

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: P939766

Luminaire Tested: **GALN-SB2C-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939766  
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-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

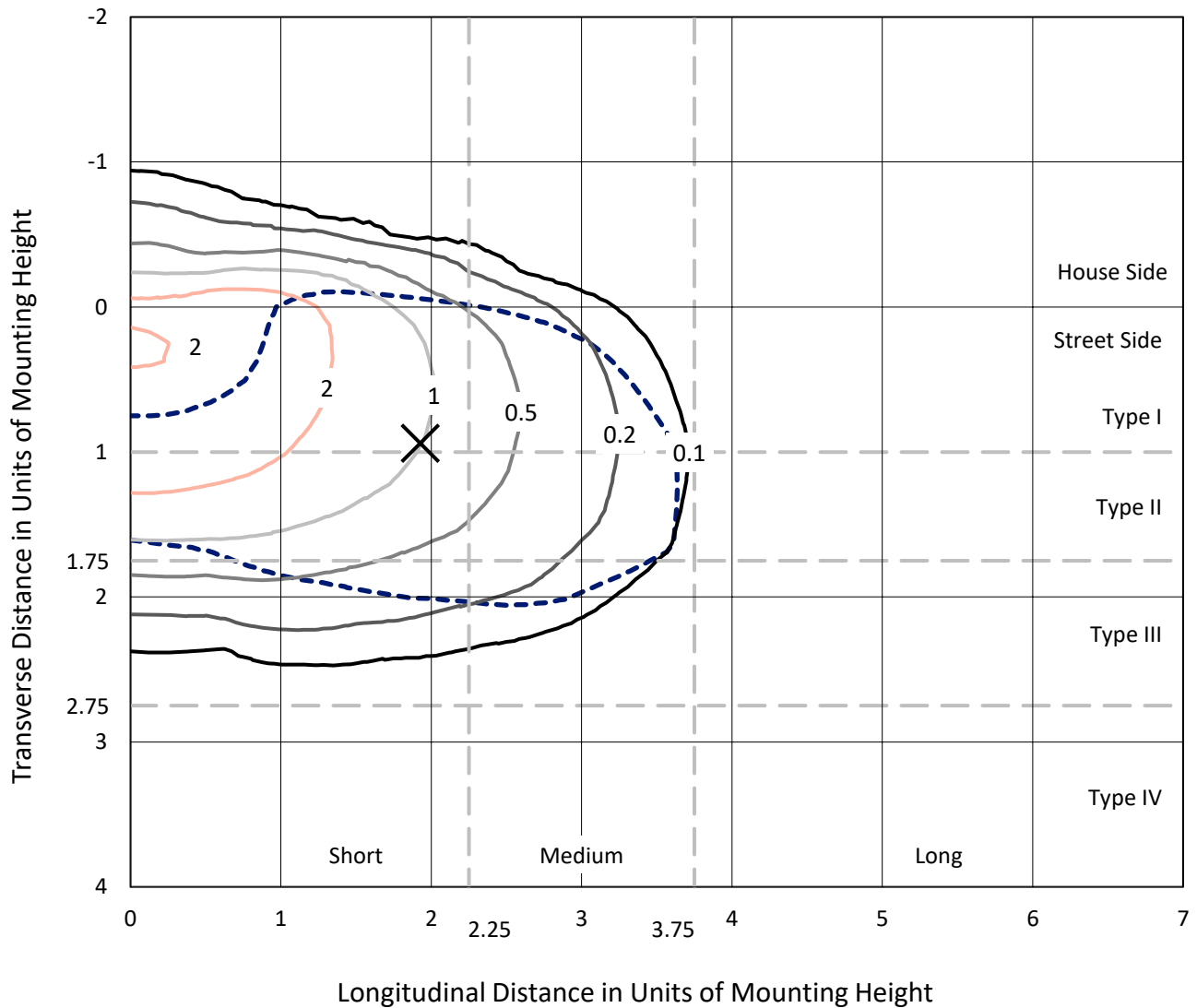
Lumens per Lamp: N/A  
Luminaire Lumens: 11746 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

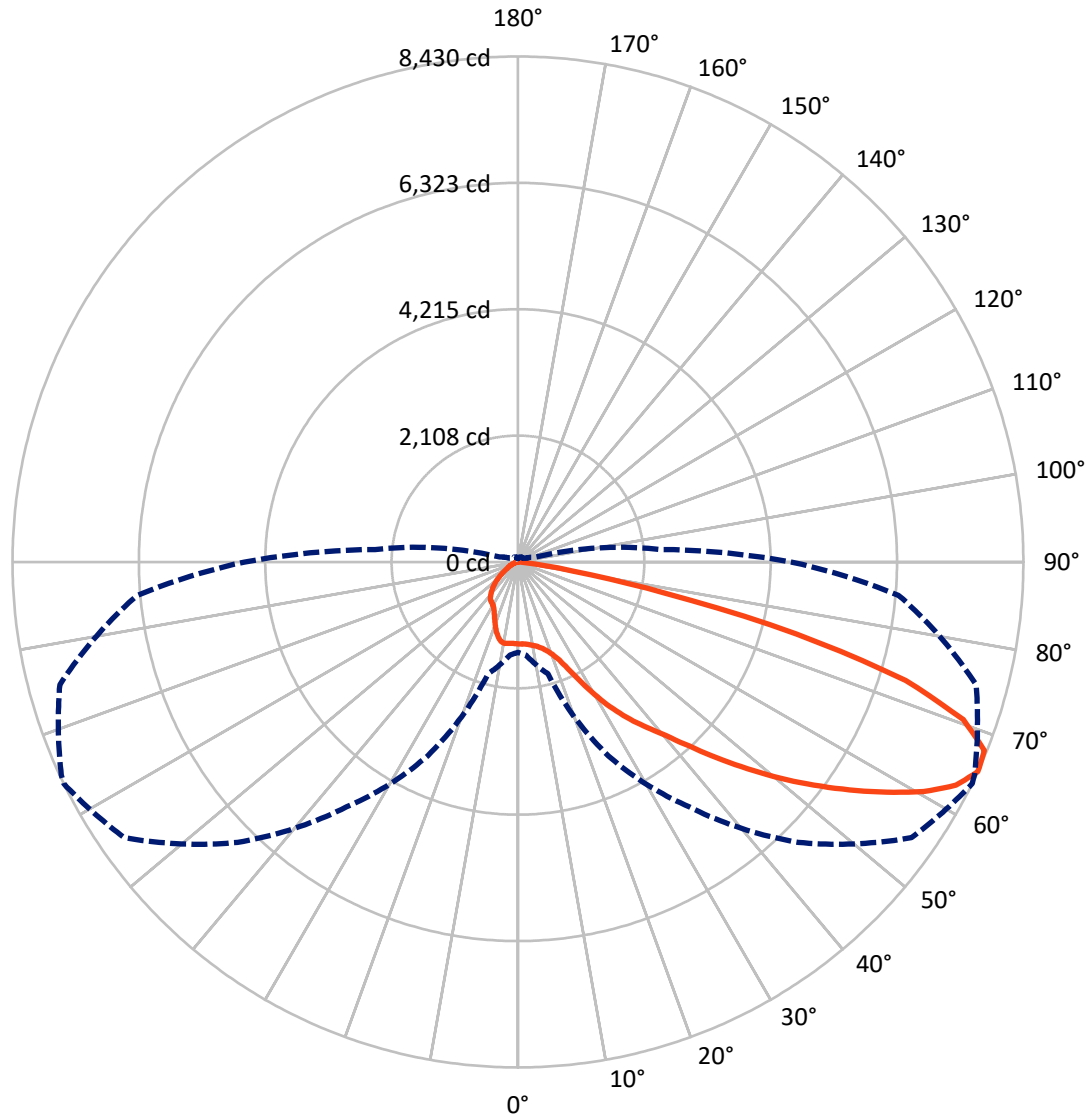
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1570.8	0.0	1570.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10175.2	0.0	10175.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11746.0	0.0	11746.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	1.1
10°-20°	341.9	2.9
20°-30°	647.8	5.5
30°-40°	1310.9	11.2
40°-50°	2233.1	19.0
50°-60°	3036.8	25.9
60°-70°	2851.7	24.3
70°-80°	1142.5	9.7
80°-90°	55.4	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°	11746.0	100.0
0°-180°	11746.0	100.0

**Coefficient of Utilization**



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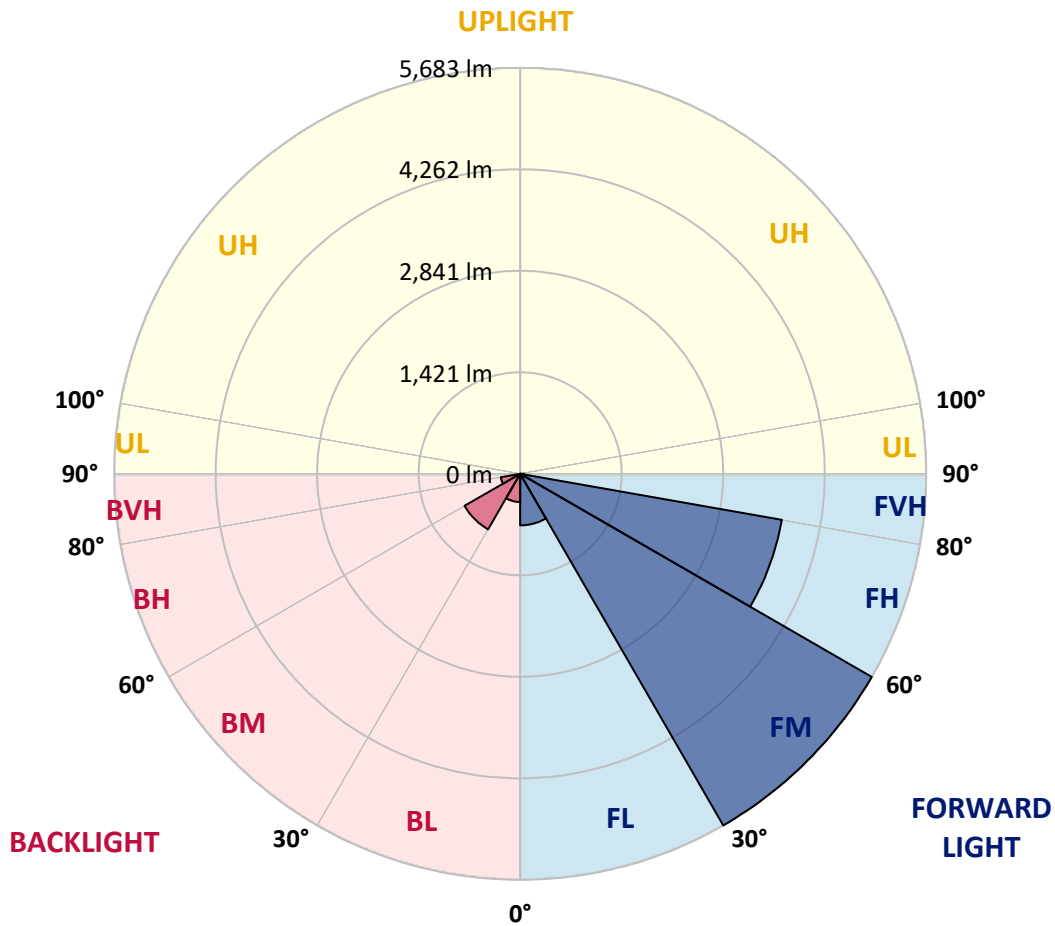
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.3	6.1			
FM (30°-60°)	5682.7	48.4			
FH (60°-80°)	3718.5	31.7			G2/5000
FVH (80°-90°)	52.6	0.4			G1/100
BL (0°-30°)	394.4	3.4	B1/500		
BM (30°-60°)	898.0	7.6	B1/1000		
BH (60°-80°)	275.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
2.5°	1361.5	1370.9	1368.5	1366.2	1365.4	1367.0	1367.8	1367.0	1367.0	1367.0
5°	1335.5	1343.3	1343.3	1348.9	1356.7	1366.2	1373.3	1374.8	1376.4	1378.8
7.5°	1285.9	1292.2	1296.9	1315.0	1334.7	1359.9	1381.1	1392.2	1393.7	1402.4
10°	1252.0	1259.9	1267.8	1286.7	1315.0	1352.8	1389.0	1415.8	1419.7	1440.2
12.5°	1250.4	1258.3	1268.5	1289.0	1322.1	1362.2	1406.3	1444.9	1452.0	1481.9
15°	1267.0	1276.4	1285.9	1311.1	1346.5	1395.3	1442.6	1490.6	1497.7	1540.2
17.5°	1300.8	1313.4	1320.5	1345.7	1383.5	1437.8	1500.0	1555.2	1561.5	1611.1
20°	1367.8	1382.7	1385.1	1405.6	1442.6	1500.8	1574.8	1643.4	1651.2	1707.9
22.5°	1506.3	1527.6	1508.7	1518.9	1552.0	1610.3	1690.6	1777.2	1788.2	1852.8
25°	1750.4	1780.4	1731.5	1714.2	1728.4	1789.0	1889.8	1999.3	2011.9	2063.8
27.5°	2230.0	2191.4	2117.4	2044.9	2002.4	2037.1	2150.5	2285.9	2301.6	2352.0
30°	2756.8	2722.9	2622.9	2462.3	2361.5	2356.0	2460.7	2611.9	2630.0	2678.0
32.5°	3284.3	3252.1	3143.4	2945.8	2770.9	2684.3	2756.8	2924.5	2933.9	2964.7
35°	3803.3	3770.2	3661.5	3459.2	3244.2	3047.3	3033.2	3222.1	3225.3	3257.6
37.5°	4325.3	4297.8	4182.0	3983.6	3771.8	3500.1	3368.6	3504.0	3508.0	3539.5
40°	4697.8	4709.6	4630.1	4476.5	4294.6	3997.8	3745.0	3804.0	3780.4	3833.2
42.5°	5017.5	5041.1	4971.8	4894.6	4789.1	4527.7	4211.1	4200.9	4163.1	4191.5
45°	5293.9	5313.5	5251.3	5233.2	5230.9	5047.4	4720.6	4659.2	4606.4	4600.9
47.5°	5395.4	5433.2	5460.0	5520.6	5638.7	5561.6	5247.4	5152.1	5093.1	5049.8
50°	5434.0	5474.2	5565.5	5741.9	6021.4	6054.5	5771.8	5664.7	5592.3	5513.5
52.5°	5382.0	5453.7	5576.5	5873.4	6278.9	6449.8	6275.0	6181.3	6098.6	5970.3
55°	5075.7	5147.4	5398.6	5871.8	6407.3	6727.0	6750.6	6708.9	6615.9	6413.6
57.5°	4430.1	4536.4	4934.0	5671.8	6404.9	6965.6	7216.7	7246.7	7142.7	6853.0
60°	3535.5	3679.6	4164.7	5228.5	6207.3	7094.7	7625.4	7775.0	7664.8	7286.0
62.5°	2467.0	2633.9	3093.0	4534.0	5755.3	7001.8	7923.9	8200.2	8116.8	7673.5
65°	1504.8	1558.3	1928.4	3567.8	4986.8	6612.8	8016.0	8430.2	8402.6	7910.5
67.5°	1002.4	1047.3	1153.6	2446.5	3871.0	5835.6	7795.5	8390.0	8397.9	7871.9
70°	604.0	642.5	711.8	1422.9	2508.7	4619.0	7112.8	7878.2	7923.9	7356.1
72.5°	248.8	274.8	337.8	644.9	1299.3	2931.6	5663.9	6764.0	6870.3	6185.2
75°	140.9	154.3	198.4	323.6	563.8	1366.2	3430.8	4801.7	4958.4	4263.1
77.5°	93.7	100.0	128.4	209.5	317.3	466.2	1466.2	2501.6	2800.9	2328.4
80°	63.0	68.5	88.2	140.2	206.3	200.0	466.9	926.8	1140.2	800.0
82.5°	42.5	43.3	63.0	92.1	130.7	96.9	137.8	288.2	362.2	231.5
85°	24.4	23.6	46.5	53.5	58.3	40.2	41.7	86.6	113.4	97.6
87.5°	3.1	4.7	18.1	14.2	7.9	8.7	8.7	15.0	22.0	23.6
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°
1366.2	0°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
1367.8	2.5°	1367.8	1367.0	1364.6	1362.2	1356.7	1353.6	1355.2	1353.6	1352.8	1353.6
1378.0	5°	1378.0	1375.6	1369.3	1361.5	1350.4	1337.0	1328.4	1315.8	1304.0	1296.9
1405.6	7.5°	1405.6	1403.2	1394.5	1372.5	1337.0	1281.1	1230.0	1185.1	1151.2	1131.5
1449.6	10°	1449.6	1445.7	1432.3	1383.5	1290.6	1168.5	1067.0	982.7	927.6	901.6
1501.6	12.5°	1501.6	1496.9	1473.3	1373.3	1202.4	1011.8	871.7	778.0	726.8	704.0
1561.5	15°	1563.0	1556.7	1510.3	1324.4	1074.0	838.6	710.3	640.2	607.1	586.6
1637.8	17.5°	1639.4	1628.4	1537.8	1251.2	934.7	706.3	611.0	558.3	529.1	509.5
1737.8	20°	1738.6	1720.5	1559.9	1163.8	806.3	622.9	544.1	500.0	478.0	460.6
1879.6	22.5°	1877.2	1851.2	1586.7	1069.3	715.8	565.4	494.5	462.2	444.1	424.4
2077.2	25°	2048.9	2018.2	1619.7	981.9	653.6	515.8	458.3	431.5	410.2	387.4
2336.3	27.5°	2289.0	2233.9	1659.1	910.3	600.0	473.2	425.2	395.3	370.9	352.0
2630.0	30°	2556.8	2466.2	1693.8	867.0	551.2	433.9	381.9	352.0	329.1	315.8
2893.8	32.5°	2810.3	2687.5	1716.6	848.1	507.1	389.0	334.7	302.4	285.0	281.1
3152.1	35°	3049.7	2887.5	1714.2	829.9	467.7	344.1	288.2	255.1	241.7	244.1
3430.0	37.5°	3325.3	3100.9	1697.7	801.6	435.4	303.2	248.0	218.9	207.1	207.9
3767.8	40°	3645.8	3347.3	1687.5	748.1	400.0	265.4	215.0	191.3	182.7	179.5
4123.7	42.5°	3987.5	3585.9	1689.0	687.4	355.9	231.5	192.1	172.4	164.6	162.2
4519.8	45°	4330.8	3813.5	1691.4	624.4	309.5	205.5	175.6	159.1	154.3	151.2
4921.4	47.5°	4653.7	4007.2	1647.3	556.7	263.8	185.8	162.2	151.2	147.2	143.3
5324.6	50°	4954.5	4136.3	1541.0	478.0	227.6	170.1	152.0	144.1	140.2	136.2
5689.9	52.5°	5188.3	4156.8	1365.4	396.9	202.4	158.3	145.7	138.6	133.9	129.9
5985.2	55°	5292.3	4028.5	1115.8	321.3	182.7	148.0	139.4	132.3	126.8	122.8
6217.5	57.5°	5265.5	3758.4	870.1	258.3	163.8	137.8	131.5	126.8	120.5	114.2
6405.7	60°	5134.0	3396.9	655.9	215.0	146.5	126.8	122.8	118.9	110.2	100.8
6478.1	62.5°	4906.4	2942.6	467.7	178.0	127.6	114.2	112.6	109.5	96.9	79.5
6371.1	65°	4558.4	2390.6	315.0	148.0	109.5	100.0	100.8	95.3	78.7	59.1
5978.9	67.5°	4049.7	1748.1	201.6	121.3	91.3	83.5	84.3	81.1	66.9	50.4
5235.6	70°	3401.7	1157.5	131.5	92.1	73.2	64.6	69.3	70.1	56.7	40.9
4018.2	72.5°	2493.8	683.5	92.1	68.5	53.5	44.9	56.7	58.3	45.7	30.7
2417.4	75°	1421.3	324.4	69.3	49.6	33.1	31.5	44.1	44.1	31.5	20.5
1046.5	77.5°	596.9	135.4	48.8	32.3	18.9	18.1	29.9	27.6	15.7	9.4
255.1	80°	172.4	60.6	26.0	15.7	7.9	7.1	11.8	8.7	3.9	1.6
96.9	82.5°	67.7	26.8	10.2	6.3	3.1	3.1	1.6	0.0	0.0	0.0
55.1	85°	40.2	11.0	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	10.2	2.4	1.6	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°  
1366.2  
1356.7  
1298.5  
1132.3  
899.2  
701.6  
587.4  
507.9  
457.5  
421.3  
385.1  
348.0  
313.4  
283.5  
244.1  
211.0  
178.7  
161.4  
151.2  
143.3  
136.2  
129.1  
122.1  
113.4  
99.2  
78.0  
57.5  
48.0  
39.4  
29.1  
18.9  
9.4  
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