

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: P944226

Luminaire Tested: **GALN-SB9A-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944226  
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-SB9A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

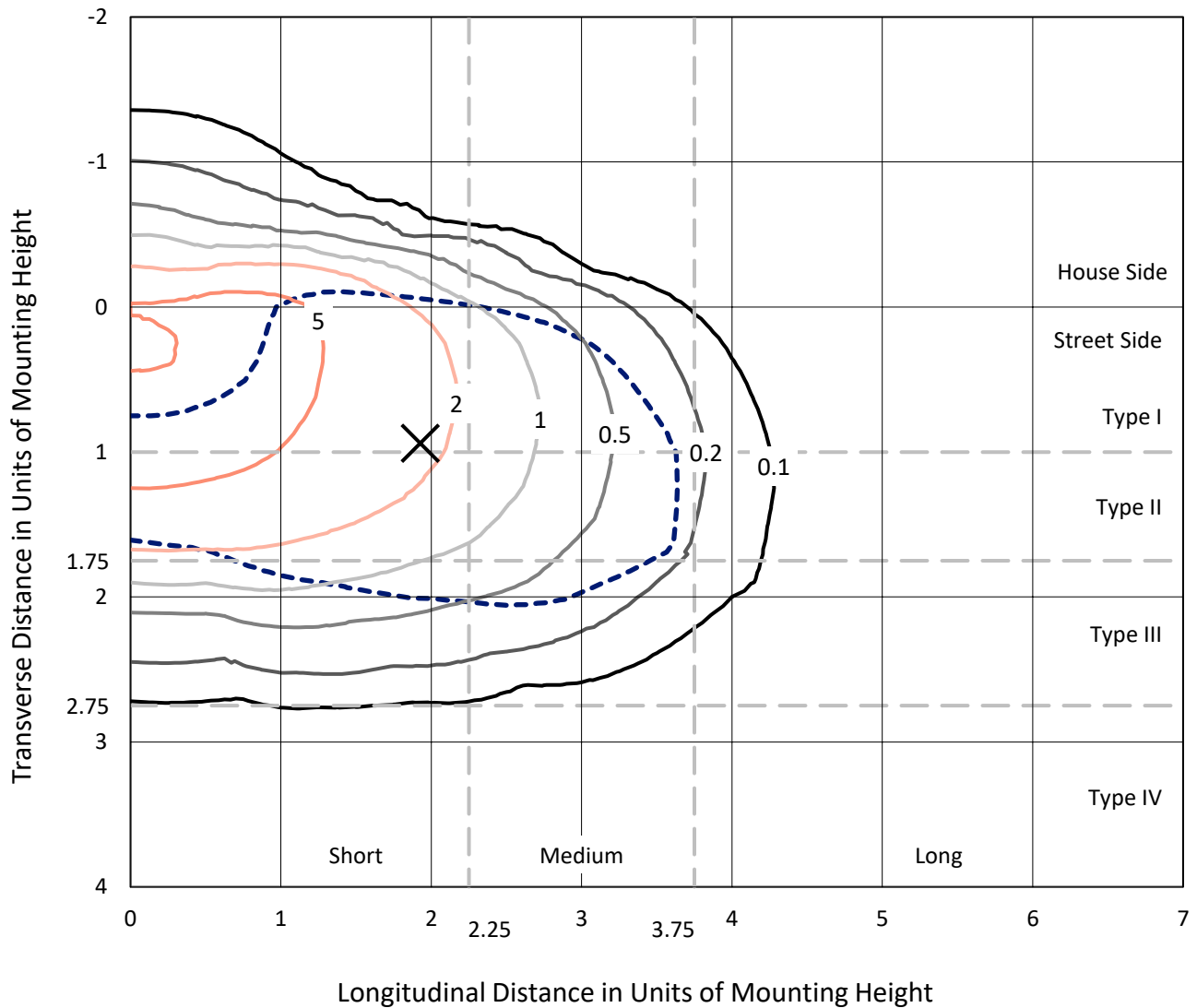
Lumens per Lamp: N/A  
Luminaire Lumens: 27864 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

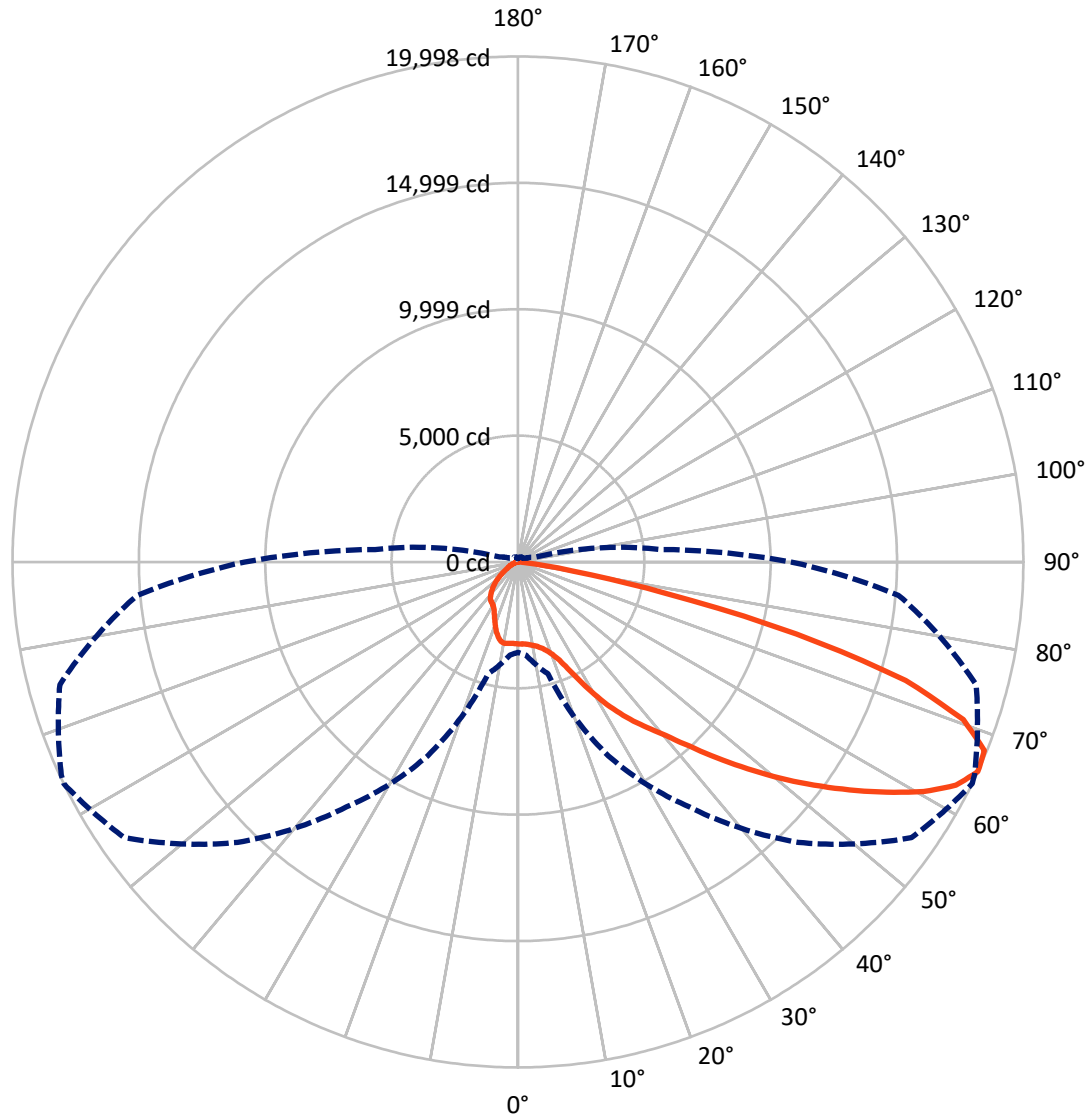
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3726.3	0.0	3726.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	24137.7	0.0	24137.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	27864.0	0.0	27864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.0	1.1
10°-20°	811.0	2.9
20°-30°	1536.7	5.5
30°-40°	3109.6	11.2
40°-50°	5297.3	19.0
50°-60°	7203.9	25.9
60°-70°	6764.8	24.3
70°-80°	2710.3	9.7
80°-90°	131.3	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°	27864.0	100.0
0°-180°	27864.0	100.0

**Coefficient of Utilization**



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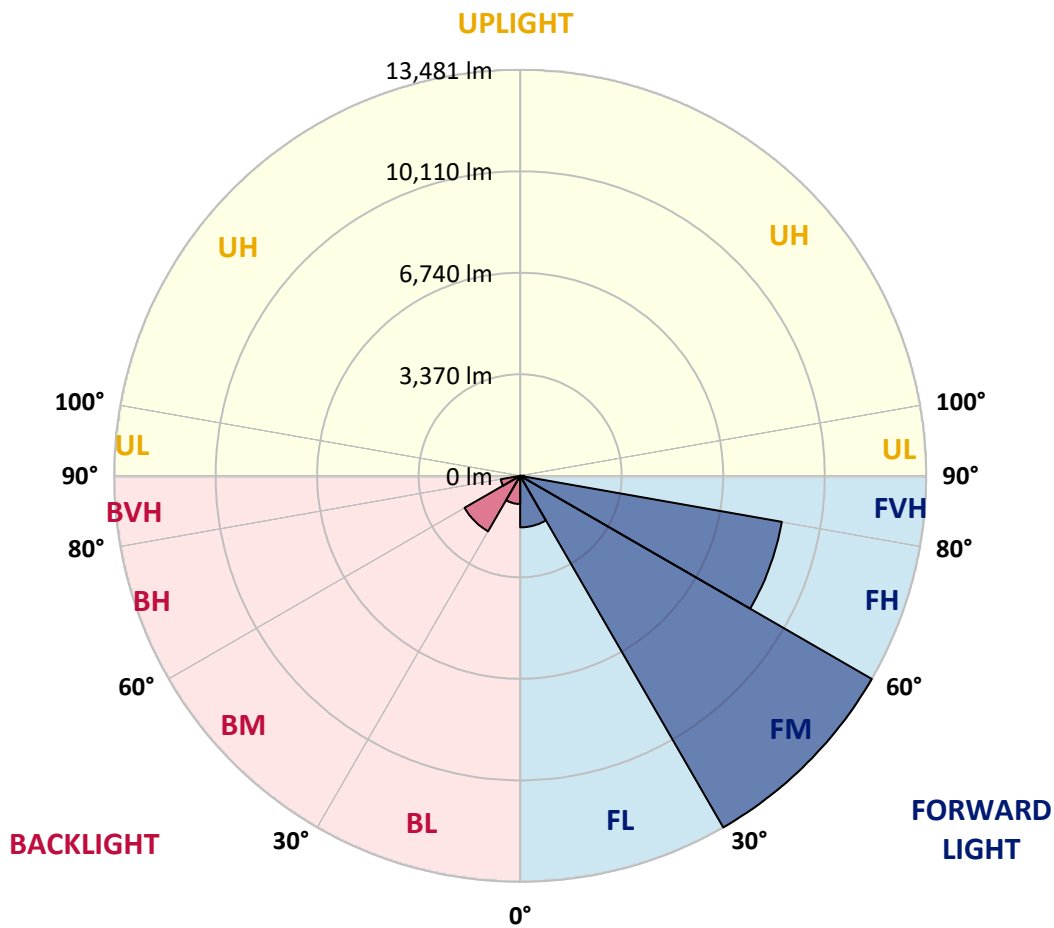
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.2	6.1			
FM (30°-60°)	13480.6	48.4			
FH (60°-80°)	8821.1	31.7			G4/12000
FVH (80°-90°)	124.9	0.4			G2/225
BL (0°-30°)	935.6	3.4	B2/1000		
BM (30°-60°)	2130.3	7.6	B2/2500		
BH (60°-80°)	654.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.4	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9
2.5°	3229.7	3252.1	3246.5	3240.9	3239.0	3242.7	3244.6	3242.7	3242.7	3242.7
5°	3168.0	3186.7	3186.7	3199.8	3218.5	3240.9	3257.7	3261.4	3265.2	3270.8
7.5°	3050.3	3065.3	3076.5	3119.5	3166.2	3225.9	3276.4	3302.5	3306.3	3326.8
10°	2970.0	2988.7	3007.4	3052.2	3119.5	3209.1	3295.0	3358.6	3367.9	3416.5
12.5°	2966.3	2985.0	3009.2	3057.8	3136.3	3231.5	3336.1	3427.7	3444.5	3515.5
15°	3005.5	3027.9	3050.3	3110.1	3194.2	3310.0	3422.1	3536.0	3552.8	3653.7
17.5°	3085.8	3115.7	3132.5	3192.3	3282.0	3410.9	3558.4	3689.2	3704.1	3821.8
20°	3244.6	3280.1	3285.7	3334.3	3422.1	3560.3	3735.9	3898.4	3917.1	4051.6
22.5°	3573.4	3623.8	3579.0	3603.3	3681.7	3819.9	4010.5	4215.9	4242.1	4395.3
25°	4152.4	4223.4	4107.6	4066.5	4100.1	4244.0	4483.1	4742.7	4772.6	4895.9
27.5°	5290.0	5198.5	5022.9	4851.0	4750.2	4832.4	5101.3	5422.6	5460.0	5579.5
30°	6539.7	6459.3	6222.1	5841.0	5601.9	5588.9	5837.3	6196.0	6238.9	6352.9
32.5°	7791.2	7714.6	7456.8	6988.0	6573.3	6367.8	6539.7	6937.5	6959.9	7032.8
35°	9022.1	8943.7	8685.9	8205.9	7695.9	7228.9	7195.3	7643.6	7651.1	7727.7
37.5°	10260.6	10195.2	9920.6	9449.9	8947.4	8303.0	7991.0	8312.3	8321.7	8396.4
40°	11144.1	11172.1	10983.5	10619.2	10187.7	9483.5	8883.9	9024.0	8968.0	9093.1
42.5°	11902.5	11958.5	11794.2	11611.1	11360.8	10740.6	9989.7	9965.4	9875.8	9943.0
45°	12558.1	12604.8	12457.3	12414.3	12408.7	11973.5	11198.3	11052.6	10927.4	10914.4
47.5°	12799.1	12888.8	12952.3	13096.1	13376.3	13193.2	12447.9	12221.9	12081.8	11979.1
50°	12890.6	12985.9	13202.6	13621.0	14284.1	14362.6	13692.0	13437.9	13266.1	13079.3
52.5°	12767.4	12937.3	13228.7	13932.9	14894.9	15300.3	14885.6	14663.3	14467.2	14162.7
55°	12040.7	12210.7	12806.6	13929.2	15199.4	15957.8	16013.8	15914.8	15694.4	15214.4
57.5°	10509.0	10761.2	11704.5	13454.8	15193.8	16523.8	17119.7	17190.6	16944.1	16256.7
60°	8387.0	8728.9	9879.5	12403.1	14725.0	16830.1	18089.1	18444.0	18182.5	17284.0
62.5°	5852.2	6248.3	7337.3	10755.6	13652.8	16609.7	18797.1	19452.7	19254.7	18203.1
65°	3569.6	3696.6	4574.6	8463.6	11829.7	15686.9	19015.6	19998.1	19932.8	18765.3
67.5°	2377.9	2484.4	2736.5	5803.7	9182.8	13843.3	18492.6	19902.9	19921.6	18673.8
70°	1432.7	1524.2	1688.6	3375.4	5951.3	10957.3	16873.1	18688.7	18797.1	17450.3
72.5°	590.3	651.9	801.3	1529.8	3082.1	6954.3	13436.1	16045.6	16297.8	14672.7
75°	334.4	366.1	470.7	767.7	1337.4	3240.9	8138.6	11390.7	11762.4	10113.0
77.5°	222.3	237.2	304.5	496.9	752.8	1105.8	3478.1	5934.4	6644.3	5523.5
80°	149.4	162.5	209.2	332.5	489.4	474.5	1107.7	2198.6	2704.8	1897.8
82.5°	100.9	102.7	149.4	218.5	310.1	229.8	326.9	683.7	859.3	549.2
85°	57.9	56.0	110.2	127.0	138.2	95.3	99.0	205.5	269.0	231.6
87.5°	7.5	11.2	43.0	33.6	18.7	20.5	20.5	35.5	52.3	56.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3240.9	0°	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9
3244.6	2.5°	3244.6	3242.7	3237.1	3231.5	3218.5	3211.0	3214.7	3211.0	3209.1	3211.0
3268.9	5°	3268.9	3263.3	3248.3	3229.7	3203.5	3171.8	3151.2	3121.3	3093.3	3076.5
3334.3	7.5°	3334.3	3328.7	3308.1	3255.8	3171.8	3039.1	2917.7	2811.2	2730.9	2684.2
3438.9	10°	3438.9	3429.5	3397.8	3282.0	3061.6	2772.0	2531.1	2331.2	2200.4	2138.8
3562.2	12.5°	3562.2	3551.0	3494.9	3257.7	2852.3	2400.3	2067.8	1845.5	1724.1	1669.9
3704.1	15°	3707.9	3692.9	3582.7	3141.9	2547.9	1989.4	1684.9	1518.6	1440.2	1391.6
3885.3	17.5°	3889.0	3862.9	3648.1	2968.2	2217.2	1675.5	1449.5	1324.4	1255.3	1208.6
4122.5	20°	4124.4	4081.4	3700.4	2760.8	1912.8	1477.5	1290.7	1186.1	1133.8	1092.7
4458.8	22.5°	4453.2	4391.5	3763.9	2536.7	1698.0	1341.2	1173.1	1096.5	1053.5	1006.8
4927.6	25°	4860.4	4787.5	3842.3	2329.3	1550.4	1223.5	1087.1	1023.6	973.2	919.0
5542.2	27.5°	5430.1	5299.3	3935.7	2159.3	1423.4	1122.6	1008.7	937.7	879.8	835.0
6238.9	30°	6065.2	5850.4	4017.9	2056.6	1307.6	1029.2	905.9	835.0	780.8	749.0
6864.7	32.5°	6666.7	6375.3	4072.1	2011.8	1203.0	922.8	793.9	717.3	676.2	666.9
7477.4	35°	7234.5	6849.7	4066.5	1968.8	1109.6	816.3	683.7	605.2	573.5	579.1
8136.7	37.5°	7888.3	7355.9	4027.3	1901.6	1033.0	719.2	588.4	519.3	491.3	493.1
8938.1	40°	8648.6	7940.6	4003.0	1774.5	948.9	629.5	509.9	453.9	433.4	425.9
9782.4	42.5°	9459.2	8506.6	4006.7	1630.7	844.3	549.2	455.8	409.1	390.4	384.8
10722.0	45°	10273.7	9046.4	4012.3	1481.3	734.1	487.5	416.6	377.3	366.1	358.6
11674.6	47.5°	11039.5	9505.9	3907.7	1320.6	625.8	440.8	384.8	358.6	349.3	340.0
12631.0	50°	11753.1	9812.3	3655.6	1133.8	539.8	403.5	360.5	341.8	332.5	323.2
13497.7	52.5°	12307.8	9860.8	3239.0	941.4	480.1	375.5	345.6	328.8	317.5	308.2
14198.2	55°	12554.4	9556.4	2646.9	762.1	433.4	351.2	330.6	313.8	300.7	291.4
14749.2	57.5°	12490.9	8915.7	2064.1	612.7	388.5	326.9	311.9	300.7	285.8	270.9
15195.7	60°	12179.0	8058.3	1556.0	509.9	347.4	300.7	291.4	282.1	261.5	239.1
15367.5	62.5°	11639.1	6980.5	1109.6	422.2	302.6	270.9	267.1	259.6	229.8	188.7
15113.5	65°	10813.5	5671.1	747.2	351.2	259.6	237.2	239.1	226.0	186.8	140.1
14183.3	67.5°	9606.8	4146.8	478.2	287.7	216.7	198.0	199.9	192.4	158.8	119.5
12419.9	70°	8069.5	2745.9	311.9	218.5	173.7	153.2	164.4	166.2	134.5	97.1
9532.1	72.5°	5915.8	1621.4	218.5	162.5	127.0	106.5	134.5	138.2	108.3	72.8
5734.6	75°	3371.6	769.6	164.4	117.7	78.5	74.7	104.6	104.6	74.7	48.6
2482.5	77.5°	1415.9	321.3	115.8	76.6	44.8	43.0	71.0	65.4	37.4	22.4
605.2	80°	409.1	143.8	61.6	37.4	18.7	16.8	28.0	20.5	9.3	3.7
229.8	82.5°	160.6	63.5	24.3	14.9	7.5	7.5	3.7	0.0	0.0	0.0
130.8	85°	95.3	26.2	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
28.0	87.5°	24.3	5.6	3.7	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°
3240.9
3218.5
3080.2
2686.1
2133.2
1664.3
1393.5
1204.8
1085.3
999.3
913.4
825.6
743.4
672.5
579.1
500.6
424.0
382.9
358.6
340.0
323.2
306.3
289.5
269.0
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