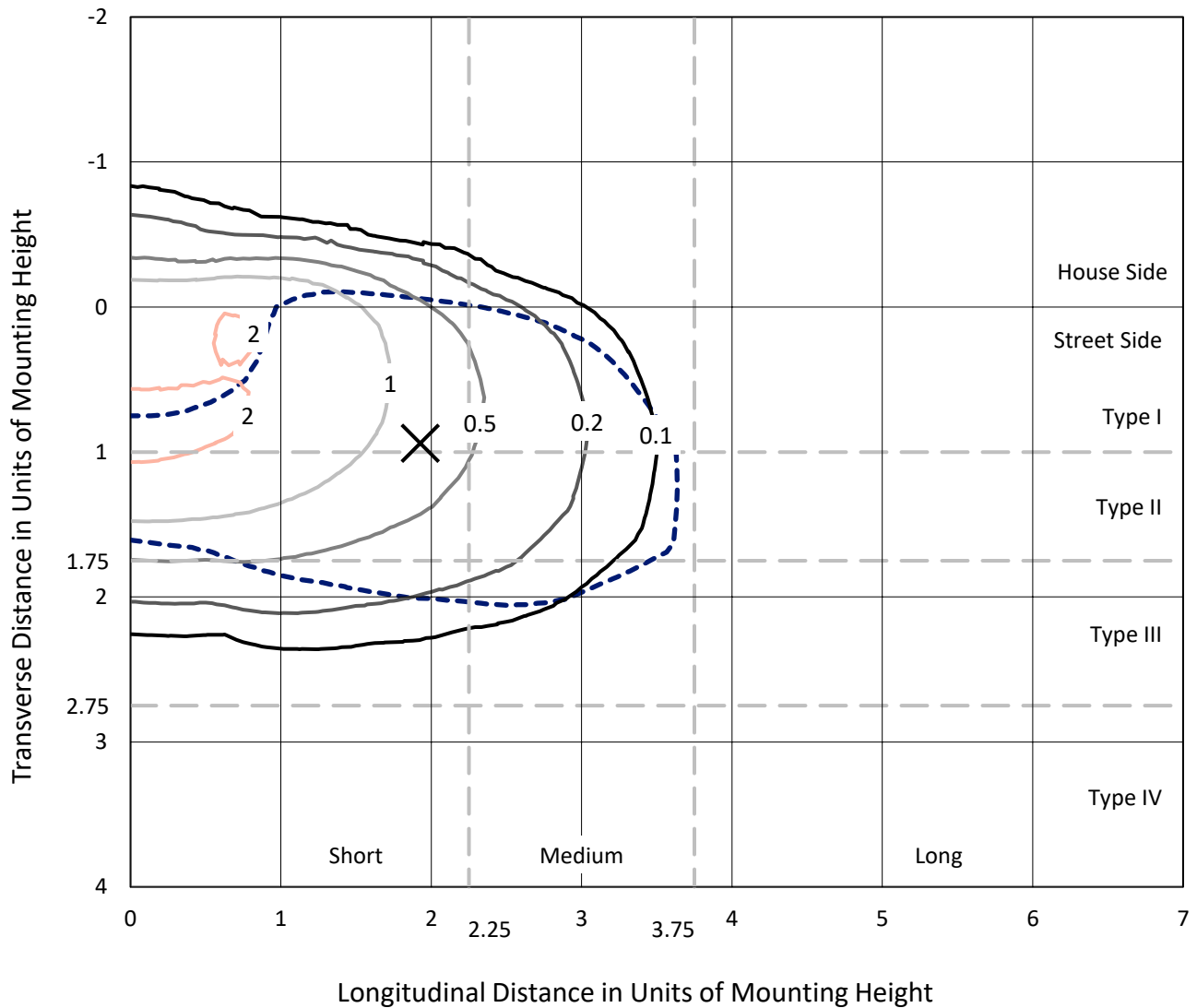
Lumens per Lamp: N/A  
Luminaire Lumens: 8582 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

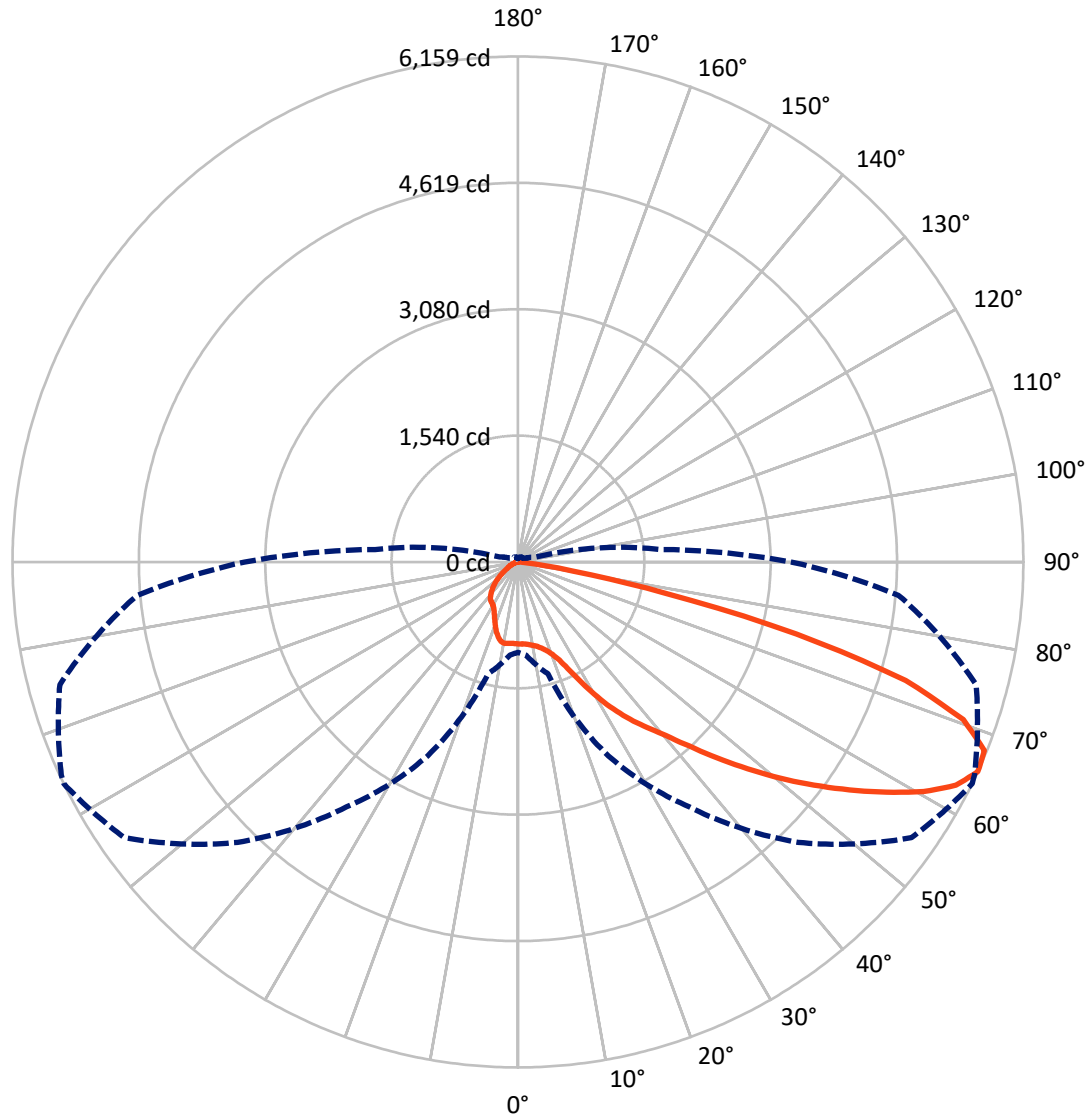
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1147.7	0.0	1147.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7434.3	0.0	7434.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8582.0	0.0	8582.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.1
10°-20°	249.8	2.9
20°-30°	473.3	5.5
30°-40°	957.8	11.2
40°-50°	1631.5	19.0
50°-60°	2218.8	25.9
60°-70°	2083.5	24.3
70°-80°	834.8	9.7
80°-90°	40.4	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°	8582.0	100.0
0°-180°	8582.0	100.0

**Coefficient of Utilization**



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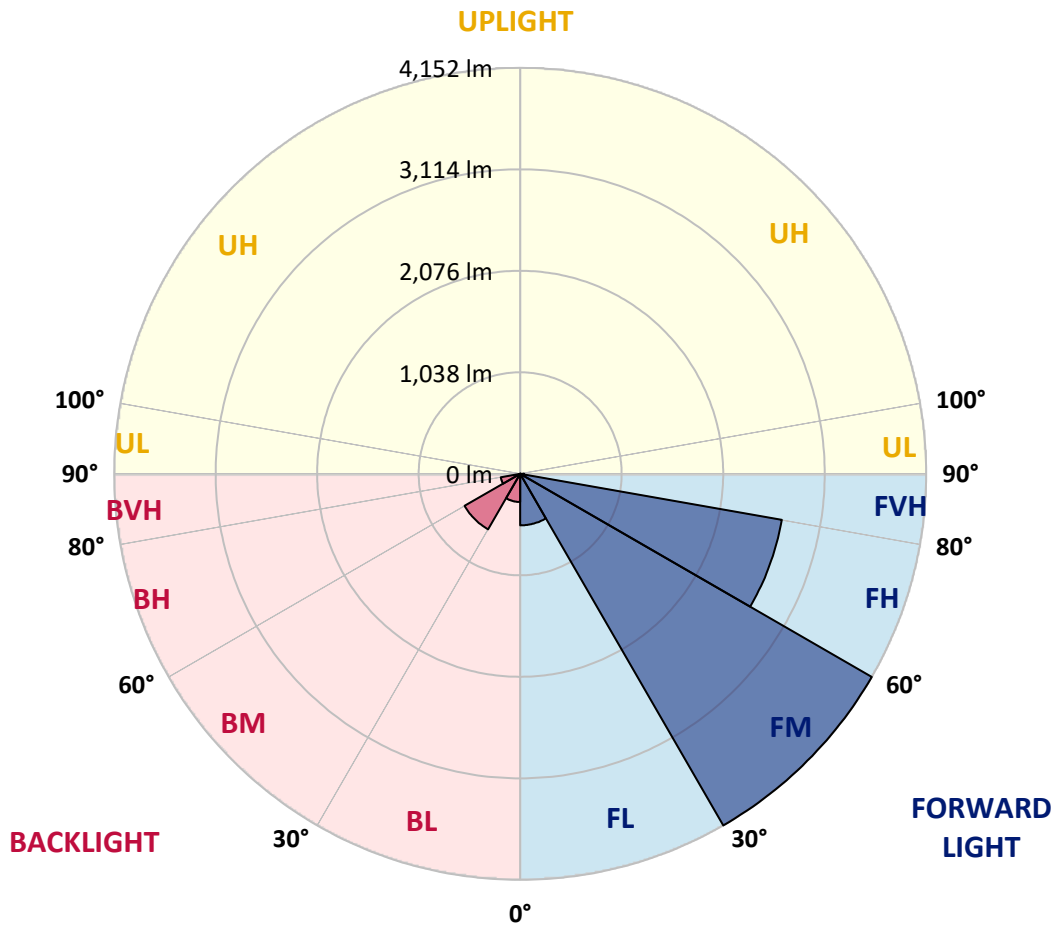
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.0	6.1			
FM (30°-60°)	4152.0	48.4			
FH (60°-80°)	2716.9	31.7			G2/5000
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	288.1	3.4	B1/500		
BM (30°-60°)	656.1	7.6	B1/1000		
BH (60°-80°)	201.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	994.7	1001.6	999.9	998.2	997.6	998.8	999.3	998.8	998.8	998.8
5°	975.7	981.5	981.5	985.5	991.3	998.2	1003.4	1004.5	1005.7	1007.4
7.5°	939.5	944.1	947.5	960.8	975.2	993.6	1009.1	1017.2	1018.3	1024.6
10°	914.8	920.5	926.3	940.1	960.8	988.4	1014.9	1034.4	1037.3	1052.3
12.5°	913.6	919.4	926.8	941.8	966.0	995.3	1027.5	1055.7	1060.9	1082.7
15°	925.7	932.6	939.5	957.9	983.8	1019.5	1054.0	1089.1	1094.3	1125.3
17.5°	950.4	959.6	964.8	983.2	1010.8	1050.5	1096.0	1136.3	1140.9	1177.1
20°	999.3	1010.3	1012.0	1026.9	1054.0	1096.6	1150.6	1200.7	1206.4	1247.9
22.5°	1100.6	1116.1	1102.3	1109.8	1134.0	1176.5	1235.2	1298.5	1306.5	1353.7
25°	1278.9	1300.8	1265.1	1252.5	1262.8	1307.1	1380.8	1460.7	1469.9	1507.9
27.5°	1629.3	1601.1	1547.0	1494.1	1463.0	1488.3	1571.2	1670.1	1681.7	1718.5
30°	2014.2	1989.4	1916.4	1799.0	1725.4	1721.3	1797.9	1908.3	1921.6	1956.7
32.5°	2399.6	2376.1	2296.7	2152.3	2024.5	1961.3	2014.2	2136.7	2143.6	2166.1
35°	2778.8	2754.6	2675.2	2527.4	2370.3	2226.5	2216.1	2354.2	2356.5	2380.1
37.5°	3160.2	3140.1	3055.5	2910.5	2755.8	2557.3	2461.2	2560.2	2563.0	2586.1
40°	3432.3	3441.0	3382.9	3270.7	3137.8	2920.9	2736.2	2779.4	2762.1	2800.6
42.5°	3665.9	3683.2	3632.6	3576.2	3499.1	3308.1	3076.8	3069.3	3041.7	3062.4
45°	3867.9	3882.2	3836.8	3823.6	3821.8	3687.8	3449.0	3404.2	3365.6	3361.6
47.5°	3942.1	3969.7	3989.3	4033.6	4119.8	4063.5	3833.9	3764.3	3721.2	3689.5
50°	3970.3	3999.6	4066.3	4195.2	4399.5	4423.6	4217.1	4138.8	4085.9	4028.4
52.5°	3932.3	3984.6	4074.4	4291.3	4587.6	4712.4	4584.7	4516.2	4455.8	4362.1
55°	3708.5	3760.8	3944.4	4290.1	4681.4	4914.9	4932.2	4901.7	4833.8	4686.0
57.5°	3236.7	3314.4	3604.9	4144.0	4679.6	5089.3	5272.8	5294.6	5218.7	5007.0
60°	2583.2	2688.5	3042.9	3820.1	4535.2	5183.6	5571.4	5680.7	5600.1	5323.4
62.5°	1802.5	1924.4	2259.8	3312.7	4205.0	5115.7	5789.4	5991.4	5930.4	5606.5
65°	1099.4	1138.6	1409.0	2606.8	3643.5	4831.5	5856.7	6159.3	6139.2	5779.6
67.5°	732.4	765.2	842.8	1787.5	2828.3	4263.7	5695.6	6130.0	6135.8	5751.4
70°	441.3	469.5	520.1	1039.6	1833.0	3374.8	5196.8	5756.1	5789.4	5374.6
72.5°	181.8	200.8	246.8	471.2	949.3	2141.9	4138.3	4942.0	5019.6	4519.1
75°	103.0	112.8	145.0	236.5	411.9	998.2	2506.7	3508.3	3622.8	3114.8
77.5°	68.5	73.1	93.8	153.0	231.9	340.6	1071.2	1827.8	2046.4	1701.2
80°	46.0	50.1	64.4	102.4	150.7	146.1	341.2	677.1	833.1	584.5
82.5°	31.1	31.6	46.0	67.3	95.5	70.8	100.7	210.6	264.6	169.1
85°	17.8	17.3	33.9	39.1	42.6	29.3	30.5	63.3	82.8	71.3
87.5°	2.3	3.5	13.2	10.4	5.8	6.3	6.3	10.9	16.1	17.3
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°
998.2	0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
999.3	2.5°	999.3	998.8	997.0	995.3	991.3	989.0	990.1	989.0	988.4	989.0
1006.8	5°	1006.8	1005.1	1000.5	994.7	986.7	976.9	970.6	961.4	952.7	947.5
1026.9	7.5°	1026.9	1025.2	1018.9	1002.8	976.9	936.0	898.6	865.9	841.1	826.7
1059.2	10°	1059.2	1056.3	1046.5	1010.8	942.9	853.8	779.6	718.0	677.7	658.7
1097.1	12.5°	1097.1	1093.7	1076.4	1003.4	878.5	739.3	636.9	568.4	531.0	514.3
1140.9	15°	1142.0	1137.4	1103.5	967.7	784.7	612.7	518.9	467.7	443.6	428.6
1196.7	17.5°	1197.8	1189.8	1123.6	914.2	682.9	516.1	446.4	407.9	386.6	372.2
1269.7	20°	1270.3	1257.1	1139.7	850.3	589.1	455.1	397.5	365.3	349.2	336.6
1373.3	22.5°	1371.6	1352.6	1159.3	781.3	523.0	413.1	361.3	337.7	324.5	310.1
1517.7	25°	1497.0	1474.5	1183.4	717.4	477.5	376.8	334.8	315.3	299.7	283.1
1707.0	27.5°	1672.4	1632.2	1212.2	665.1	438.4	345.8	310.7	288.8	271.0	257.2
1921.6	30°	1868.1	1801.9	1237.5	633.4	402.7	317.0	279.0	257.2	240.5	230.7
2114.3	32.5°	2053.3	1963.6	1254.2	619.6	370.5	284.2	244.5	220.9	208.3	205.4
2303.0	35°	2228.2	2109.7	1252.5	606.4	341.7	251.4	210.6	186.4	176.6	178.3
2506.1	37.5°	2429.6	2265.6	1240.4	585.7	318.2	221.5	181.2	159.9	151.3	151.9
2752.9	40°	2663.7	2445.7	1232.9	546.6	292.3	193.9	157.1	139.8	133.5	131.2
3012.9	42.5°	2913.4	2620.0	1234.1	502.3	260.0	169.1	140.4	126.0	120.2	118.5
3302.3	45°	3164.2	2786.3	1235.8	456.2	226.1	150.2	128.3	116.2	112.8	110.5
3595.7	47.5°	3400.1	2927.8	1203.6	406.7	192.7	135.8	118.5	110.5	107.6	104.7
3890.3	50°	3619.9	3022.1	1125.9	349.2	166.3	124.3	111.0	105.3	102.4	99.5
4157.2	52.5°	3790.8	3037.1	997.6	290.0	147.9	115.6	106.4	101.3	97.8	94.9
4373.0	55°	3866.7	2943.3	815.2	234.7	133.5	108.2	101.8	96.7	92.6	89.7
4542.7	57.5°	3847.1	2746.0	635.7	188.7	119.7	100.7	96.1	92.6	88.0	83.4
4680.2	60°	3751.1	2481.9	479.2	157.1	107.0	92.6	89.7	86.9	80.5	73.6
4733.1	62.5°	3584.8	2150.0	341.7	130.0	93.2	83.4	82.3	80.0	70.8	58.1
4654.9	65°	3330.5	1746.7	230.1	108.2	80.0	73.1	73.6	69.6	57.5	43.1
4368.4	67.5°	2958.9	1277.2	147.3	88.6	66.7	61.0	61.6	59.3	48.9	36.8
3825.3	70°	2485.4	845.7	96.1	67.3	53.5	47.2	50.6	51.2	41.4	29.9
2935.8	72.5°	1822.0	499.4	67.3	50.1	39.1	32.8	41.4	42.6	33.4	22.4
1766.2	75°	1038.4	237.0	50.6	36.2	24.2	23.0	32.2	32.2	23.0	15.0
764.6	77.5°	436.1	99.0	35.7	23.6	13.8	13.2	21.9	20.1	11.5	6.9
186.4	80°	126.0	44.3	19.0	11.5	5.8	5.2	8.6	6.3	2.9	1.2
70.8	82.5°	49.5	19.6	7.5	4.6	2.3	2.3	1.2	0.0	0.0	0.0
40.3	85°	29.3	8.1	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	7.5	1.7	1.2	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>
998.2
991.3
948.7
827.3
657.0
512.6
429.2
371.1
334.3
307.8
281.3
254.3
229.0
207.1
178.3
154.2
130.6
117.9
110.5
104.7
99.5
94.4
89.2
82.8
72.5
57.0
42.0
35.1
28.8
21.3
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