

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: P939846

Luminaire Tested: **GALN-SB2C-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939846  
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-SB2C-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

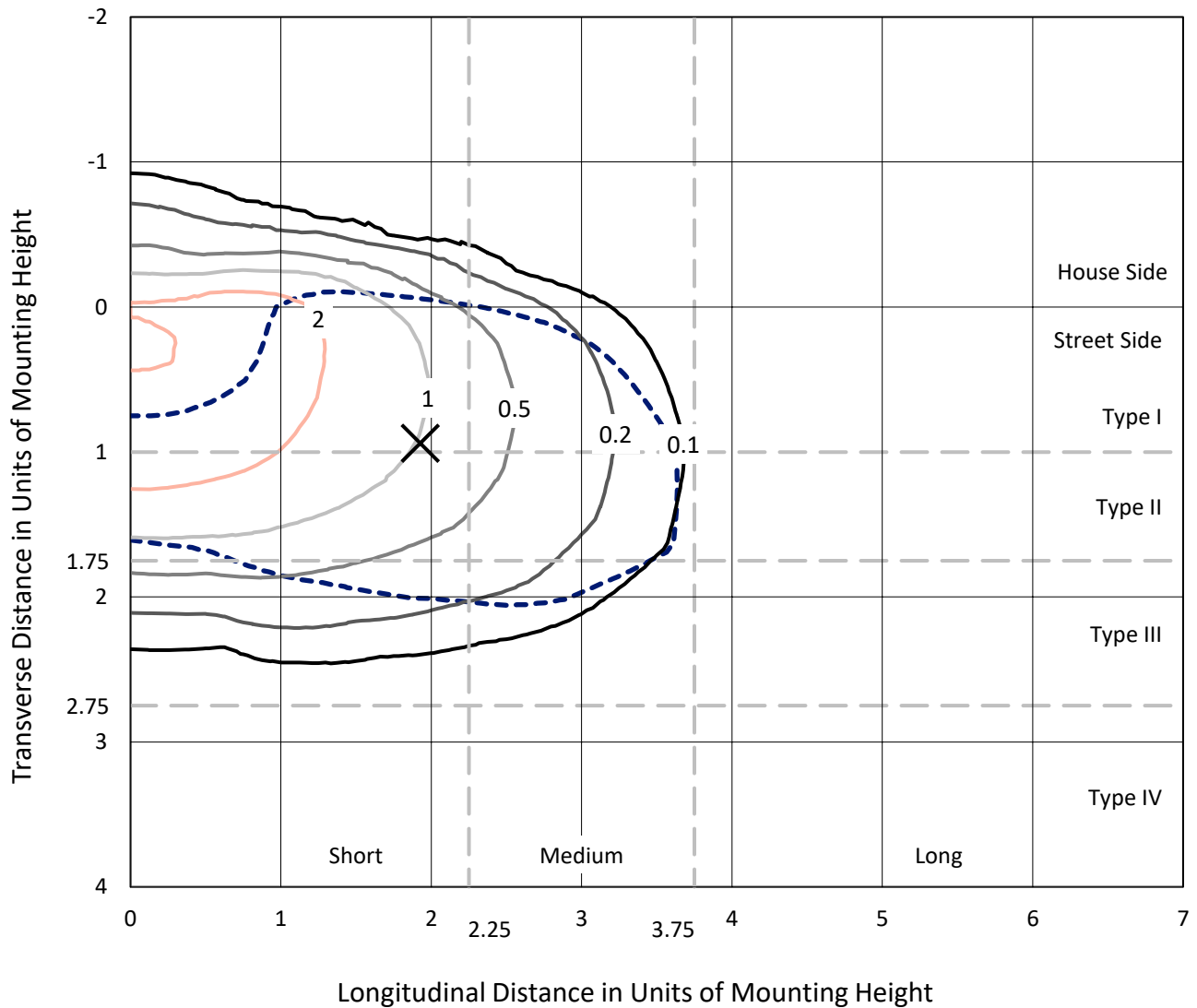
Lumens per Lamp: N/A  
Luminaire Lumens: 11235 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

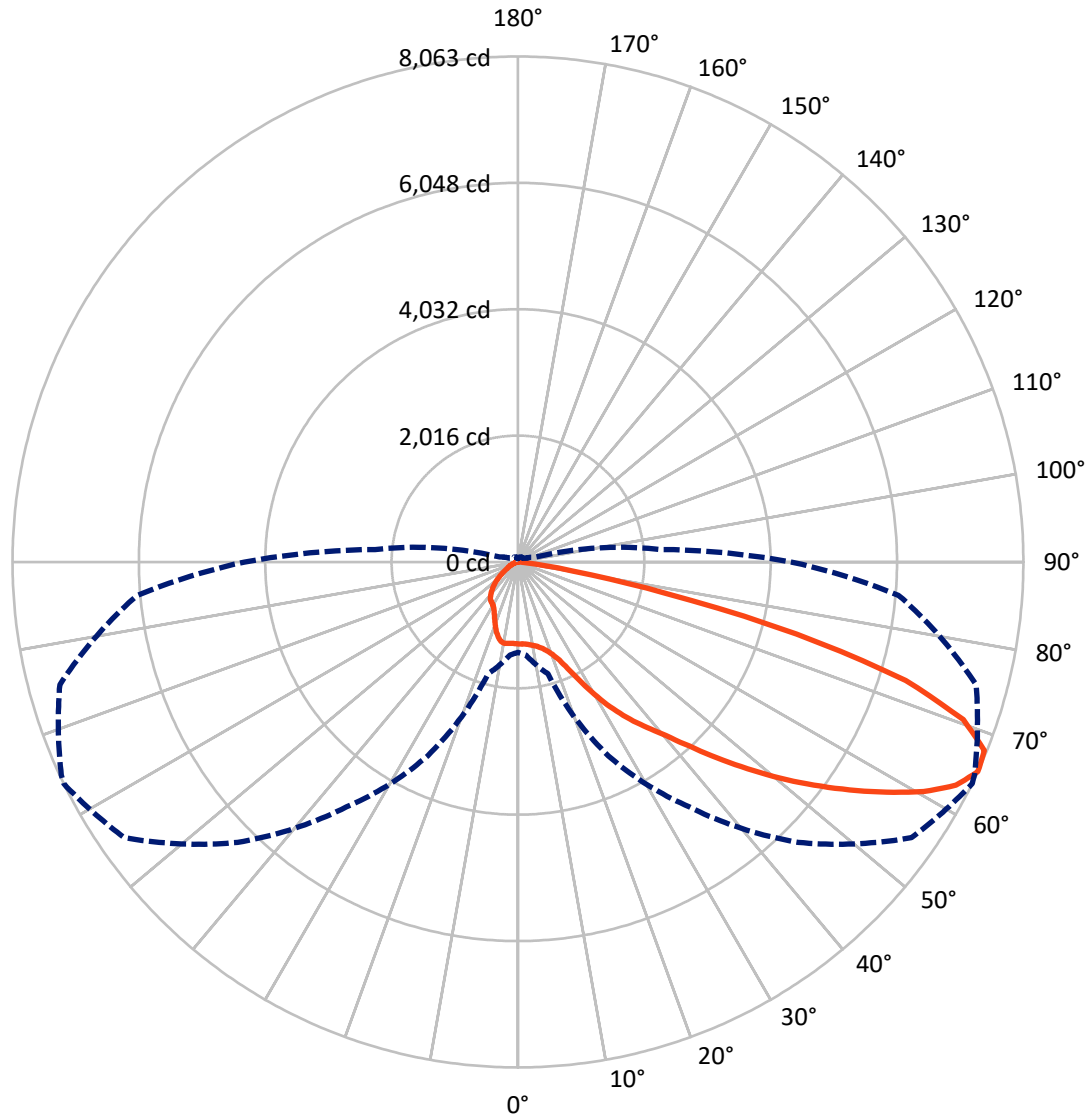
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1502.5	0.0	1502.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9732.5	0.0	9732.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11235.0	0.0	11235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	1.1
10°-20°	327.0	2.9
20°-30°	619.6	5.5
30°-40°	1253.8	11.2
40°-50°	2135.9	19.0
50°-60°	2904.7	25.9
60°-70°	2727.6	24.3
70°-80°	1092.8	9.7
80°-90°	52.9	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°	11235.0	100.0
0°-180°	11235.0	100.0

**Coefficient of Utilization**



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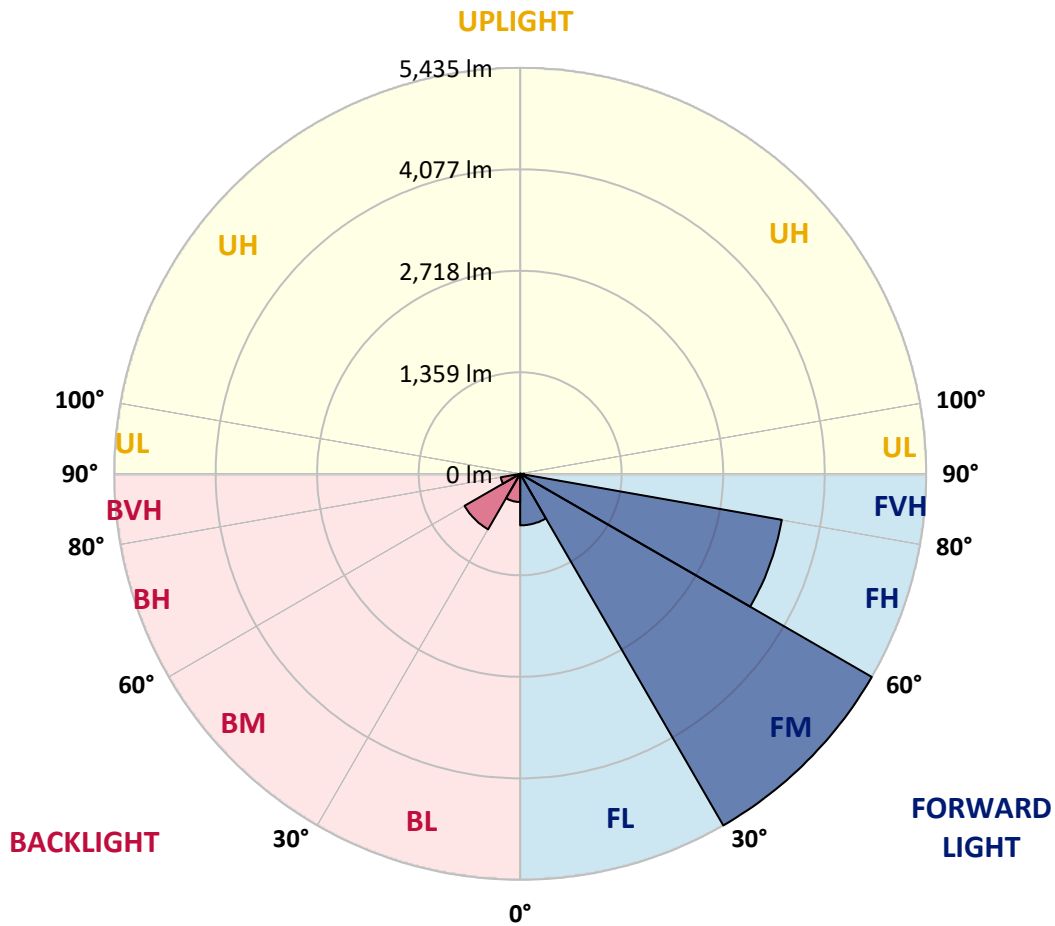
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.0	6.1			
FM (30°-60°)	5435.5	48.4			
FH (60°-80°)	3556.7	31.7			G2/5000
FVH (80°-90°)	50.4	0.4			G1/100
BL (0°-30°)	377.2	3.4	B1/500		
BM (30°-60°)	858.9	7.6	B1/1000		
BH (60°-80°)	263.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7
2.5°	1302.2	1311.3	1309.0	1306.7	1306.0	1307.5	1308.3	1307.5	1307.5	1307.5
5°	1277.4	1284.9	1284.9	1290.2	1297.7	1306.7	1313.5	1315.0	1316.5	1318.8
7.5°	1229.9	1235.9	1240.5	1257.8	1276.6	1300.7	1321.1	1331.6	1333.1	1341.4
10°	1197.5	1205.1	1212.6	1230.7	1257.8	1293.9	1328.6	1354.2	1358.0	1377.5
12.5°	1196.0	1203.6	1213.4	1232.9	1264.6	1303.0	1345.2	1382.1	1388.8	1417.5
15°	1211.8	1220.9	1229.9	1254.0	1287.9	1334.6	1379.8	1425.7	1432.5	1473.2
17.5°	1244.2	1256.3	1263.1	1287.2	1323.3	1375.3	1434.8	1487.5	1493.5	1541.0
20°	1308.3	1322.6	1324.8	1344.4	1379.8	1435.5	1506.3	1571.9	1579.4	1633.6
22.5°	1440.8	1461.1	1443.1	1452.9	1484.5	1540.2	1617.1	1699.9	1710.4	1772.2
25°	1674.3	1702.9	1656.2	1639.6	1653.2	1711.2	1807.6	1912.3	1924.3	1974.1
27.5°	2133.0	2096.1	2025.3	1956.0	1915.3	1948.4	2056.9	2186.4	2201.5	2249.7
30°	2636.8	2604.5	2508.8	2355.2	2258.8	2253.5	2353.7	2498.3	2515.6	2561.5
32.5°	3141.5	3110.6	3006.6	2817.6	2650.4	2567.6	2636.8	2797.3	2806.3	2835.7
35°	3637.8	3606.2	3502.2	3308.7	3103.1	2914.8	2901.2	3082.0	3085.0	3115.9
37.5°	4137.2	4110.8	4000.1	3810.3	3607.7	3347.8	3222.1	3351.6	3355.4	3385.5
40°	4493.4	4504.7	4428.6	4281.8	4107.8	3823.8	3582.1	3638.6	3616.0	3666.4
42.5°	4799.2	4821.8	4755.5	4681.7	4580.8	4330.7	4027.9	4018.2	3982.0	4009.1
45°	5063.6	5082.4	5022.9	5005.6	5003.3	4827.8	4515.2	4456.5	4406.0	4400.8
47.5°	5160.7	5196.9	5222.5	5280.5	5393.4	5319.6	5019.1	4928.0	4871.5	4830.1
50°	5197.6	5236.0	5323.4	5492.1	5759.5	5791.1	5520.7	5418.3	5349.0	5273.7
52.5°	5147.9	5216.4	5333.9	5617.9	6005.8	6169.2	6002.0	5912.4	5833.3	5710.5
55°	4854.9	4923.5	5163.7	5616.4	6128.5	6434.3	6456.9	6417.0	6328.1	6134.6
57.5°	4237.3	4339.0	4719.4	5425.1	6126.3	6662.5	6902.8	6931.4	6832.0	6554.8
60°	3381.7	3519.6	3983.5	5001.0	5937.2	6786.0	7293.7	7436.8	7331.3	6969.1
62.5°	2359.7	2519.3	2958.4	4336.7	5504.9	6697.2	7579.1	7843.5	7763.7	7339.6
65°	1439.3	1490.5	1844.5	3412.6	4769.8	6325.1	7667.3	8063.4	8037.1	7566.3
67.5°	958.8	1001.7	1103.4	2340.1	3702.6	5581.7	7456.4	8025.0	8032.5	7529.4
70°	577.7	614.6	680.9	1361.0	2399.6	4418.1	6803.4	7535.4	7579.1	7036.1
72.5°	238.0	262.9	323.1	616.8	1242.7	2804.0	5417.5	6469.7	6571.4	5916.1
75°	134.8	147.6	189.8	309.6	539.3	1306.7	3281.6	4592.8	4742.7	4077.7
77.5°	89.6	95.7	122.8	200.3	303.5	445.9	1402.4	2392.8	2679.0	2227.1
80°	60.3	65.5	84.4	134.1	197.3	191.3	446.6	886.5	1090.6	765.2
82.5°	40.7	41.4	60.3	88.1	125.0	92.6	131.8	275.7	346.5	221.4
85°	23.3	22.6	44.4	51.2	55.7	38.4	39.9	82.8	108.5	93.4
87.5°	3.0	4.5	17.3	13.6	7.5	8.3	8.3	14.3	21.1	22.6
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°
1306.7	0°	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7	1306.7
1308.3	2.5°	1308.3	1307.5	1305.2	1303.0	1297.7	1294.7	1296.2	1294.7	1293.9	1294.7
1318.0	5°	1318.0	1315.8	1309.8	1302.2	1291.7	1278.9	1270.6	1258.5	1247.2	1240.5
1344.4	7.5°	1344.4	1342.1	1333.9	1312.8	1278.9	1225.4	1176.4	1133.5	1101.1	1082.3
1386.6	10°	1386.6	1382.8	1370.0	1323.3	1234.4	1117.7	1020.5	940.0	887.2	862.4
1436.3	12.5°	1436.3	1431.8	1409.2	1313.5	1150.1	967.8	833.8	744.1	695.2	673.3
1493.5	15°	1495.0	1489.0	1444.6	1266.8	1027.3	802.1	679.4	612.3	580.7	561.1
1566.6	17.5°	1568.1	1557.6	1470.9	1196.8	894.0	675.6	584.5	534.0	506.1	487.3
1662.2	20°	1663.0	1645.7	1492.0	1113.2	771.2	595.8	520.4	478.3	457.2	440.6
1797.8	22.5°	1795.6	1770.7	1517.6	1022.8	684.6	540.8	473.0	442.1	424.8	406.0
1986.9	25°	1959.7	1930.4	1549.3	939.2	625.1	493.3	438.3	412.7	392.4	370.6
2234.7	27.5°	2189.5	2136.7	1586.9	870.7	573.9	452.7	406.7	378.1	354.7	336.7
2515.6	30°	2445.5	2358.9	1620.1	829.2	527.2	415.0	365.3	336.7	314.8	302.0
2767.9	32.5°	2688.1	2570.6	1641.9	811.2	485.0	372.1	320.1	289.2	272.6	268.9
3014.9	35°	2917.0	2761.9	1639.6	793.8	447.4	329.1	275.7	244.0	231.2	233.5
3280.8	37.5°	3180.6	2966.0	1623.8	766.7	416.5	290.0	237.2	209.4	198.1	198.8
3603.9	40°	3487.2	3201.7	1614.0	715.5	382.6	253.8	205.6	183.0	174.7	171.7
3944.3	42.5°	3814.0	3429.9	1615.5	657.5	340.4	221.4	183.8	164.9	157.4	155.2
4323.2	45°	4142.4	3647.6	1617.8	597.3	296.0	196.6	168.0	152.1	147.6	144.6
4707.3	47.5°	4451.2	3832.9	1575.6	532.5	252.3	177.7	155.2	144.6	140.8	137.1
5092.9	50°	4738.9	3956.4	1474.0	457.2	217.7	162.7	145.4	137.8	134.1	130.3
5442.4	52.5°	4962.6	3976.0	1306.0	379.6	193.6	151.4	139.3	132.6	128.0	124.3
5724.8	55°	5062.0	3853.2	1067.2	307.3	174.7	141.6	133.3	126.5	121.3	117.5
5947.0	57.5°	5036.4	3594.9	832.3	247.0	156.7	131.8	125.8	121.3	115.2	109.2
6127.0	60°	4910.7	3249.2	627.4	205.6	140.1	121.3	117.5	113.7	105.4	96.4
6196.3	62.5°	4693.0	2814.6	447.4	170.2	122.0	109.2	107.7	104.7	92.6	76.1
6093.9	65°	4360.1	2286.6	301.3	141.6	104.7	95.7	96.4	91.1	75.3	56.5
5718.8	67.5°	3873.5	1672.0	192.8	116.0	87.4	79.8	80.6	77.6	64.0	48.2
5007.8	70°	3253.7	1107.2	125.8	88.1	70.0	61.8	66.3	67.0	54.2	39.2
3843.4	72.5°	2385.3	653.8	88.1	65.5	51.2	42.9	54.2	55.7	43.7	29.4
2312.2	75°	1359.5	310.3	66.3	47.4	31.6	30.1	42.2	42.2	30.1	19.6
1001.0	77.5°	570.9	129.5	46.7	30.9	18.1	17.3	28.6	26.4	15.1	9.0
244.0	80°	164.9	58.0	24.9	15.1	7.5	6.8	11.3	8.3	3.8	1.5
92.6	82.5°	64.8	25.6	9.8	6.0	3.0	3.0	1.5	0.0	0.0	0.0
52.7	85°	38.4	10.5	4.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	9.8	2.3	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

<u>180°</u>
1306.7
1297.7
1242.0
1083.1
860.1
671.1
561.9
485.8
437.6
402.9
368.3
332.9
299.8
271.1
233.5
201.8
171.0
154.4
144.6
137.1
130.3
123.5
116.7
108.5
94.9
74.6
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