

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: P949992

Luminaire Tested: **GALN-SB4C-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

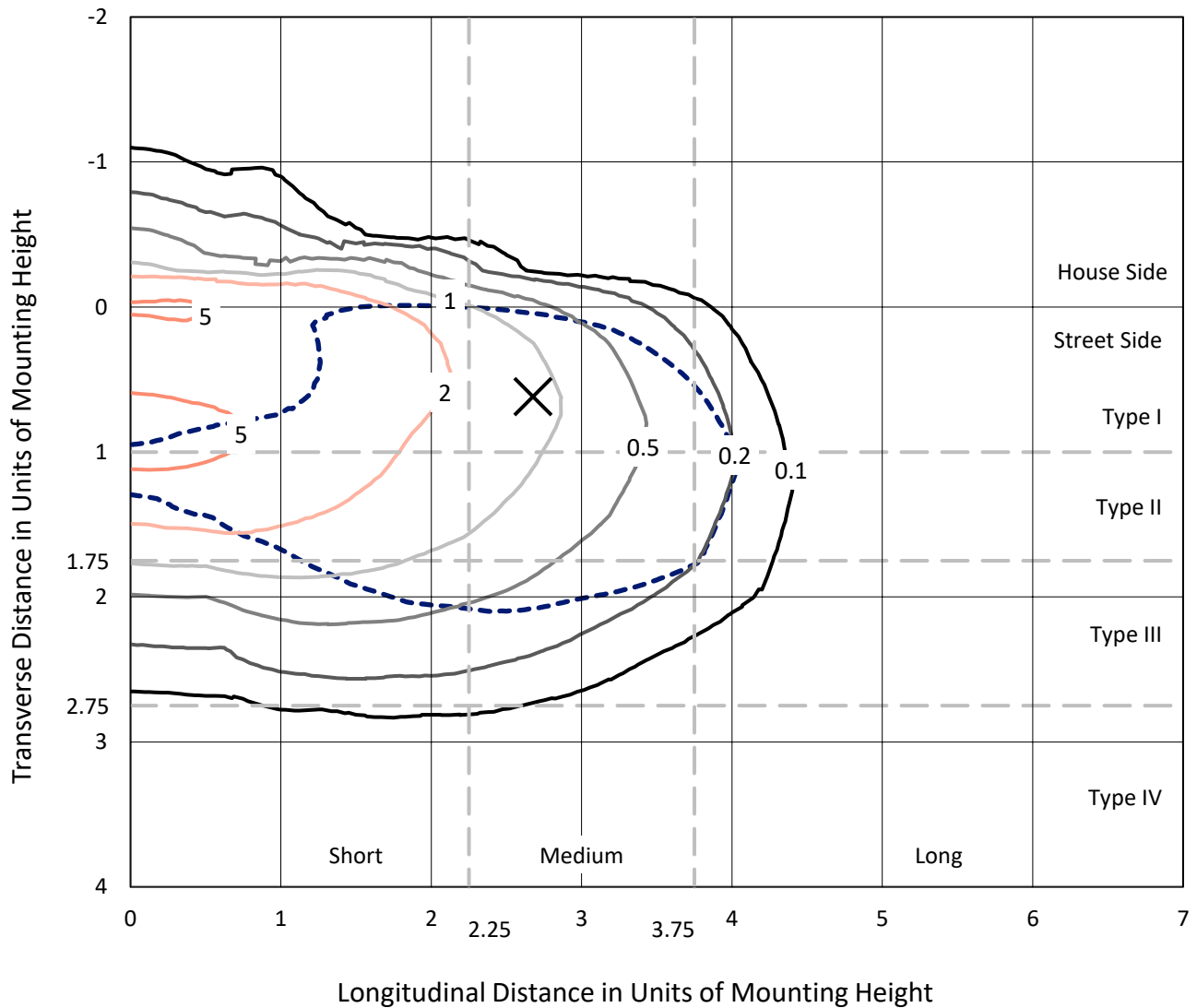
Lumens per Lamp: N/A  
Luminaire Lumens: 21729 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

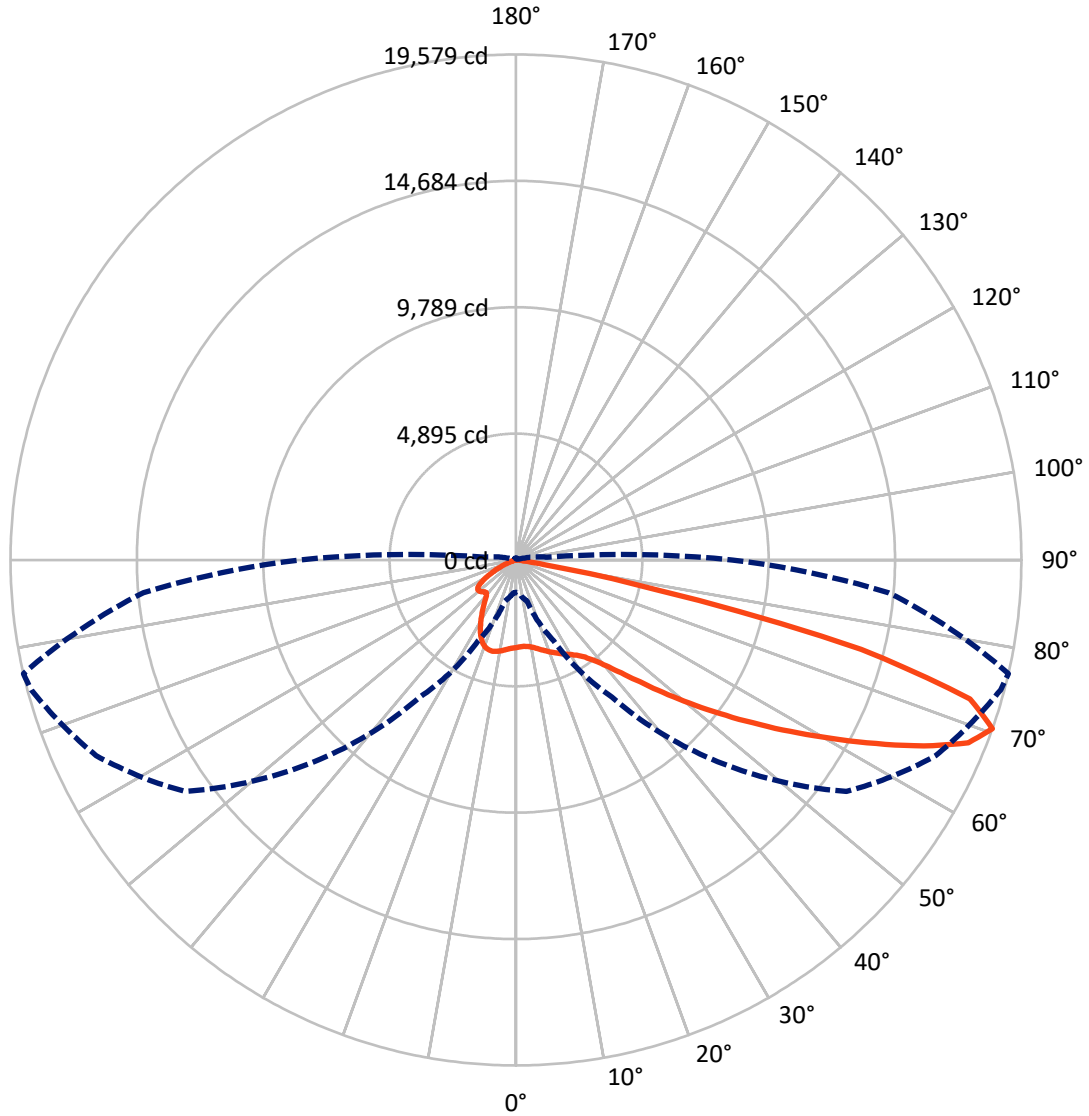
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2290.5	0.0	2290.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19438.4	0.0	19438.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	21729.0	0.0	21729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	1.3
10°-20°	693.4	3.2
20°-30°	1072.5	4.9
30°-40°	1946.2	9.0
40°-50°	3673.7	16.9
50°-60°	5308.1	24.4
60°-70°	5650.4	26.0
70°-80°	2994.3	13.8
80°-90°	98.3	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°	21729.0	100.0
0°-180°	21729.0	100.0

**Coefficient of Utilization**



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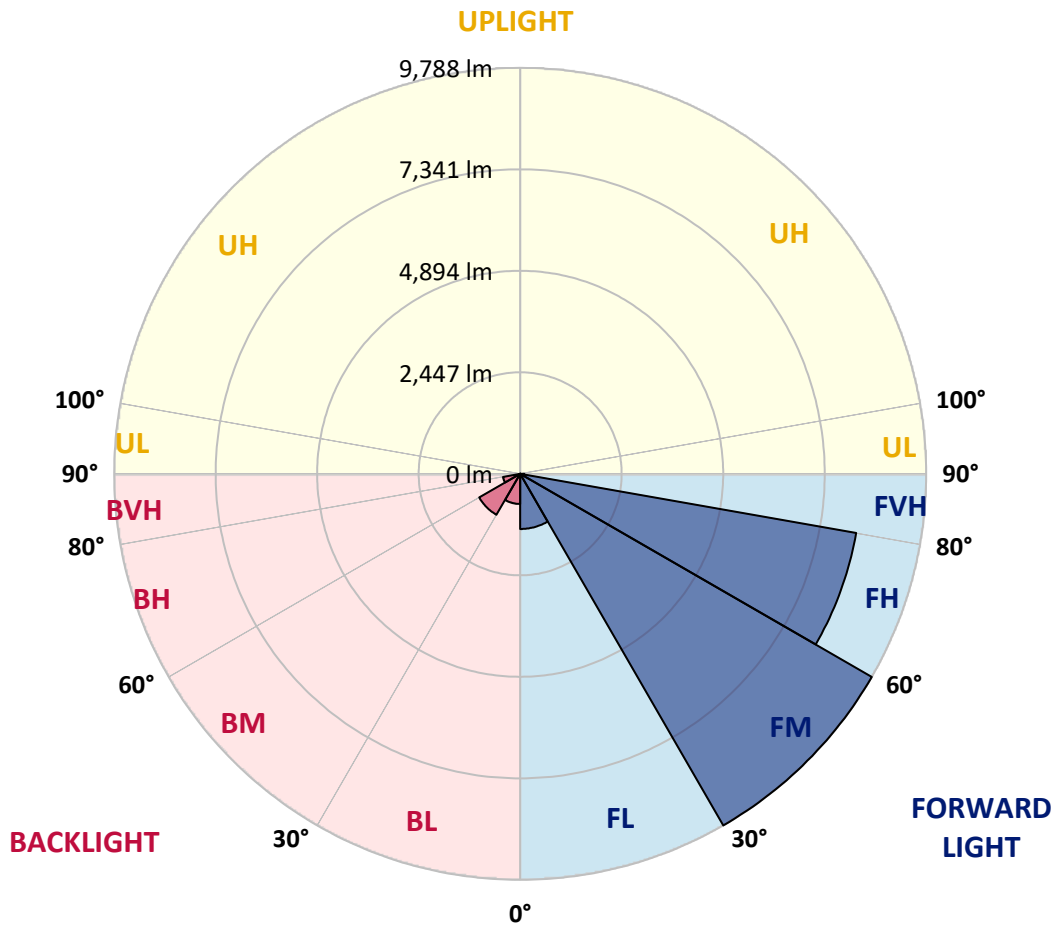
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.3	6.1			
FM (30°-60°)	9787.7	45.0			
FH (60°-80°)	8224.7	37.9			G4/12000
FVH (80°-90°)	95.7	0.4			G1/100
BL (0°-30°)	727.7	3.3	B2/1000		
BM (30°-60°)	1140.2	5.2	B2/2500		
BH (60°-80°)	419.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3
2.5°	3182.1	3210.9	3206.8	3226.0	3232.9	3260.3	3287.8	3324.8	3366.0	3364.6
5°	3002.4	3031.2	3038.0	3064.1	3097.1	3139.6	3195.9	3270.0	3346.8	3359.1
7.5°	2789.7	2819.9	2837.7	2889.9	2950.2	3038.0	3130.0	3238.4	3366.0	3383.8
10°	2577.0	2604.4	2627.8	2701.9	2797.9	2928.3	3077.8	3234.3	3405.8	3431.9
12.5°	2445.3	2471.3	2497.4	2561.9	2681.3	2840.5	3043.5	3253.5	3471.7	3508.7
15°	2398.6	2421.9	2442.5	2500.1	2611.3	2792.4	3036.7	3293.3	3555.4	3604.8
17.5°	2405.5	2417.8	2431.5	2475.4	2583.9	2770.5	3049.0	3361.9	3654.2	3698.1
20°	2445.3	2452.1	2453.5	2483.7	2579.7	2767.7	3073.7	3427.8	3747.5	3806.5
22.5°	2496.0	2498.8	2496.0	2516.6	2605.8	2788.3	3106.7	3507.3	3851.8	3906.7
25°	2733.4	2681.3	2615.4	2575.6	2649.7	2828.1	3156.1	3614.4	3965.7	4019.2
27.5°	3470.3	3320.7	3084.7	2819.9	2740.3	2885.7	3224.7	3722.8	4080.9	4128.9
30°	4666.8	4470.6	4069.9	3473.0	3031.2	3006.5	3313.9	3831.2	4203.0	4255.2
32.5°	5866.2	5818.1	5355.7	4529.6	3685.7	3275.4	3462.1	3978.0	4365.0	4406.1
35°	7079.2	6981.7	6603.0	5786.6	4694.3	3822.9	3709.1	4170.1	4577.7	4624.3
37.5°	8008.2	7949.1	7714.5	7042.1	5890.9	4668.2	4131.7	4467.9	4886.4	4938.5
40°	8828.7	8801.3	8721.7	8278.5	7228.7	5774.2	4789.0	4928.9	5314.5	5376.3
42.5°	9473.7	9538.2	9583.4	9459.9	8607.8	7036.6	5672.7	5576.6	5911.4	5974.6
45°	10133.7	10155.6	10338.1	10516.5	9977.3	8356.7	6668.9	6335.4	6653.8	6732.0
47.5°	10557.7	10645.5	10966.6	11280.8	11128.5	9665.8	7739.2	7231.5	7514.2	7661.0
50°	10589.3	10755.3	11197.1	11744.7	11966.9	10911.7	8902.8	8252.4	8552.9	8714.8
52.5°	10063.7	10321.7	11006.4	11807.8	12419.8	11966.9	10106.2	9273.3	9658.9	9870.2
55°	7715.9	8053.4	10288.7	11464.7	12437.6	12766.9	11278.1	10336.8	10891.1	11129.9
57.5°	6722.4	6892.6	8089.1	10869.2	12106.9	13089.4	12337.4	11349.5	12231.8	12528.2
60°	5593.1	5816.8	6784.2	9894.9	11658.2	13121.0	13273.3	12655.8	13684.9	14018.4
62.5°	3801.0	4043.9	5005.8	8220.8	11044.8	13105.9	14040.3	14000.5	15300.0	15658.2
65°	2354.7	2507.0	3141.0	6712.8	10187.2	13122.3	14843.1	15633.5	17004.3	17367.9
67.5°	1860.7	1930.7	2261.4	5154.0	8709.3	12751.8	15644.4	17169.0	18608.4	18896.6
70°	1250.1	1292.6	1645.3	3455.2	6479.5	11042.1	15629.3	17940.1	19434.5	19578.5
72.5°	658.7	691.6	961.9	1600.0	3913.5	7849.0	13174.5	17018.0	18612.5	18395.7
75°	329.3	384.2	647.7	812.3	1671.3	4377.3	8181.1	13417.4	14649.6	13809.8
77.5°	249.7	301.9	535.2	535.2	581.8	1473.7	3464.8	7317.9	6749.8	5620.5
80°	159.2	205.8	467.9	404.8	242.9	374.6	902.9	2050.1	1433.9	1090.9
82.5°	93.3	134.5	389.7	267.6	135.8	138.6	255.2	436.4	371.9	289.5
85°	37.0	87.8	267.6	105.7	53.5	34.3	76.8	93.3	76.8	57.6
87.5°	0.0	20.6	46.7	0.0	4.1	2.7	5.5	6.9	6.9	5.5
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°
3389.3	0°	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3
3392.1	2.5°	3404.4	3407.2	3415.4	3416.8	3397.6	3372.9	3363.3	3359.1	3342.7	3341.3
3414.0	5°	3445.6	3457.9	3445.6	3409.9	3324.8	3205.5	3114.9	3040.8	2973.6	2953.0
3489.5	7.5°	3527.9	3540.3	3503.2	3363.3	3149.2	2911.8	2697.7	2546.8	2411.0	2360.2
3581.4	10°	3645.9	3662.4	3545.8	3263.1	2884.4	2502.9	2140.6	1885.4	1686.4	1605.5
3706.3	12.5°	3794.1	3801.0	3569.1	3110.8	2539.9	1995.2	1482.0	1208.9	1031.9	966.0
3857.3	15°	3957.4	3947.8	3571.8	2903.6	2070.6	1410.6	967.4	794.5	723.1	701.2
4008.2	17.5°	4128.9	4089.2	3516.9	2604.4	1556.1	964.7	717.7	676.5	664.1	658.7
4157.8	20°	4297.7	4208.5	3416.8	2213.4	1117.0	720.4	651.8	639.4	632.6	629.8
4308.7	22.5°	4451.4	4299.1	3245.3	1759.2	811.0	636.7	616.1	605.1	592.8	587.3
4455.5	25°	4601.0	4351.2	3003.7	1335.1	649.1	595.5	579.1	558.5	542.0	535.2
4613.3	27.5°	4746.4	4384.2	2701.9	988.0	579.1	557.1	526.9	498.1	485.8	483.0
4782.1	30°	4901.5	4395.2	2358.8	736.9	536.5	509.1	465.2	432.2	425.4	426.8
5009.9	32.5°	5090.9	4411.6	2013.0	603.8	500.9	451.5	399.3	365.0	359.5	365.0
5342.0	35°	5317.3	4444.6	1679.6	555.7	469.3	392.4	336.2	307.4	301.9	306.0
5767.4	37.5°	5624.6	4498.1	1368.1	546.1	443.2	343.0	282.7	259.3	259.3	260.7
6288.8	40°	6033.6	4640.8	1089.5	539.3	429.5	306.0	238.8	229.2	233.3	236.0
6952.9	42.5°	6531.7	4944.0	901.5	531.0	414.4	289.5	216.8	212.7	219.6	222.3
7748.8	45°	7090.2	5328.2	835.7	517.3	400.7	300.5	207.2	201.7	209.9	211.3
8640.7	47.5°	7667.8	5704.2	827.4	502.2	387.0	317.0	204.5	192.1	201.7	203.1
9593.0	50°	8252.4	5949.9	835.7	478.9	365.0	317.0	205.8	182.5	190.7	194.9
10581.0	52.5°	8841.1	6062.4	830.2	428.1	326.6	297.8	205.8	174.3	182.5	185.2
11648.6	55°	9411.9	6040.4	746.5	352.7	277.2	263.5	200.3	167.4	172.9	174.3
12657.2	57.5°	9863.4	5734.4	591.4	274.4	225.0	219.6	182.5	159.2	163.3	161.9
13582.0	60°	10099.4	5062.0	422.6	211.3	177.0	172.9	160.5	148.2	150.9	144.1
14365.6	62.5°	10102.1	4172.9	282.7	167.4	141.3	137.2	137.2	133.1	130.4	116.6
14972.1	65°	9886.7	3186.2	188.0	133.1	113.9	107.0	115.3	113.9	104.3	85.1
15157.3	67.5°	9398.2	2088.5	142.7	104.3	87.8	83.7	91.9	96.1	89.2	71.4
14482.2	70°	8393.7	1215.8	118.0	81.0	65.9	61.7	74.1	82.3	74.1	57.6
12378.6	72.5°	6972.1	655.9	96.1	60.4	45.3	41.2	59.0	67.2	59.0	42.5
7942.3	75°	4524.1	351.3	74.1	39.8	23.3	26.1	43.9	49.4	41.2	27.4
2331.4	77.5°	1519.0	155.1	46.7	19.2	11.0	11.0	26.1	30.2	19.2	9.6
424.0	80°	338.9	64.5	19.2	8.2	4.1	4.1	5.5	5.5	2.7	0.0
130.4	82.5°	111.1	26.1	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
32.9	85°	42.5	9.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	87.5°	16.5	1.4	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>
3389.3
3344.0
2940.6
2339.6
1571.2
945.4
701.2
657.3
627.1
585.9
532.4
480.3
426.8
363.6
304.6
259.3
236.0
222.3
212.7
204.5
196.2
185.2
174.3
161.9
142.7
112.5
82.3
70.0
54.9
41.2
24.7
8.2
0.0
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