

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: P952850

Luminaire Tested: **GALN-SB6C-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

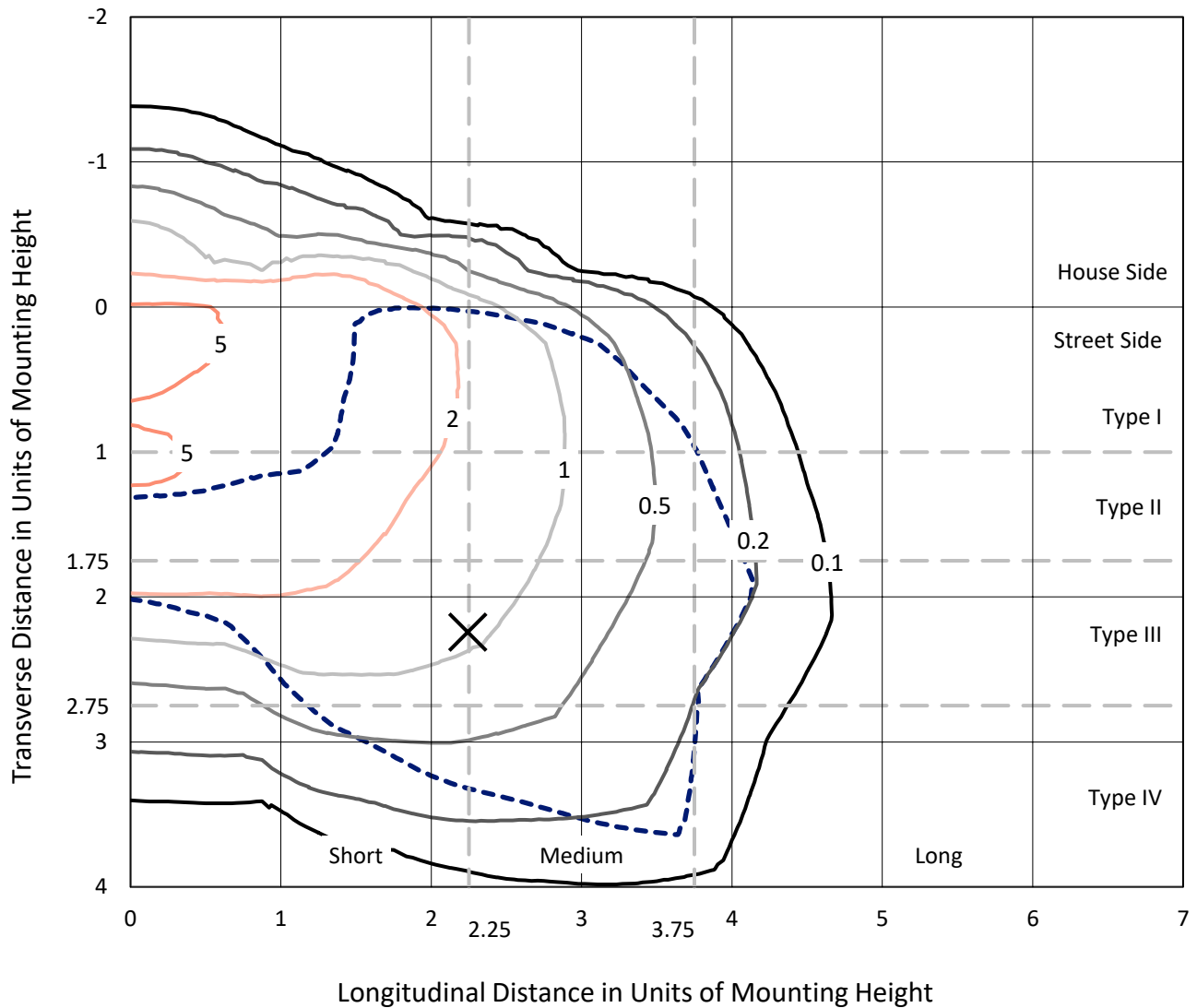
Lumens per Lamp: N/A  
Luminaire Lumens: 30419 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

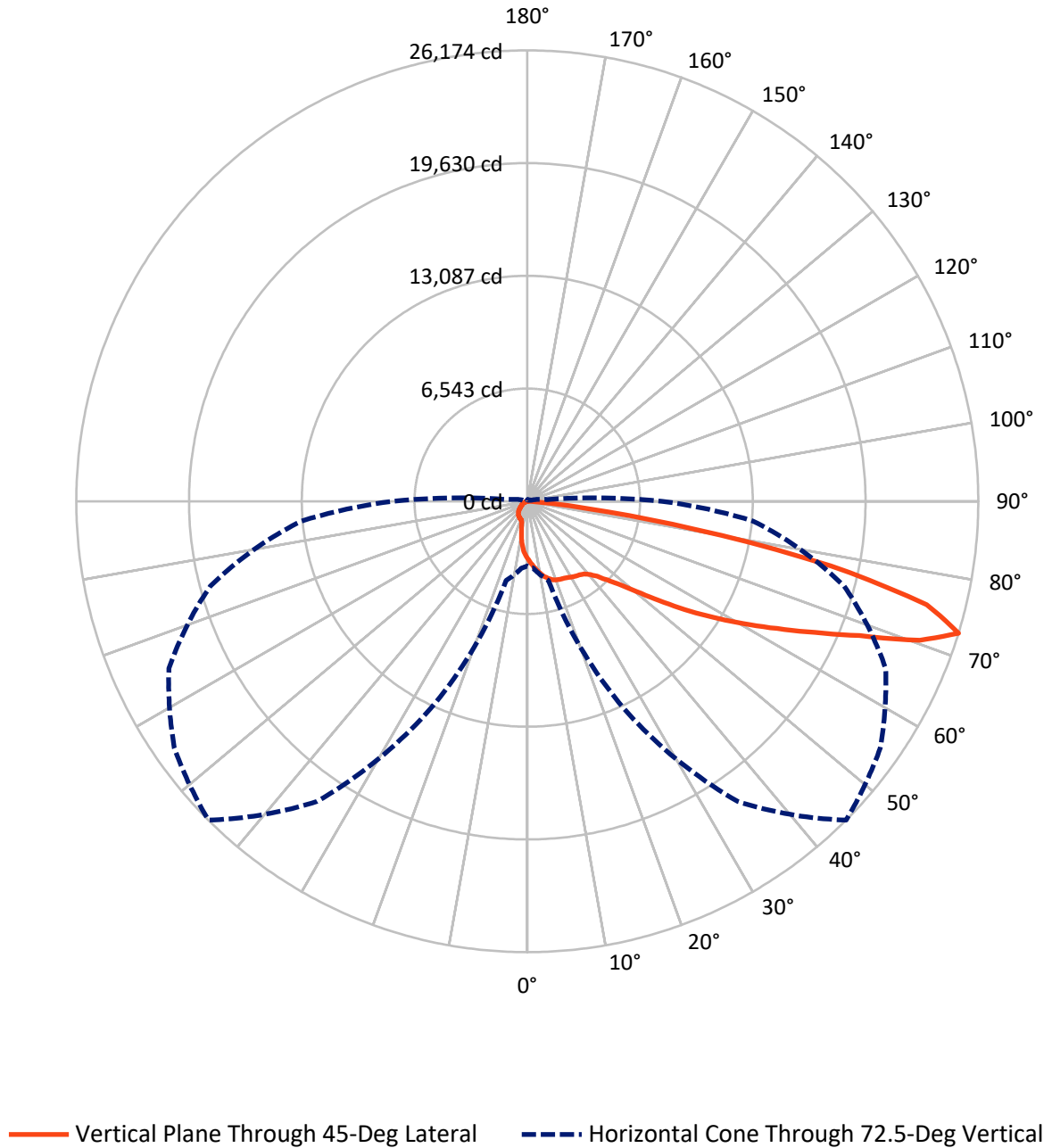
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3196.2	0.0	3196.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	27222.8	0.0	27222.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	30419.0	0.0	30419.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.0	1.0
10°-20°	917.6	3.0
20°-30°	1506.9	5.0
30°-40°	2137.2	7.0
40°-50°	3532.5	11.6
50°-60°	6345.8	20.9
60°-70°	8811.4	29.0
70°-80°	6391.5	21.0
80°-90°	462.1	1.5
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°	30419.0	100.0
0°-180°	30419.0	100.0

**Coefficient of Utilization**



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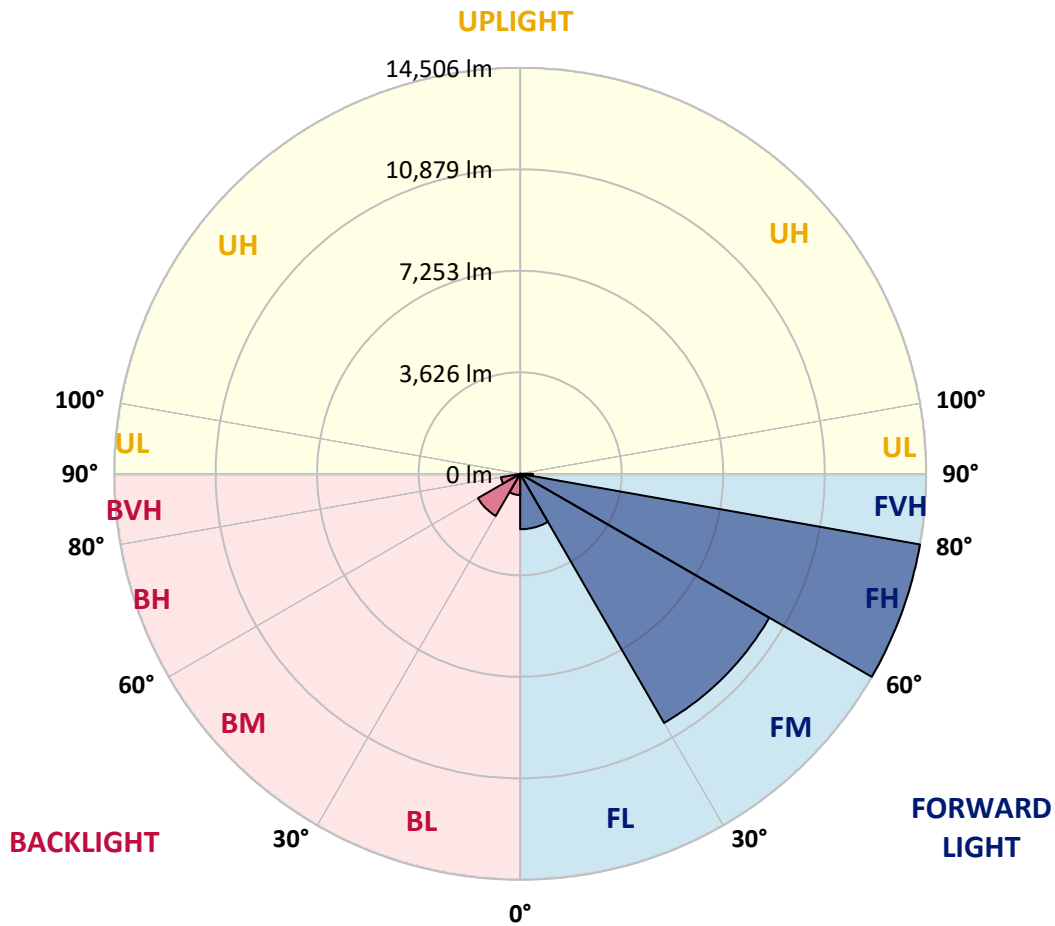
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1981.5	6.5			
FM (30°-60°)	10277.2	33.8			
FH (60°-80°)	14506.0	47.7			G5
FVH (80°-90°)	458.2	1.5			G3/500
BL (0°-30°)	757.1	2.5	B2/1000		
BM (30°-60°)	1738.3	5.7	B2/2500		
BH (60°-80°)	697.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.9	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5
2.5°	3639.8	3646.0	3641.8	3616.9	3575.4	3552.6	3540.1	3498.6	3471.6	3423.8
5°	3974.0	3999.0	3984.4	3934.6	3855.7	3799.6	3783.0	3697.9	3621.1	3531.8
7.5°	4329.1	4341.5	4314.6	4250.2	4144.3	4048.8	4034.3	3915.9	3793.4	3656.4
10°	4636.4	4650.9	4609.4	4516.0	4395.5	4277.2	4256.4	4125.6	3980.3	3812.1
12.5°	4893.8	4908.4	4854.4	4742.3	4609.4	4486.9	4466.1	4329.1	4169.2	3982.3
15°	5089.0	5116.0	5043.3	4922.9	4779.6	4657.1	4646.8	4511.8	4356.1	4148.5
17.5°	5203.2	5230.2	5161.7	5016.3	4893.8	4790.0	4777.6	4665.5	4520.1	4320.8
20°	5221.9	5246.8	5174.1	5047.5	4945.8	4862.7	4856.5	4775.5	4669.6	4478.6
22.5°	5165.8	5197.0	5130.5	5028.8	4958.2	4914.6	4906.3	4860.6	4800.4	4638.5
25°	5107.7	5132.6	5082.8	4993.5	4956.1	4952.0	4958.2	4949.9	4937.4	4800.4
27.5°	5103.6	5130.5	5074.5	4989.4	4968.6	5012.2	5018.4	5057.9	5068.3	4947.8
30°	5138.8	5157.5	5103.6	5014.3	5003.9	5103.6	5105.6	5176.2	5192.8	5072.4
32.5°	5215.7	5236.4	5182.5	5051.6	5037.1	5176.2	5182.5	5275.9	5302.9	5205.3
35°	5396.3	5421.2	5358.9	5155.5	5103.6	5244.7	5263.4	5373.5	5427.5	5346.5
37.5°	5846.9	5774.2	5689.1	5365.2	5255.1	5352.7	5383.9	5512.6	5608.1	5514.7
40°	6966.0	6737.6	6471.8	5722.3	5520.9	5583.2	5608.1	5736.8	5867.6	5776.3
42.5°	8645.7	8375.8	7948.1	6544.5	5921.6	5952.8	5971.4	6083.6	6268.4	6195.7
45°	10142.7	10045.2	9609.1	7948.1	6671.2	6517.5	6540.4	6598.5	6870.5	6843.5
47.5°	11293.0	11237.0	10900.6	9559.3	7937.7	7208.9	7273.3	7300.3	7692.7	7788.2
50°	12177.5	12156.8	11855.7	10991.9	9592.5	8228.4	8251.2	8193.1	8780.7	9017.4
52.5°	13012.2	13082.8	12860.6	12322.9	11359.5	9563.5	9559.3	9285.2	10078.4	10435.5
55°	13765.9	13790.8	13813.6	13680.8	13136.8	11083.3	11043.9	10595.4	11583.7	11953.3
57.5°	14473.9	14484.3	14687.8	14959.8	14986.8	12715.3	12642.6	12104.8	13228.1	13491.8
60°	14949.4	14997.1	15426.9	16182.7	16512.8	14399.2	14359.7	13811.6	14901.6	15024.1
62.5°	14264.2	14554.9	15638.7	17137.8	17953.8	16265.8	16247.1	15732.1	16662.3	16562.7
65°	11546.3	12038.4	13944.5	17783.5	19367.8	18350.4	18377.4	17829.2	18470.8	18146.9
67.5°	8076.8	8595.9	10850.8	17835.4	20947.8	20798.3	20954.0	20094.5	20391.4	19664.7
70°	5585.3	5853.1	7321.0	16718.4	22179.1	24170.2	24166.1	22876.7	22301.6	20356.1
72.5°	3756.0	3895.1	4754.7	13263.4	21273.8	26173.9	26053.4	25002.8	22945.2	19037.6
75°	1584.2	1686.0	2200.9	7453.9	16830.5	23946.0	23620.0	22096.0	20387.2	14990.9
77.5°	502.5	546.1	867.9	2668.0	9270.7	17999.5	17654.8	13799.1	13664.1	7520.4
80°	238.8	278.2	487.9	1071.4	3648.1	9789.8	9742.0	6260.1	5878.0	2030.6
82.5°	103.8	122.5	269.9	573.1	1632.0	3492.3	3562.9	2130.3	1762.8	770.3
85°	33.2	43.6	124.6	263.7	689.3	867.9	857.5	506.6	710.1	419.4
87.5°	0.0	0.0	41.5	60.2	70.6	49.8	56.1	43.6	197.2	116.3
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°
3332.5	0°	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5	3332.5
3374.0	2.5°	3349.1	3315.9	3257.7	3203.7	3156.0	3108.2	3079.2	3037.6	3033.5	3033.5
3428.0	5°	3371.9	3317.9	3214.1	3104.1	2977.4	2857.0	2736.6	2620.3	2582.9	2555.9
3515.2	7.5°	3438.4	3353.2	3189.2	2979.5	2738.6	2475.0	2290.2	2090.8	2014.0	1972.5
3631.5	10°	3533.9	3417.6	3168.4	2800.9	2410.6	2051.4	1787.7	1571.8	1488.7	1453.4
3758.1	12.5°	3639.8	3496.5	3131.1	2578.8	2051.4	1621.6	1364.1	1264.5	1252.0	1252.0
3909.7	15°	3766.4	3592.0	3066.7	2317.2	1675.6	1283.2	1191.8	1196.0	1208.4	1216.7
4057.1	17.5°	3897.2	3693.7	2965.0	2024.4	1343.4	1154.4	1156.5	1162.7	1173.1	1181.4
4217.0	20°	4038.4	3795.5	2830.0	1712.9	1152.3	1117.1	1123.3	1129.5	1137.8	1142.0
4366.5	22.5°	4190.0	3891.0	2670.1	1407.7	1088.0	1085.9	1088.0	1094.2	1104.6	1104.6
4540.9	25°	4351.9	3996.9	2487.4	1185.6	1054.8	1054.8	1058.9	1063.1	1071.4	1071.4
4709.1	27.5°	4518.0	4094.5	2294.3	1069.3	1025.7	1023.6	1023.6	1029.8	1034.0	1036.1
4875.2	30°	4700.7	4208.7	2101.2	1044.4	1002.9	992.5	986.2	990.4	994.5	996.6
5049.6	32.5°	4887.6	4318.7	1928.9	1054.8	980.0	961.3	940.6	936.4	936.4	944.7
5230.2	35°	5095.2	4439.1	1796.0	1090.1	967.6	915.6	882.4	863.7	865.8	878.3
5446.1	37.5°	5344.4	4584.5	1698.4	1121.2	959.3	863.7	809.8	786.9	772.4	786.9
5743.1	40°	5670.4	4798.3	1627.8	1146.1	948.9	803.5	730.9	693.5	666.5	674.8
6204.0	42.5°	6150.0	5134.7	1600.8	1148.2	926.0	732.9	649.9	600.1	560.6	562.7
6897.5	45°	6822.7	5666.2	1739.9	1121.2	876.2	656.1	564.8	498.3	473.4	467.2
7933.6	47.5°	7744.6	6440.7	2061.8	1065.1	803.5	581.4	481.7	425.6	407.0	396.6
9293.5	50°	8980.0	7435.2	2418.9	1002.9	730.9	510.8	413.2	377.9	365.4	355.0
10906.8	52.5°	10412.7	8444.3	2711.7	940.6	658.2	448.5	369.6	348.8	338.4	330.1
12464.0	55°	11727.0	9139.9	2695.0	874.1	587.6	398.7	338.4	326.0	313.5	305.2
13805.3	57.5°	12545.0	9237.5	2221.6	801.5	506.6	359.2	309.4	301.1	286.5	276.1
14966.0	60°	12920.8	8681.0	1557.2	705.9	425.6	321.8	278.2	274.1	255.4	240.9
16064.4	62.5°	12989.4	7647.0	1038.2	587.6	355.0	286.5	247.1	240.9	215.9	191.0
16957.2	65°	12711.1	6168.7	718.4	458.9	303.1	249.2	211.8	199.3	172.3	147.4
17168.9	67.5°	11830.8	4331.2	500.4	330.1	257.5	197.2	168.2	164.0	143.3	122.5
16089.3	70°	10217.5	2468.7	334.3	247.1	203.5	135.0	132.9	137.0	116.3	99.7
13145.1	72.5°	7833.9	1129.5	207.6	180.6	139.1	91.4	105.9	108.0	89.3	74.7
8201.4	75°	4611.5	483.8	130.8	116.3	70.6	60.2	76.8	78.9	60.2	47.8
2998.2	77.5°	1569.7	182.7	83.1	68.5	35.3	33.2	49.8	49.8	33.2	18.7
602.1	80°	357.1	68.5	41.5	27.0	16.6	14.5	16.6	14.5	8.3	2.1
184.8	82.5°	101.7	27.0	16.6	10.4	6.2	6.2	2.1	0.0	0.0	0.0
64.4	85°	29.1	12.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
22.8	87.5°	12.5	2.1	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

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180°
3332.5
3043.9
2568.4
1978.7
1453.4
1252.0
1216.7
1181.4
1144.0
1108.7
1073.4
1038.2
1000.8
950.9
884.5
782.8
670.6
554.4
458.9
390.3
353.0
328.1
301.1
274.1
236.7
178.6
139.1
116.3
91.4
66.4
41.5
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