

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: P941556

Luminaire Tested: **GALN-SB5A-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941556  
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-SB5A-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

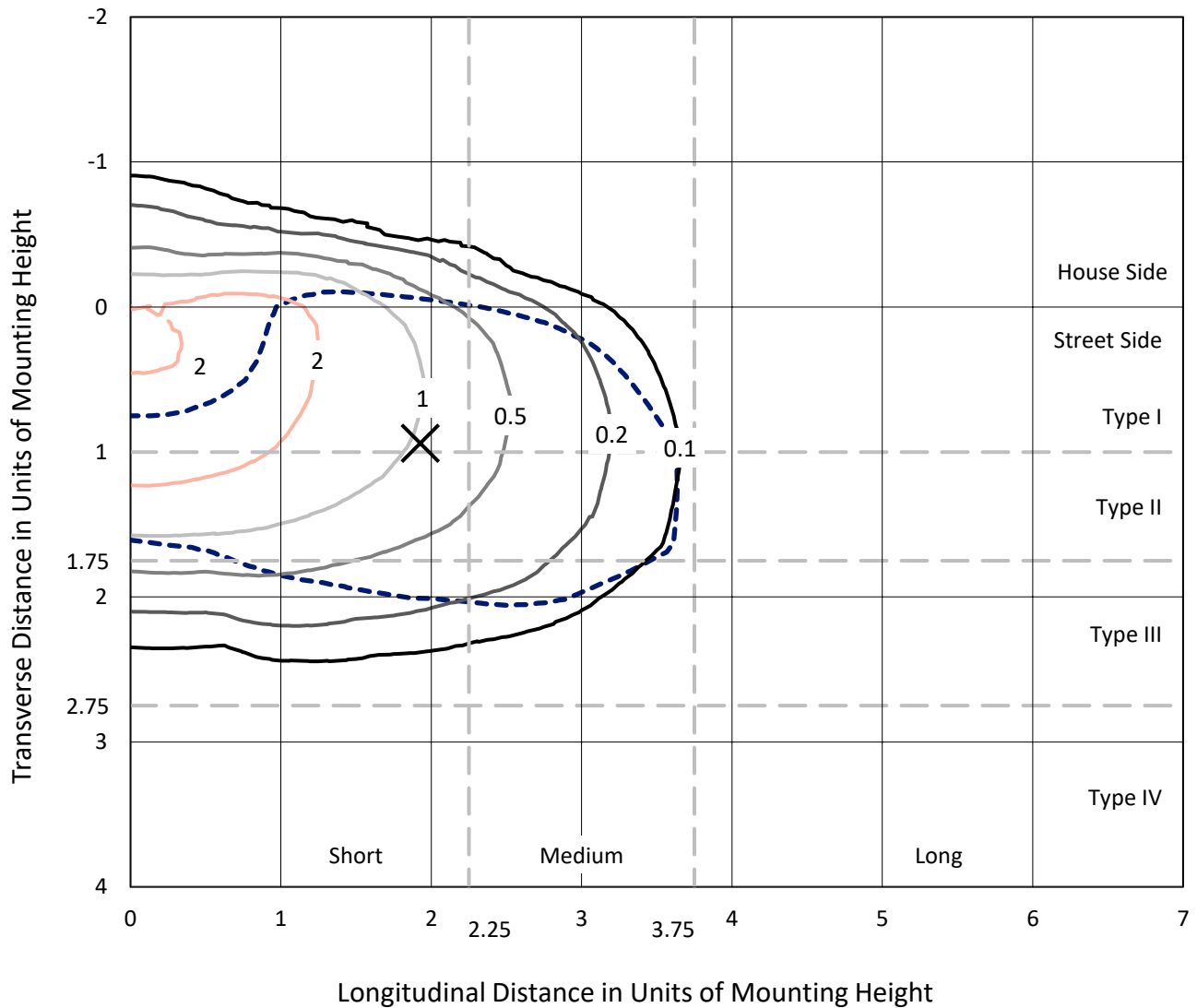
Lumens per Lamp: N/A  
Luminaire Lumens: 10817 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

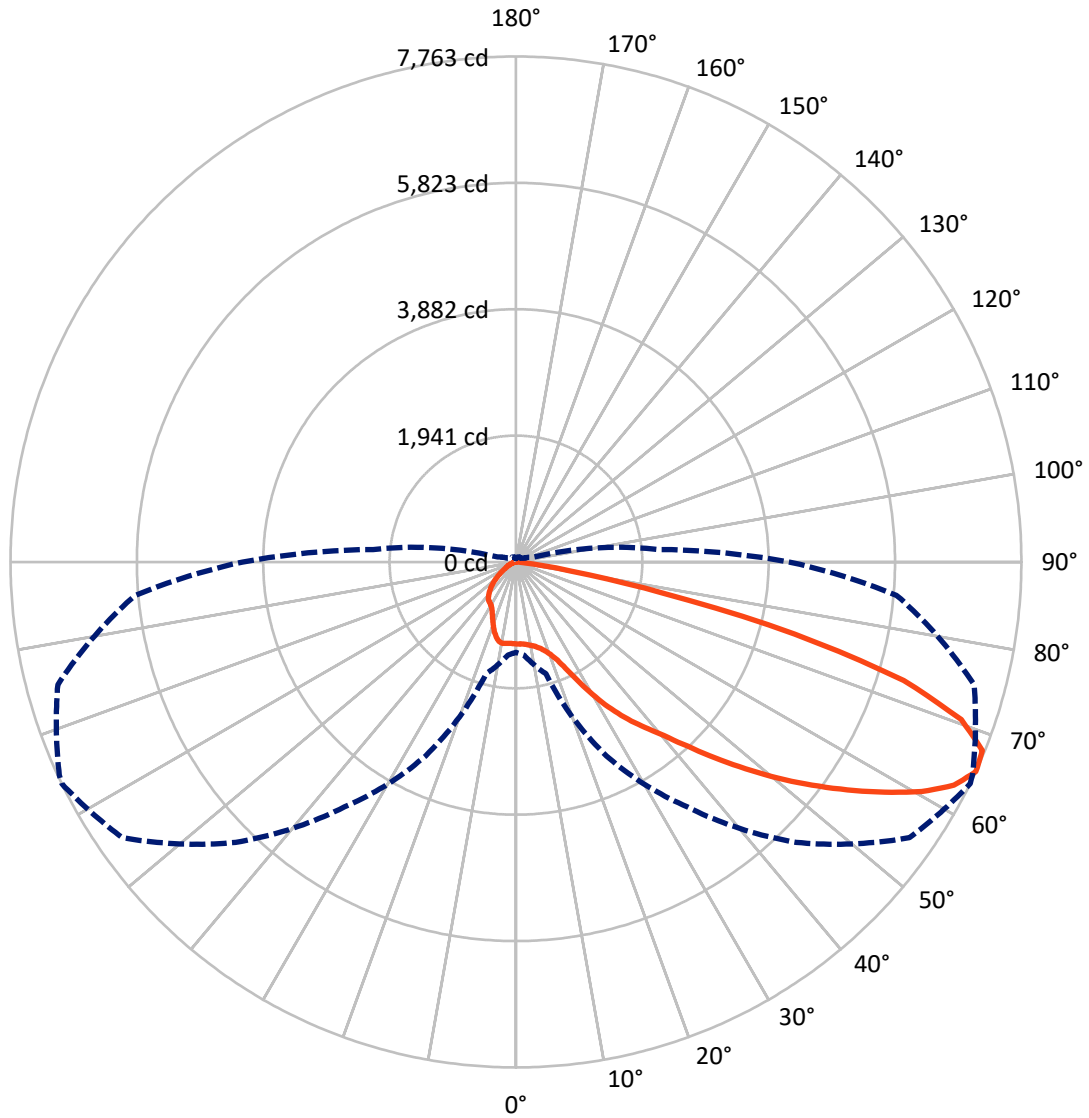
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1446.6	0.0	1446.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9370.4	0.0	9370.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10817.0	0.0	10817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	1.1
10°-20°	314.8	2.9
20°-30°	596.6	5.5
30°-40°	1207.2	11.2
40°-50°	2056.4	19.0
50°-60°	2796.6	25.9
60°-70°	2626.2	24.3
70°-80°	1052.1	9.7
80°-90°	51.0	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°	10817.0	100.0
0°-180°	10817.0	100.0

**Coefficient of Utilization**



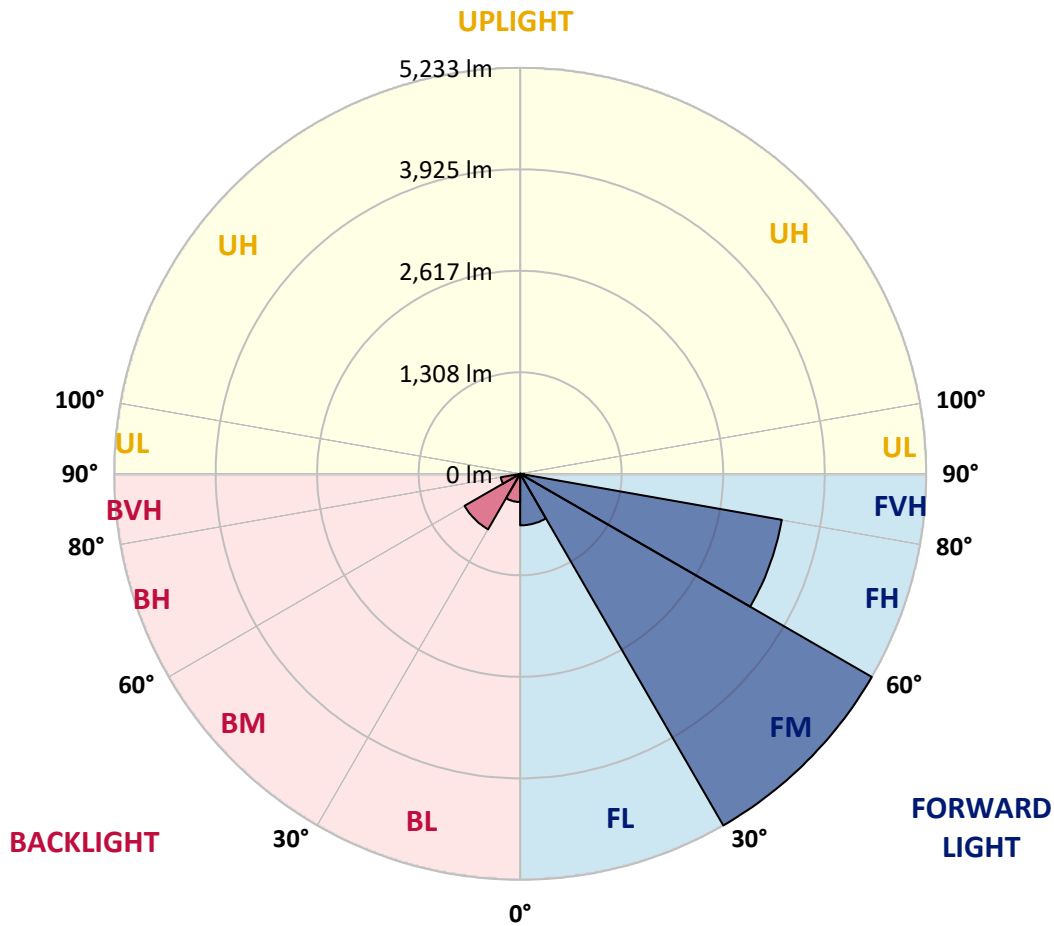
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.3	6.1			
FM (30°-60°)	5233.3	48.4			
FH (60°-80°)	3424.4	31.7			G2/5000
FVH (80°-90°)	48.5	0.4			G1/100
BL (0°-30°)	363.2	3.4	B1/500		
BM (30°-60°)	827.0	7.6	B1/1000		
BH (60°-80°)	253.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1
2.5°	1253.8	1262.5	1260.3	1258.1	1257.4	1258.9	1259.6	1258.9	1258.9	1258.9
5°	1229.8	1237.1	1237.1	1242.2	1249.4	1258.1	1264.7	1266.1	1267.6	1269.7
7.5°	1184.2	1190.0	1194.3	1211.0	1229.1	1252.3	1271.9	1282.1	1283.5	1291.5
10°	1153.0	1160.2	1167.5	1184.9	1211.0	1245.8	1279.2	1303.8	1307.4	1326.3
12.5°	1151.5	1158.8	1168.2	1187.1	1217.5	1254.5	1295.1	1330.6	1337.2	1364.7
15°	1166.8	1175.5	1184.2	1207.4	1240.0	1285.0	1328.5	1372.7	1379.2	1418.4
17.5°	1197.9	1209.5	1216.1	1239.3	1274.1	1324.1	1381.4	1432.2	1438.0	1483.7
20°	1259.6	1273.4	1275.5	1294.4	1328.5	1382.1	1450.3	1513.4	1520.6	1572.8
22.5°	1387.2	1406.8	1389.4	1398.8	1429.3	1482.9	1556.9	1636.7	1646.8	1706.3
25°	1612.0	1639.6	1594.6	1578.6	1591.7	1647.5	1740.4	1841.1	1852.7	1900.6
27.5°	2053.6	2018.1	1949.9	1883.2	1844.0	1876.0	1980.4	2105.1	2119.6	2166.0
30°	2538.7	2507.6	2415.5	2267.5	2174.7	2169.6	2266.1	2405.3	2422.0	2466.2
32.5°	3024.6	2994.9	2894.8	2712.8	2551.8	2472.0	2538.7	2693.2	2701.9	2730.2
35°	3502.5	3472.0	3371.9	3185.6	2987.6	2806.3	2793.3	2967.3	2970.2	2999.9
37.5°	3983.2	3957.9	3851.3	3668.5	3473.5	3223.3	3102.2	3226.9	3230.5	3259.5
40°	4326.2	4337.1	4263.9	4122.5	3954.9	3681.6	3448.8	3503.2	3481.4	3530.0
42.5°	4620.6	4642.4	4578.6	4507.5	4410.3	4169.6	3878.1	3868.7	3833.9	3860.0
45°	4875.2	4893.3	4836.0	4819.3	4817.1	4648.2	4347.3	4290.7	4242.1	4237.0
47.5°	4968.7	5003.5	5028.2	5084.0	5192.8	5121.7	4832.4	4744.6	4690.2	4650.4
50°	5004.2	5041.2	5125.3	5287.8	5545.2	5575.7	5315.3	5216.7	5150.0	5077.5
52.5°	4956.4	5022.4	5135.5	5408.9	5782.3	5939.7	5778.7	5692.4	5616.3	5498.1
55°	4674.3	4740.3	4971.6	5407.4	5900.5	6194.9	6216.7	6178.2	6092.7	5906.3
57.5°	4079.7	4177.6	4543.8	5223.2	5898.3	6414.6	6646.0	6673.5	6577.8	6311.0
60°	3255.9	3388.6	3835.3	4815.0	5716.3	6533.6	7022.3	7160.1	7058.6	6709.8
62.5°	2271.9	2425.6	2848.4	4175.4	5300.1	6448.0	7297.2	7551.7	7474.8	7066.6
65°	1385.8	1435.1	1775.9	3285.6	4592.4	6089.8	7382.0	7763.4	7738.0	7284.8
67.5°	923.1	964.4	1062.3	2253.0	3564.8	5374.1	7179.0	7726.4	7733.7	7249.3
70°	556.2	591.7	655.5	1310.3	2310.3	4253.7	6550.2	7255.1	7297.2	6774.3
72.5°	229.1	253.1	311.1	593.9	1196.5	2699.7	5216.0	6229.0	6326.9	5696.0
75°	129.8	142.1	182.7	298.0	519.2	1258.1	3159.5	4421.9	4566.2	3925.9
77.5°	86.3	92.1	118.2	192.9	292.2	429.3	1350.2	2303.8	2579.3	2144.3
80°	58.0	63.1	81.2	129.1	190.0	184.2	430.0	853.5	1050.0	736.7
82.5°	39.2	39.9	58.0	84.8	120.4	89.2	126.9	265.4	333.6	213.2
85°	22.5	21.8	42.8	49.3	53.7	37.0	38.4	79.8	104.4	89.9
87.5°	2.9	4.4	16.7	13.1	7.3	8.0	8.0	13.8	20.3	21.8
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°
1258.1	0°	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1	1258.1
1259.6	2.5°	1259.6	1258.9	1256.7	1254.5	1249.4	1246.5	1248.0	1246.5	1245.8	1246.5
1269.0	5°	1269.0	1266.8	1261.0	1253.8	1243.6	1231.3	1223.3	1211.7	1200.8	1194.3
1294.4	7.5°	1294.4	1292.2	1284.2	1263.9	1231.3	1179.8	1132.7	1091.3	1060.2	1042.0
1335.0	10°	1335.0	1331.4	1319.0	1274.1	1188.5	1076.1	982.6	905.0	854.2	830.3
1382.9	12.5°	1382.9	1378.5	1356.7	1264.7	1107.3	931.8	802.7	716.4	669.3	648.3
1438.0	15°	1439.4	1433.6	1390.8	1219.7	989.1	772.3	654.1	589.5	559.1	540.2
1508.3	17.5°	1509.8	1499.6	1416.2	1152.3	860.7	650.5	562.7	514.1	487.3	469.2
1600.4	20°	1601.1	1584.4	1436.5	1071.8	742.6	573.6	501.1	460.5	440.2	424.2
1730.9	22.5°	1728.7	1704.8	1461.2	984.7	659.2	520.7	455.4	425.7	409.0	390.9
1912.9	25°	1886.8	1858.6	1491.6	904.3	601.9	475.0	422.0	397.4	377.8	356.8
2151.5	27.5°	2108.0	2057.2	1527.9	838.3	552.6	435.8	391.6	364.0	341.5	324.1
2422.0	30°	2354.6	2271.2	1559.8	798.4	507.6	399.6	351.7	324.1	303.1	290.8
2664.9	32.5°	2588.0	2474.9	1580.8	781.0	467.0	358.2	308.2	278.5	262.5	258.9
2902.8	35°	2808.5	2659.1	1578.6	764.3	430.7	316.9	265.4	234.9	222.6	224.8
3158.7	37.5°	3062.3	2855.6	1563.4	738.2	401.0	279.2	228.4	201.6	190.7	191.4
3469.8	40°	3357.4	3082.6	1554.0	688.9	368.4	244.4	198.0	176.2	168.2	165.3
3797.6	42.5°	3672.1	3302.3	1555.4	633.1	327.8	213.2	176.9	158.8	151.6	149.4
4162.3	45°	3988.3	3511.9	1557.6	575.0	285.0	189.3	161.7	146.5	142.1	139.2
4532.2	47.5°	4285.6	3690.3	1517.0	512.7	242.9	171.1	149.4	139.2	135.6	132.0
4903.4	50°	4562.6	3809.2	1419.1	440.2	209.6	156.6	140.0	132.7	129.1	125.5
5239.9	52.5°	4778.0	3828.0	1257.4	365.5	186.4	145.8	134.2	127.6	123.3	119.6
5511.8	55°	4873.7	3709.9	1027.5	295.9	168.2	136.3	128.4	121.8	116.7	113.1
5725.8	57.5°	4849.1	3461.1	801.3	237.8	150.8	126.9	121.1	116.7	110.9	105.1
5899.1	60°	4728.0	3128.3	604.0	198.0	134.9	116.7	113.1	109.5	101.5	92.8
5965.8	62.5°	4518.4	2709.9	430.7	163.9	117.5	105.1	103.7	100.8	89.2	73.2
5867.2	65°	4197.9	2201.5	290.1	136.3	100.8	92.1	92.8	87.7	72.5	54.4
5506.0	67.5°	3729.4	1609.8	185.6	111.7	84.1	76.9	77.6	74.7	61.6	46.4
4821.5	70°	3132.6	1066.0	121.1	84.8	67.4	59.5	63.8	64.5	52.2	37.7
3700.4	72.5°	2296.5	629.4	84.8	63.1	49.3	41.3	52.2	53.7	42.1	28.3
2226.2	75°	1308.9	298.8	63.8	45.7	30.5	29.0	40.6	40.6	29.0	18.9
963.7	77.5°	549.7	124.7	45.0	29.7	17.4	16.7	27.6	25.4	14.5	8.7
234.9	80°	158.8	55.8	23.9	14.5	7.3	6.5	10.9	8.0	3.6	1.5
89.2	82.5°	62.4	24.7	9.4	5.8	2.9	2.9	1.5	0.0	0.0	0.0
50.8	85°	37.0	10.2	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	9.4	2.2	1.5	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

180°
1258.1
1249.4
1195.8
1042.8
828.1
646.1
541.0
467.7
421.3
388.0
354.6
320.5
288.6
261.1
224.8
194.3
164.6
148.7
139.2
132.0
125.5
118.9
112.4
104.4
91.4
71.8
52.9
44.2
36.3
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