

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: P957130

Luminaire Tested: **GALN-SB9C-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957130  
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-SB9C-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

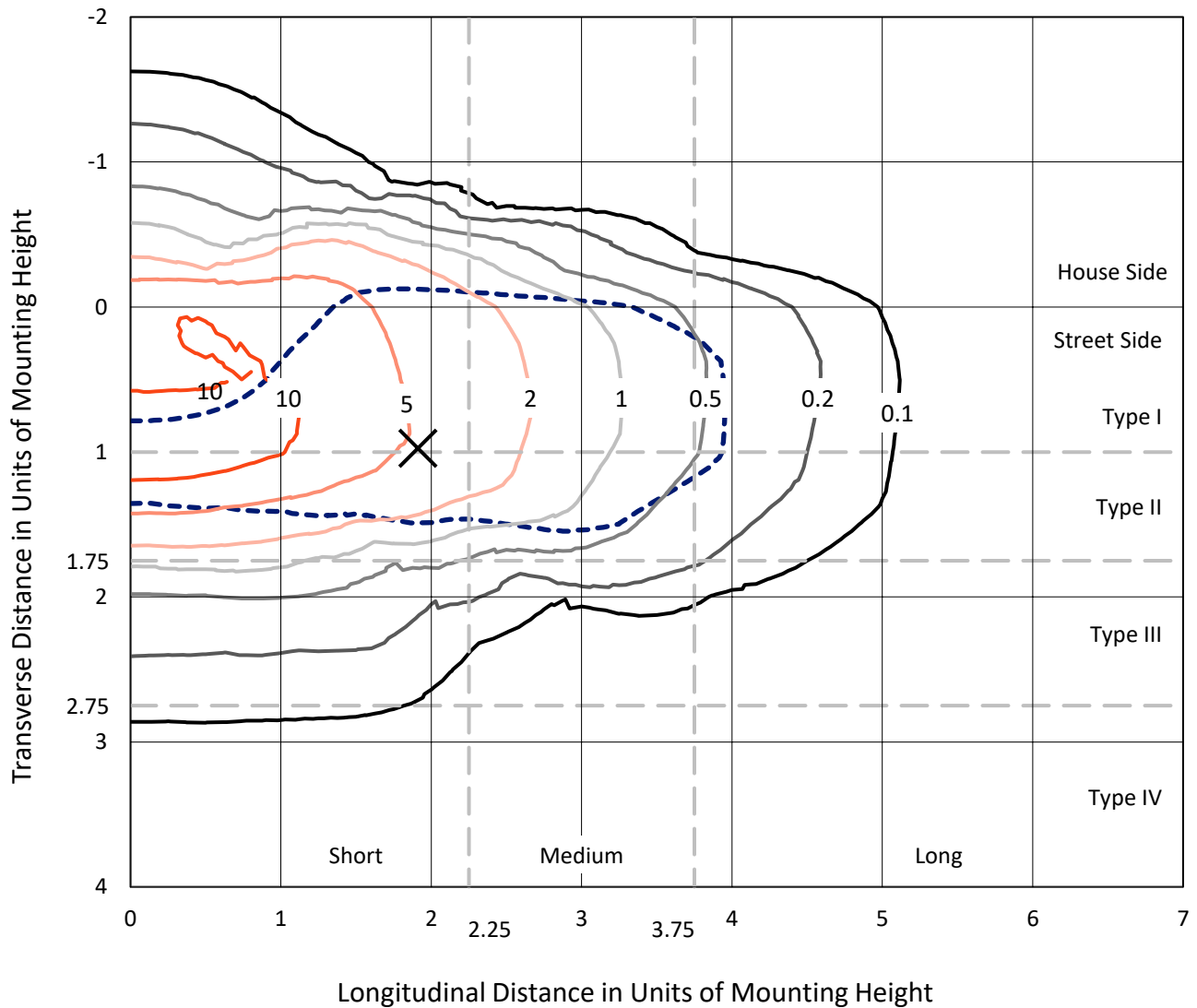
Lumens per Lamp: N/A  
Luminaire Lumens: 45332 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

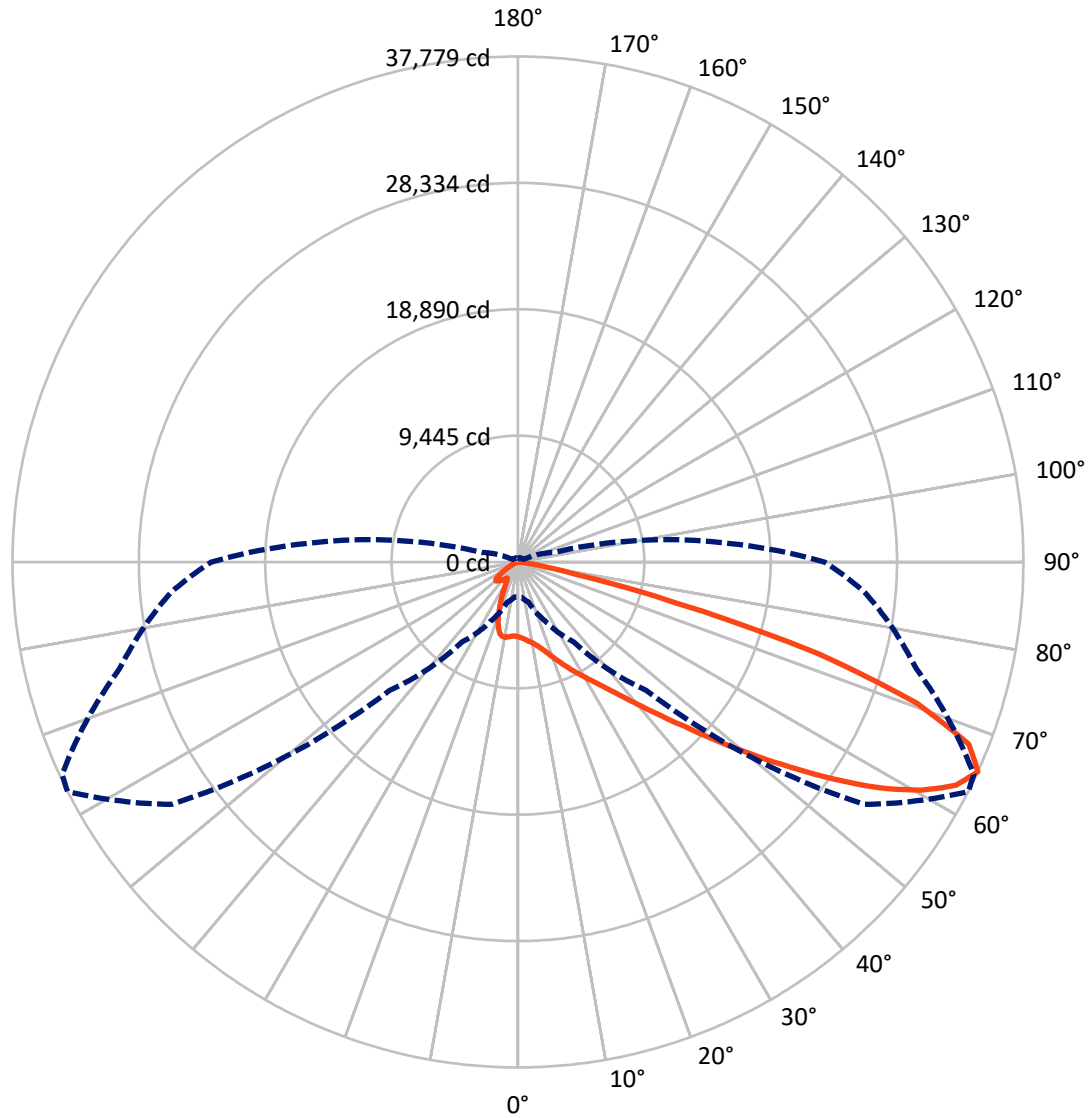
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	6663.5	0.0	6663.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	38668.6	0.0	38668.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	45332.0	0.0	45332.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.1	1.2
10°-20°	1462.6	3.2
20°-30°	2546.8	5.6
30°-40°	4590.3	10.1
40°-50°	9104.0	20.1
50°-60°	12401.2	27.4
60°-70°	9898.6	21.8
70°-80°	4479.3	9.9
80°-90°	322.0	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°	45332.0	100.0
0°-180°	45332.0	100.0



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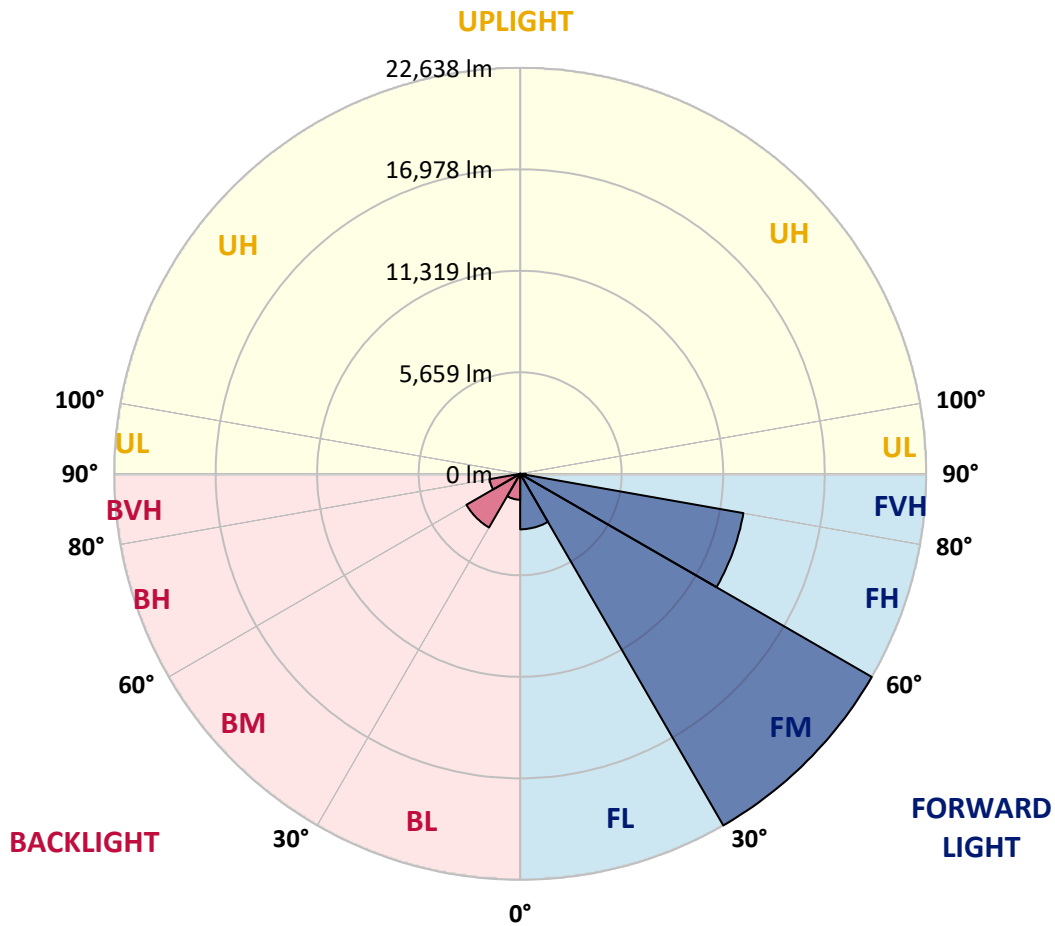
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3094.5	6.8			
FM (30°-60°)	22637.7	49.9			
FH (60°-80°)	12638.3	27.9			G5
FVH (80°-90°)	298.1	0.7			G3/500
BL (0°-30°)	1442.1	3.2	B3/2500		
BM (30°-60°)	3457.9	7.6	B3/5000		
BH (60°-80°)	1739.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8
2.5°	5725.8	5710.2	5732.0	5722.7	5716.5	5704.0	5697.7	5691.5	5679.0	5669.7
5°	5741.4	5732.0	5753.9	5772.6	5791.3	5810.0	5819.4	5831.8	5819.4	5794.4
7.5°	5610.4	5604.2	5651.0	5707.1	5791.3	5863.0	5941.0	5984.7	5987.8	5978.4
10°	5601.1	5585.5	5632.2	5700.9	5810.0	5937.9	6075.1	6168.7	6181.1	6221.7
12.5°	5747.6	5732.0	5797.5	5872.4	5984.7	6118.8	6287.2	6418.1	6436.9	6493.0
15°	5994.0	5972.2	6047.0	6143.7	6287.2	6440.0	6617.7	6736.2	6751.8	6820.4
17.5°	6280.9	6259.1	6346.4	6449.3	6605.3	6814.2	7020.0	7151.0	7169.7	7213.4
20°	6648.9	6620.9	6689.5	6783.0	6948.3	7197.8	7444.2	7631.3	7628.2	7628.2
22.5°	7076.2	7032.5	7091.8	7166.6	7322.5	7625.1	7952.5	8173.9	8173.9	8086.6
25°	7534.6	7491.0	7556.4	7625.1	7762.3	8105.3	8488.9	8763.4	8775.8	8626.1
27.5°	8108.4	8052.3	8102.2	8183.3	8264.4	8613.7	9069.0	9387.1	9393.3	9162.5
30°	9212.4	9053.4	8897.5	8810.1	8847.6	9193.7	9680.2	10032.6	10063.8	9745.7
32.5°	11233.3	11202.1	10653.2	9936.0	9561.7	9817.5	10363.2	10787.3	10806.1	10397.5
35°	14373.8	14336.4	13453.8	12087.8	10868.4	10653.2	11192.8	11694.9	11682.4	11220.8
37.5°	18122.4	18088.1	16924.8	15097.3	13123.2	11916.3	12262.5	12789.5	12867.5	12262.5
40°	21325.2	21197.3	20461.3	18699.3	16117.1	14012.0	13784.4	14133.6	14214.7	13497.4
42.5°	23751.5	23642.3	23268.1	22167.2	19740.9	17111.9	15577.6	15711.7	15802.1	14941.4
45°	25008.3	24983.4	25133.1	25030.1	23433.4	20916.7	18141.1	17582.8	17617.2	16541.2
47.5°	25186.1	25173.6	25856.6	26823.4	26608.2	25207.9	21431.2	19915.6	19794.0	18346.9
50°	24138.2	24113.3	25423.1	27235.0	28728.8	28813.0	25167.4	22544.6	22276.4	20215.0
52.5°	20791.9	20785.7	22937.5	25953.3	29474.2	31969.1	28859.8	25432.4	24983.4	22192.2
55°	15998.6	16114.0	18580.8	22145.4	28114.5	33487.9	32174.9	28638.4	27949.2	24181.9
57.5°	11333.1	11501.5	13940.3	17115.1	23898.1	32589.7	34417.2	31850.6	31108.4	26165.3
60°	6087.6	6237.3	8679.2	12468.3	17779.3	29240.3	35599.2	34638.6	33937.0	28049.0
62.5°	3627.0	3676.9	4687.3	8049.2	12025.4	22338.8	35097.1	36762.4	36185.5	29630.1
65°	2604.1	2613.4	3121.8	4915.0	7300.7	13572.3	31576.1	37779.1	37601.3	30821.4
67.5°	2192.4	2186.2	2398.2	3265.2	4974.2	6798.6	24200.6	36341.4	37096.1	31576.1
70°	1880.5	1889.9	2139.4	2392.0	3739.2	3848.4	12031.7	31641.6	33250.9	31775.7
72.5°	1400.3	1431.5	1662.2	2179.9	2822.4	2647.7	4154.0	23461.5	26371.1	29938.9
75°	988.6	1004.2	1169.5	1833.8	2105.1	1927.3	2120.7	12128.4	15858.2	22953.1
77.5°	760.9	789.0	885.7	1281.8	2073.9	1353.5	1297.4	4197.7	6449.3	13865.4
80°	411.7	461.6	639.3	926.2	1456.4	957.4	642.4	1671.6	2186.2	6483.6
82.5°	212.1	237.0	446.0	667.4	829.6	835.8	318.1	695.5	901.3	2002.2
85°	84.2	102.9	299.4	368.0	427.3	411.7	143.5	280.7	324.3	555.1
87.5°	18.7	31.2	109.2	84.2	81.1	87.3	34.3	65.5	62.4	65.5
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°
5594.8	0°	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8	5594.8
5632.2	2.5°	5629.1	5616.7	5582.4	5544.9	5501.3	5476.3	5460.7	5457.6	5435.8	5420.2
5757.0	5°	5722.7	5710.2	5644.7	5566.8	5482.6	5417.1	5354.7	5298.6	5217.5	5201.9
5937.9	7.5°	5909.8	5875.5	5769.5	5663.4	5504.4	5314.1	5083.4	4818.3	4581.3	4509.5
6178.0	10°	6140.6	6093.8	5959.7	5772.6	5420.2	4902.5	4344.3	3826.6	3414.9	3299.5
6461.8	12.5°	6402.6	6362.0	6184.2	5838.1	5067.8	4129.1	3274.6	2632.1	2232.9	2133.1
6764.3	15°	6714.4	6655.2	6408.8	5738.3	4437.8	3137.3	2248.5	1868.1	1724.6	1705.9
7110.5	17.5°	7045.0	6948.3	6608.4	5379.6	3589.5	2229.8	1737.1	1627.9	1565.6	1546.8
7459.8	20°	7347.5	7222.8	6726.9	4837.0	2682.0	1737.1	1556.2	1484.5	1428.3	1406.5
7809.1	22.5°	7650.0	7472.2	6726.9	4097.9	2011.5	1540.6	1428.3	1362.8	1297.4	1269.3
8183.3	25°	7965.0	7728.0	6608.4	3274.6	1618.6	1412.7	1306.7	1235.0	1178.8	1144.5
8538.8	27.5°	8270.6	7943.2	6337.1	2494.9	1440.8	1300.5	1194.4	1125.8	1072.8	1047.9
8925.5	30°	8560.6	8155.2	5956.6	1893.0	1325.4	1191.3	1091.5	1032.3	979.3	954.3
9427.6	32.5°	8953.6	8423.4	5551.2	1553.1	1225.6	1088.4	998.0	941.8	895.0	876.3
10079.4	35°	9499.4	8819.5	5201.9	1525.0	1141.4	1004.2	913.8	860.7	814.0	798.4
10921.4	37.5°	10272.8	9458.8	5017.9	1712.1	1072.8	929.4	845.1	789.0	745.4	732.9
11991.1	40°	11227.1	10325.8	5117.7	1899.2	1026.0	863.9	782.8	726.6	689.2	673.6
13219.9	42.5°	12359.1	11395.5	5669.7	2042.7	994.8	807.7	723.5	661.1	636.2	630.0
14613.9	45°	13659.6	12571.2	6514.8	2195.5	944.9	754.7	664.3	617.5	598.8	595.7
16129.6	47.5°	15137.8	13862.3	7494.1	2385.8	895.0	704.8	617.5	586.3	570.7	564.5
17710.7	50°	16603.6	15162.8	8501.4	2491.8	854.5	658.0	580.1	555.1	542.6	539.5
19382.3	52.5°	18138.0	16500.7	9315.4	2392.0	820.2	620.6	548.9	530.2	517.7	514.6
20922.9	55°	19600.6	17582.8	9455.7	2030.2	751.6	583.2	514.6	505.2	489.6	489.6
22485.3	57.5°	20860.5	18125.5	8464.0	1490.7	683.0	527.0	480.3	470.9	458.4	455.3
23895.0	60°	22017.5	17969.6	6533.5	1004.2	608.1	470.9	436.6	430.4	417.9	402.3
25120.6	62.5°	22669.3	17283.5	4469.0	654.9	533.3	411.7	386.7	383.6	355.5	324.3
26028.1	65°	22915.7	15873.8	2788.1	477.2	446.0	352.4	333.7	327.5	286.9	252.6
26542.7	67.5°	22700.5	13553.6	1406.5	377.4	352.4	293.2	274.4	274.4	246.4	215.2
26511.5	70°	21839.8	10160.5	592.5	302.5	271.3	224.5	224.5	237.0	208.9	174.6
25136.2	72.5°	19971.7	6836.0	315.0	230.8	202.7	159.1	184.0	193.4	165.3	131.0
20573.6	75°	15877.0	4169.6	218.3	171.5	127.9	112.3	140.3	146.6	112.3	87.3
14105.6	77.5°	10859.1	2395.1	146.6	109.2	81.1	65.5	96.7	90.4	59.3	40.5
5438.9	80°	4768.4	998.0	84.2	49.9	31.2	24.9	34.3	24.9	18.7	12.5
745.4	82.5°	558.2	233.9	31.2	18.7	12.5	6.2	3.1	0.0	0.0	0.0
227.7	85°	115.4	28.1	15.6	6.2	3.1	0.0	0.0	0.0	0.0	0.0
40.5	87.5°	21.8	6.2	3.1	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>
5594.8
5435.8
5195.6
4475.2
3255.9
2105.1
1687.2
1537.5
1394.0
1253.7
1132.1
1047.9
957.4
876.3
798.4
729.8
670.5
630.0
592.5
564.5
539.5
514.6
486.5
452.2
399.2
318.1
249.5
212.1
171.5
131.0
84.2
43.7
12.5
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