

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: P954377

Luminaire Tested: **GALN-SB7C-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954377  
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-SB7C-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

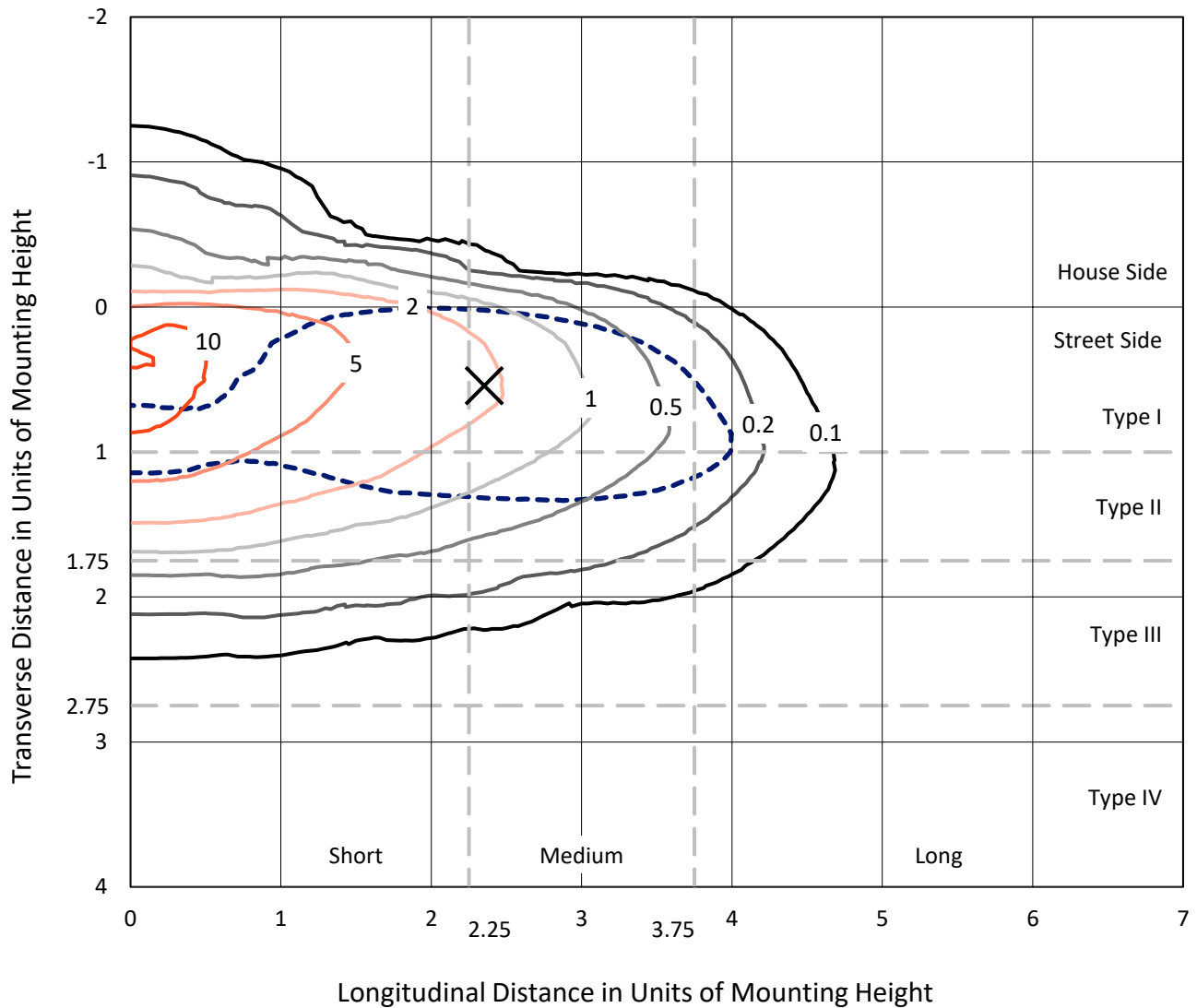
Lumens per Lamp: N/A  
Luminaire Lumens: 27449 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

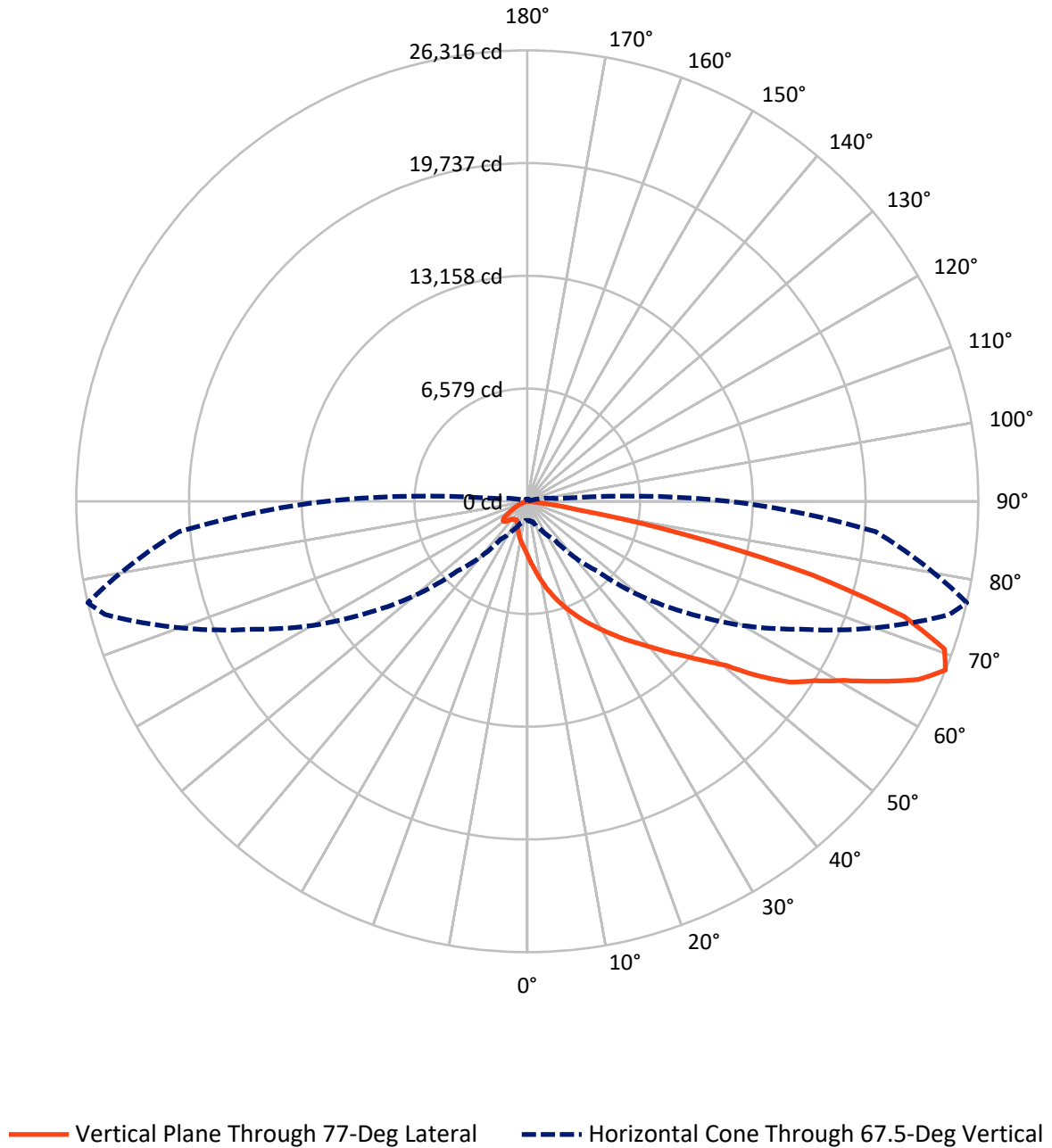
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	2019.4	0.0	2019.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	25429.6	0.0	25429.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	27449.0	0.0	27449.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	1.2
10°-20°	1131.3	4.1
20°-30°	2183.2	8.0
30°-40°	3790.1	13.8
40°-50°	5503.1	20.0
50°-60°	6319.6	23.0
60°-70°	5486.6	20.0
70°-80°	2584.2	9.4
80°-90°	127.8	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°	27449.0	100.0
0°-180°	27449.0	100.0

**Coefficient of Utilization**



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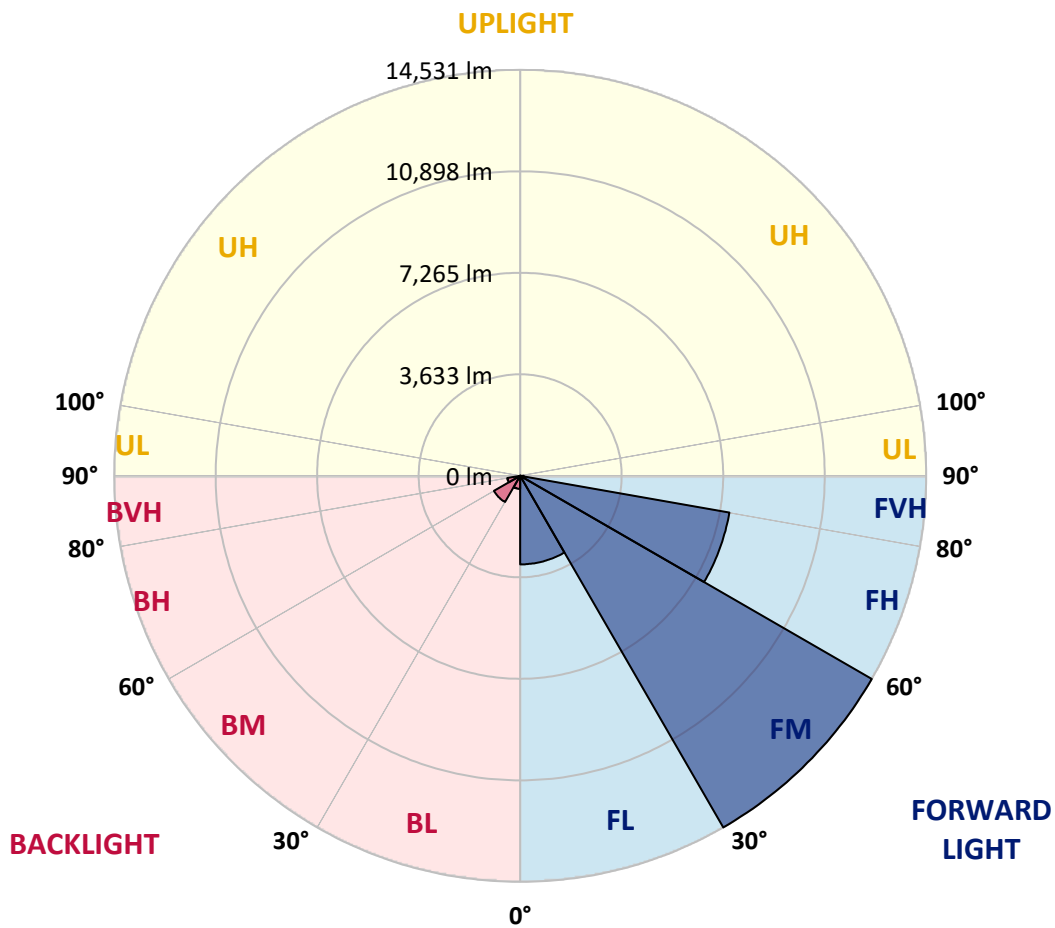
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.1	11.5			
FM (30°-60°)	14530.8	52.9			
FH (60°-80°)	7603.3	27.7			G4/12000
FVH (80°-90°)	125.4	0.5			G2/225
BL (0°-30°)	467.5	1.7	B1/500		
BM (30°-60°)	1082.0	3.9	B2/2500		
BH (60°-80°)	467.5	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3
2.5°	4382.3	4409.6	4370.4	4295.4	4182.9	4109.6	3930.6	3761.9	3574.4	3514.7
5°	5341.9	5365.8	5321.5	5239.7	5089.7	4946.5	4711.3	4358.4	3992.0	3874.3
7.5°	6052.7	6066.3	6049.3	5974.3	5831.1	5669.2	5406.7	4989.1	4445.4	4315.8
10°	6564.1	6608.4	6603.3	6574.3	6478.8	6347.6	6068.1	5592.5	4953.3	4786.3
12.5°	6903.3	6952.7	6981.7	7046.4	7041.3	6957.8	6712.4	6209.5	5459.5	5263.5
15°	7002.1	7055.0	7165.8	7315.8	7448.7	7491.3	7319.2	6814.6	6016.9	5766.4
17.5°	6945.9	7027.7	7160.6	7397.6	7689.0	7881.6	7862.9	7399.3	6523.2	6236.8
20°	7070.3	7148.7	7252.7	7452.1	7791.3	8140.7	8280.5	7958.4	7026.0	6726.0
22.5°	7758.9	7745.3	7755.5	7787.9	7990.7	8336.8	8624.8	8466.3	7523.7	7216.9
25°	8849.8	8788.4	8684.5	8508.9	8457.8	8624.8	8924.8	8916.3	8048.7	7719.7
27.5°	10100.9	10090.7	9846.9	9424.2	9185.6	9120.8	9264.0	9354.3	8568.6	8217.4
30°	11299.2	11326.5	10997.5	10527.0	10089.0	9835.0	9705.5	9770.2	9097.0	8754.4
32.5°	12342.3	12371.3	12013.4	11462.8	10920.8	10614.0	10341.3	10181.0	9673.1	9299.8
35°	13223.6	13252.6	12841.8	12233.3	11655.4	11377.6	11069.1	10631.0	10252.6	9904.9
37.5°	14011.1	14002.5	13452.0	12838.4	12270.8	12050.9	11889.0	11185.0	10849.2	10513.4
40°	14476.4	14512.2	14041.7	13365.1	12814.5	12654.3	12644.0	11871.9	11537.8	11212.3
42.5°	14612.8	14675.8	14334.9	13779.3	13279.8	13106.0	13373.6	12615.1	12338.9	12021.9
45°	14367.3	14428.7	14273.6	13888.3	13596.9	13484.4	14000.8	13385.5	13194.6	12881.0
47.5°	13651.4	13728.1	13765.6	13683.8	13680.4	13794.6	14563.3	14196.9	14210.5	13890.0
50°	12265.6	12395.2	12739.5	13029.3	13477.6	14040.0	15110.5	15076.4	15355.9	15079.8
52.5°	9746.4	9930.5	11116.8	11909.4	12916.8	13994.0	15712.2	16487.7	17365.5	16961.6
55°	7832.2	7832.2	8797.0	10279.9	11822.5	13690.6	15974.7	17404.7	18734.3	18638.8
57.5°	6385.1	6461.8	7077.1	8387.9	10239.0	12967.9	16136.6	17980.9	19837.1	19767.2
60°	3940.8	4106.2	5268.6	6562.4	8437.3	11681.0	16034.3	18563.8	21175.1	21231.4
62.5°	2219.3	2280.6	2798.8	4721.5	6560.7	9950.9	15251.9	18889.4	22886.4	23125.1
65°	1532.4	1563.0	1762.5	2938.6	4547.6	7922.6	13723.0	18686.5	24601.2	25083.6
67.5°	1113.0	1128.4	1252.8	1794.8	2698.2	5744.2	11326.5	17663.8	25509.7	26315.9
70°	855.7	865.9	956.2	1179.5	1593.7	3545.4	8226.0	15630.3	24851.7	25814.8
72.5°	695.4	705.7	775.6	872.7	1056.8	2096.5	4985.7	12693.5	21947.3	22987.0
75°	586.4	600.0	663.1	726.1	828.4	1346.6	2338.6	8839.6	16504.8	17186.6
77.5°	325.6	300.0	538.6	601.7	698.8	852.3	1094.3	5202.2	9243.6	9432.8
80°	202.8	209.7	427.8	484.1	536.9	429.5	501.1	2002.8	3204.5	3044.3
82.5°	11.9	27.3	329.0	349.4	368.2	184.1	189.2	680.1	772.1	709.1
85°	0.0	0.0	150.0	121.0	127.8	52.8	54.5	158.5	104.0	112.5
87.5°	0.0	0.0	0.0	3.4	0.0	5.1	10.2	13.6	5.1	6.8
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°
3165.3	0°	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3
3327.2	2.5°	3207.9	3088.6	2846.5	2609.6	2417.0	2238.0	2110.2	1989.2	1927.8	1924.4
3542.0	5°	3305.0	3054.5	2570.4	2142.6	1798.3	1522.1	1343.2	1215.3	1150.5	1128.4
3806.2	7.5°	3441.4	3064.7	2328.4	1733.5	1327.8	1090.9	988.6	947.7	934.1	918.7
4104.5	10°	3613.6	3088.6	2111.9	1396.0	1046.6	927.3	886.3	869.3	859.1	848.8
4440.2	12.5°	3806.2	3110.7	1897.1	1159.1	920.4	859.1	830.1	809.6	796.0	784.1
4784.6	15°	3993.7	3124.4	1673.8	993.7	855.7	806.2	775.6	753.4	734.6	721.0
5122.0	17.5°	4179.5	3143.1	1464.2	894.9	802.8	753.4	722.7	695.4	680.1	664.8
5476.6	20°	4385.7	3139.7	1266.5	825.0	750.0	700.6	668.2	642.6	627.3	610.2
5851.6	22.5°	4576.6	3122.7	1092.6	765.3	695.4	647.7	611.9	586.4	571.0	557.4
6235.1	25°	4796.5	3109.0	947.7	710.8	644.3	596.6	557.4	533.5	516.5	504.5
6620.3	27.5°	5007.8	3088.6	842.0	661.3	594.9	548.9	511.4	484.1	468.7	460.2
7017.5	30°	5215.8	3083.5	802.8	613.6	550.6	504.5	467.0	441.5	429.5	426.1
7453.8	32.5°	5466.4	3097.1	819.9	596.6	509.6	463.6	427.8	409.1	397.2	397.2
7939.6	35°	5734.0	3093.7	845.4	611.9	482.4	422.7	395.4	383.5	371.6	371.6
8478.2	37.5°	6069.8	3098.8	865.9	637.5	472.1	388.6	373.3	357.9	351.1	351.1
9068.0	40°	6570.9	3267.5	855.7	659.6	468.7	364.8	334.1	329.0	323.9	323.9
9734.5	42.5°	7184.5	3634.0	869.3	661.3	467.0	347.7	306.8	317.0	305.1	303.4
10486.1	45°	7856.1	4034.6	956.2	625.6	465.3	339.2	293.2	305.1	286.4	286.4
11357.1	47.5°	8522.5	4431.7	1044.9	574.4	460.2	337.5	281.2	274.4	269.3	271.0
12492.3	50°	9441.3	4755.6	1079.0	504.5	448.3	334.1	259.1	260.8	257.4	260.8
14092.9	52.5°	10441.8	4823.8	1038.0	426.1	414.2	323.9	243.7	250.6	248.9	252.3
15219.6	55°	11065.7	4750.5	857.4	354.5	361.4	282.9	228.4	242.0	242.0	242.0
16320.7	57.5°	11710.0	4438.5	608.5	288.1	300.0	231.8	214.8	233.5	231.8	230.1
17646.8	60°	12173.6	3934.0	400.6	236.9	238.6	190.9	199.4	219.9	218.2	209.7
19013.8	62.5°	12519.6	3376.6	257.4	201.1	182.4	172.2	182.4	199.4	192.6	173.9
20172.9	65°	12480.4	2604.5	197.7	172.2	150.0	150.0	158.5	173.9	153.4	122.7
20394.5	67.5°	11752.6	1762.5	163.6	144.9	126.1	124.4	131.2	144.9	131.2	104.0
19259.2	70°	10452.0	1152.2	131.2	112.5	100.6	92.0	105.7	124.4	110.8	83.5
16395.7	72.5°	8483.3	702.3	98.9	81.8	73.3	59.7	83.5	102.3	88.6	61.4
11401.5	75°	5488.5	357.9	68.2	52.8	39.2	35.8	61.4	76.7	61.4	37.5
5059.0	77.5°	2100.0	150.0	37.5	23.9	20.5	17.0	34.1	46.0	25.6	8.5
980.1	80°	404.0	63.1	18.7	11.9	10.2	6.8	5.1	3.4	0.0	0.0
173.9	82.5°	69.9	20.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
34.1	85°	23.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.9	87.5°	8.5	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

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<u>180°</u>
3165.3
1921.0
1125.0
915.3
845.4
780.7
719.3
663.1
608.5
555.7
502.8
460.2
424.4
397.2
371.6
351.1
323.9
301.7
286.4
271.0
260.8
252.3
242.0
230.1
209.7
170.5
119.3
100.6
80.1
58.0
32.4
6.8
0.0
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0.0

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