

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: P955700

Luminaire Tested: **GALN-SB8C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

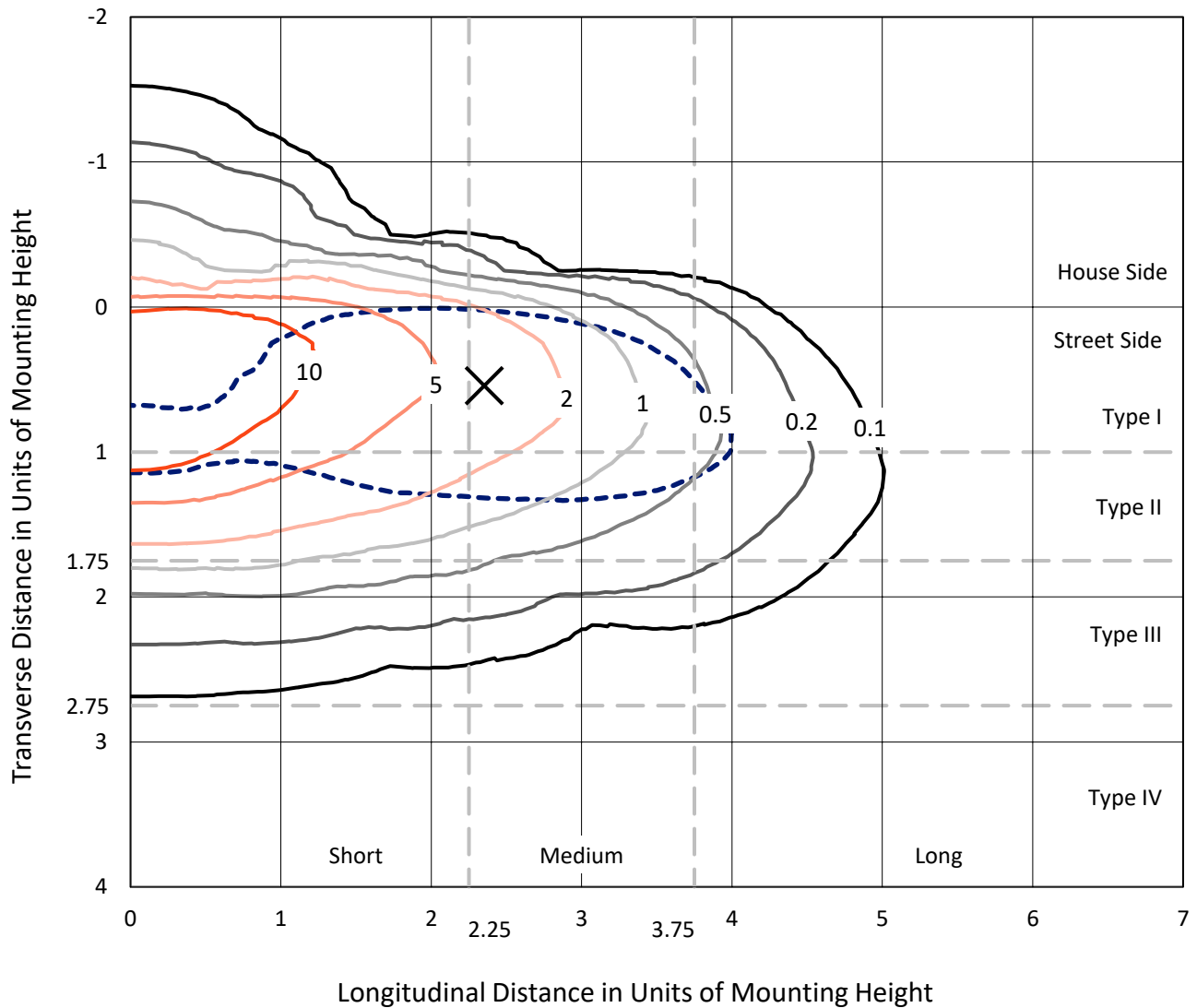
Lumens per Lamp: N/A  
Luminaire Lumens: 44586 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

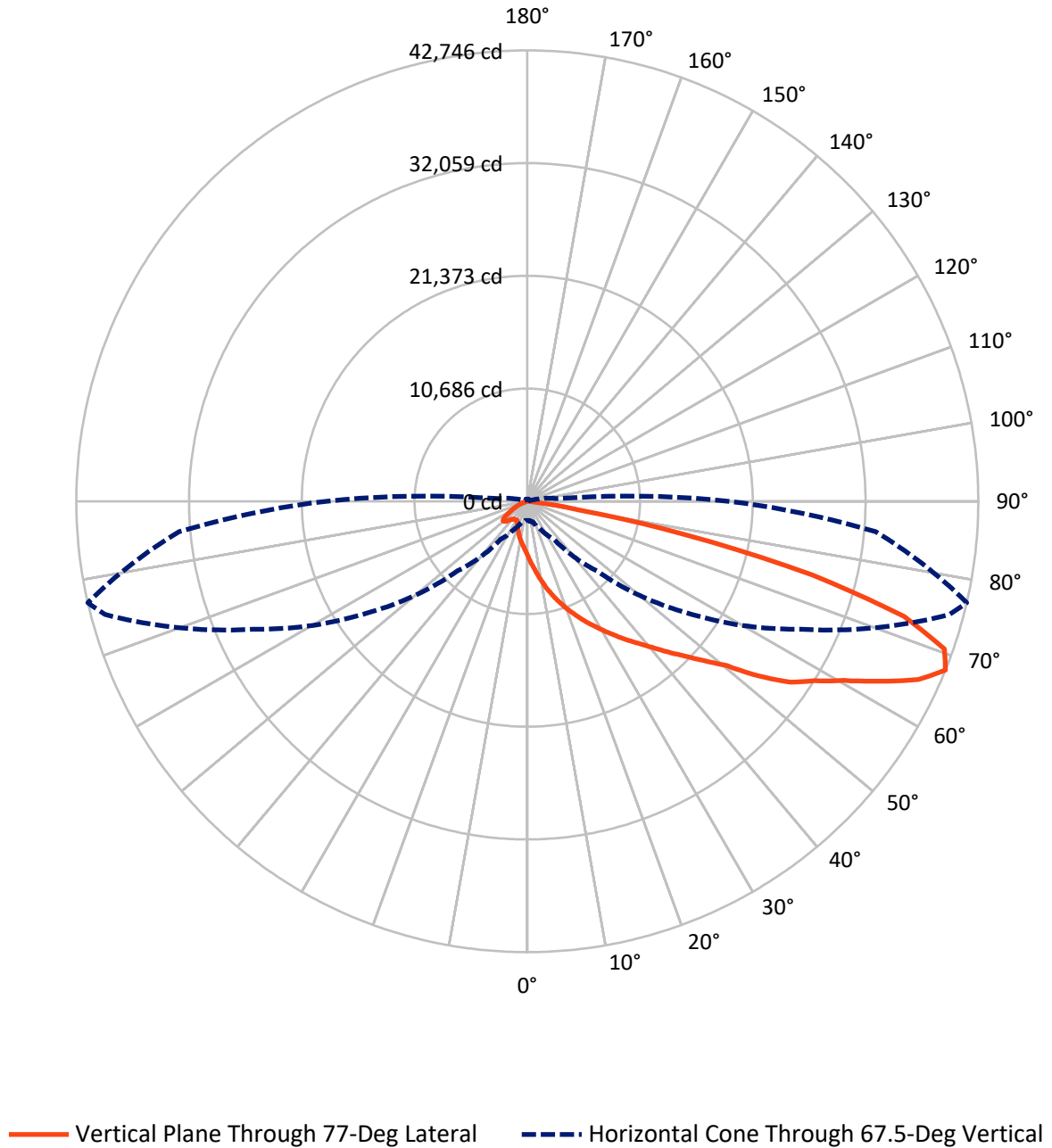
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3280.2	0.0	3280.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	41305.8	0.0	41305.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	44586.0	0.0	44586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.8	1.2
10°-20°	1837.7	4.1
20°-30°	3546.2	8.0
30°-40°	6156.4	13.8
40°-50°	8938.8	20.0
50°-60°	10265.0	23.0
60°-70°	8912.0	20.0
70°-80°	4197.6	9.4
80°-90°	207.6	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°	44586.0	100.0
0°-180°	44586.0	100.0

**Coefficient of Utilization**

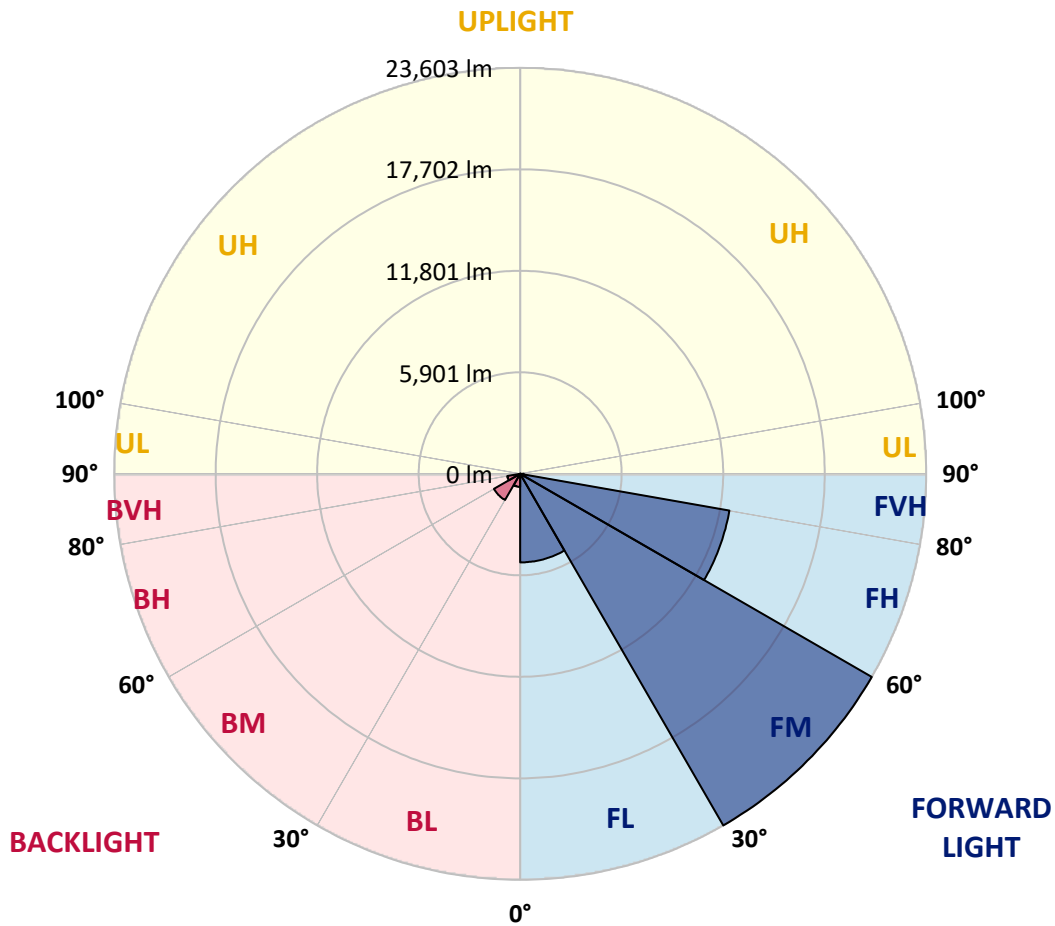


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5149.2	11.5			
FM (30°-60°)	23602.6	52.9			
FH (60°-80°)	12350.2	27.7			G5
FVH (80°-90°)	203.8	0.5			G2/225
BL (0°-30°)	759.4	1.7	B2/1000		
BM (30°-60°)	1757.6	3.9	B2/2500		
BH (60°-80°)	759.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4
2.5°	7118.3	7162.6	7098.9	6977.0	6794.3	6675.3	6384.6	6110.5	5805.9	5709.0
5°	8677.0	8715.8	8643.8	8510.9	8267.3	8034.7	7652.6	7079.5	6484.2	6293.2
7.5°	9831.5	9853.7	9826.0	9704.2	9471.6	9208.6	8782.2	8103.9	7220.7	7010.3
10°	10662.2	10734.1	10725.8	10678.8	10523.7	10310.5	9856.5	9084.0	8045.8	7774.4
12.5°	11213.1	11293.4	11340.5	11445.7	11437.4	11301.7	10903.0	10086.3	8868.1	8549.7
15°	11373.7	11459.5	11639.5	11883.1	12099.1	12168.3	11888.7	11069.1	9773.4	9366.4
17.5°	11282.3	11415.2	11631.2	12016.0	12489.5	12802.3	12771.9	12018.8	10595.7	10130.6
20°	11484.4	11611.8	11780.7	12104.6	12655.6	13223.2	13450.2	12926.9	11412.5	10925.2
22.5°	12603.0	12580.8	12597.5	12650.1	12979.5	13541.6	14009.5	13752.0	12220.9	11722.6
25°	14374.9	14275.3	14106.4	13821.2	13738.1	14009.5	14496.8	14482.9	13073.7	12539.3
27.5°	16407.1	16390.5	15994.6	15308.0	14920.4	14815.2	15047.7	15194.5	13918.1	13347.8
30°	18353.5	18397.8	17863.5	17099.3	16387.8	15975.2	15764.8	15870.0	14776.4	14219.9
32.5°	20047.9	20095.0	19513.6	18619.3	17738.9	17240.5	16797.5	16537.3	15712.2	15105.9
35°	21479.3	21526.4	20859.2	19870.7	18932.2	18480.9	17979.7	17268.2	16653.6	16088.7
37.5°	22758.5	22744.6	21850.3	20853.6	19931.7	19574.5	19311.5	18168.0	17622.6	17077.2
40°	23514.3	23572.5	22808.3	21709.1	20814.9	20554.6	20538.0	19283.8	18741.1	18212.3
42.5°	23735.8	23838.3	23284.5	22381.9	21570.7	21288.3	21723.0	20490.9	20042.4	19527.4
45°	23337.1	23436.8	23184.8	22559.1	22085.7	21903.0	22741.9	21742.4	21432.3	20922.8
47.5°	22174.3	22298.9	22359.8	22226.9	22221.3	22406.9	23655.5	23060.3	23082.4	22561.9
50°	19923.4	20133.8	20693.0	21163.7	21891.9	22805.5	24544.3	24488.9	24943.0	24494.4
52.5°	15831.3	16130.3	18057.3	19344.7	20981.0	22730.8	25521.6	26781.4	28207.2	27551.0
55°	12722.0	12722.0	14289.1	16697.9	19203.5	22238.0	25948.0	28270.9	30430.5	30275.4
57.5°	10371.4	10496.0	11495.5	13624.6	16631.4	21064.0	26211.0	29206.7	32221.8	32108.3
60°	6401.2	6669.7	8558.0	10659.4	13704.9	18973.7	26044.9	30153.6	34395.2	34486.6
62.5°	3604.8	3704.5	4546.2	7669.2	10656.6	16163.5	24774.1	30682.4	37174.9	37562.6
65°	2489.0	2538.9	2862.8	4773.2	7386.8	12868.8	22290.6	30352.9	39960.2	40743.8
67.5°	1807.9	1832.9	2035.0	2915.4	4382.8	9330.4	18397.8	28691.7	41435.9	42745.5
70°	1389.9	1406.5	1553.2	1915.9	2588.7	5758.8	13361.6	25388.7	40367.2	41931.5
72.5°	1129.6	1146.2	1259.7	1417.6	1716.6	3405.5	8098.4	20618.3	35649.4	37338.3
75°	952.4	974.6	1077.0	1179.5	1345.6	2187.2	3798.6	14358.3	26809.0	27916.5
77.5°	528.8	487.3	874.9	977.3	1135.2	1384.3	1777.5	8450.0	15014.5	15321.8
80°	329.5	340.5	694.9	786.3	872.1	697.7	814.0	3253.2	5205.1	4944.8
82.5°	19.4	44.3	534.4	567.6	598.0	299.0	307.3	1104.7	1254.2	1151.8
85°	0.0	0.0	243.6	196.6	207.7	85.8	88.6	257.5	168.9	182.7
87.5°	0.0	0.0	0.0	5.5	0.0	8.3	16.6	22.1	8.3	11.1
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°
5141.4	0°	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4	5141.4
5404.4	2.5°	5210.6	5016.8	4623.7	4238.8	3926.0	3635.3	3427.6	3231.0	3131.4	3125.8
5753.3	5°	5368.5	4961.5	4175.2	3480.2	2920.9	2472.4	2181.7	1974.1	1868.9	1832.9
6182.4	7.5°	5589.9	4978.1	3782.0	2815.7	2156.8	1771.9	1605.8	1539.4	1517.2	1492.3
6667.0	10°	5869.6	5016.8	3430.4	2267.5	1700.0	1506.2	1439.7	1412.0	1395.4	1378.8
7212.4	12.5°	6182.4	5052.8	3081.5	1882.7	1495.1	1395.4	1348.3	1315.1	1293.0	1273.6
7771.7	15°	6487.0	5075.0	2718.8	1614.1	1389.9	1309.6	1259.7	1223.8	1193.3	1171.1
8319.9	17.5°	6788.8	5105.4	2378.3	1453.6	1304.0	1223.8	1173.9	1129.6	1104.7	1079.8
8895.7	20°	7123.8	5099.9	2057.1	1340.0	1218.2	1137.9	1085.3	1043.8	1018.9	991.2
9504.8	22.5°	7433.9	5072.2	1774.7	1243.1	1129.6	1052.1	994.0	952.4	927.5	905.4
10127.8	25°	7791.0	5050.1	1539.4	1154.5	1046.6	969.0	905.4	866.6	838.9	819.5
10753.5	27.5°	8134.4	5016.8	1367.7	1074.2	966.3	891.5	830.6	786.3	761.4	747.5
11398.6	30°	8472.1	5008.5	1304.0	996.7	894.3	819.5	758.6	717.1	697.7	692.2
12107.4	32.5°	8879.1	5030.7	1331.7	969.0	827.8	753.1	694.9	664.5	645.1	645.1
12896.5	35°	9313.8	5025.1	1373.3	994.0	783.5	686.6	642.3	623.0	603.6	603.6
13771.4	37.5°	9859.2	5033.4	1406.5	1035.5	766.9	631.3	606.3	581.4	570.3	570.3
14729.3	40°	10673.2	5307.5	1389.9	1071.5	761.4	592.5	542.7	534.4	526.0	526.0
15811.9	42.5°	11669.9	5902.8	1412.0	1074.2	758.6	564.8	498.4	515.0	495.6	492.8
17032.9	45°	12760.8	6553.4	1553.2	1016.1	755.8	551.0	476.2	495.6	465.1	465.1
18447.7	47.5°	13843.4	7198.5	1697.2	933.0	747.5	548.2	456.8	445.8	437.4	440.2
20291.6	50°	15335.7	7724.6	1752.6	819.5	728.2	542.7	420.8	423.6	418.1	423.6
22891.4	52.5°	16960.9	7835.3	1686.1	692.2	672.8	526.0	395.9	407.0	404.2	409.8
24721.5	55°	17974.2	7716.3	1392.6	575.9	587.0	459.6	371.0	393.2	393.2	393.2
26510.0	57.5°	19020.8	7209.6	988.4	467.9	487.3	376.5	348.9	379.3	376.5	373.8
28664.0	60°	19773.8	6390.1	650.6	384.8	387.6	310.1	323.9	357.2	354.4	340.5
30884.5	62.5°	20335.9	5484.7	418.1	326.7	296.2	279.6	296.2	323.9	312.9	282.4
32767.2	65°	20272.2	4230.5	321.2	279.6	243.6	243.6	257.5	282.4	249.2	199.3
33127.1	67.5°	19090.0	2862.8	265.8	235.3	204.9	202.1	213.2	235.3	213.2	168.9
31283.2	70°	16977.5	1871.6	213.2	182.7	163.4	149.5	171.7	202.1	180.0	135.7
26631.8	72.5°	13779.7	1140.7	160.6	132.9	119.1	96.9	135.7	166.1	144.0	99.7
18519.6	75°	8915.1	581.4	110.7	85.8	63.7	58.1	99.7	124.6	99.7	60.9
8217.4	77.5°	3411.0	243.6	60.9	38.8	33.2	27.7	55.4	74.8	41.5	13.8
1592.0	80°	656.2	102.4	30.5	19.4	16.6	11.1	8.3	5.5	0.0	0.0
282.4	82.5°	113.5	33.2	11.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
55.4	85°	38.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	13.8	0.0	0.0	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>
5141.4
3120.3
1827.3
1486.8
1373.3
1268.1
1168.4
1077.0
988.4
902.6
816.8
747.5
689.4
645.1
603.6
570.3
526.0
490.1
465.1
440.2
423.6
409.8
393.2
373.8
340.5
276.9
193.8
163.4
130.1
94.1
52.6
11.1
0.0
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