

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: P954904

Luminaire Tested: **GALN-SB8A-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

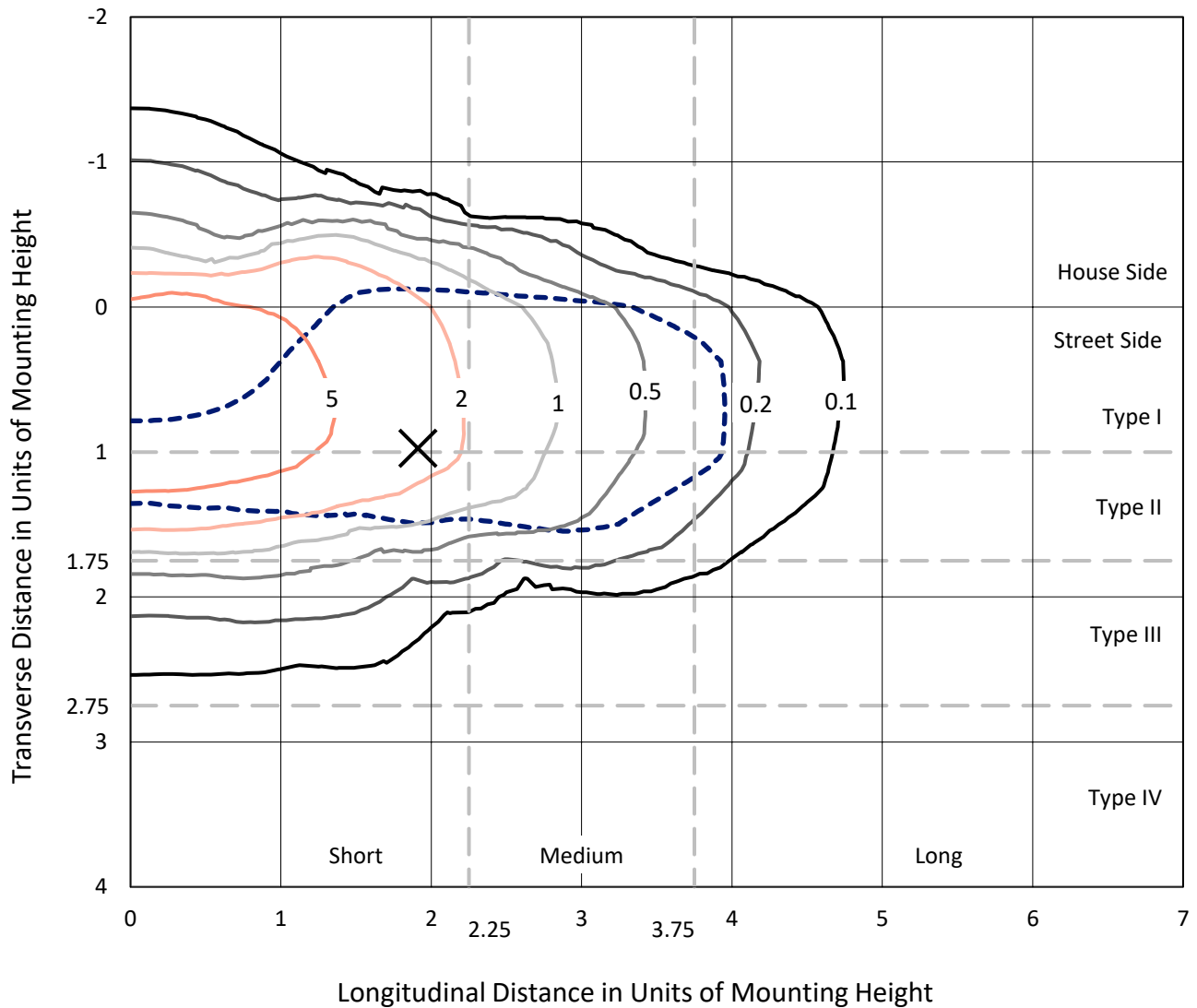
Lumens per Lamp: N/A  
Luminaire Lumens: 27721 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

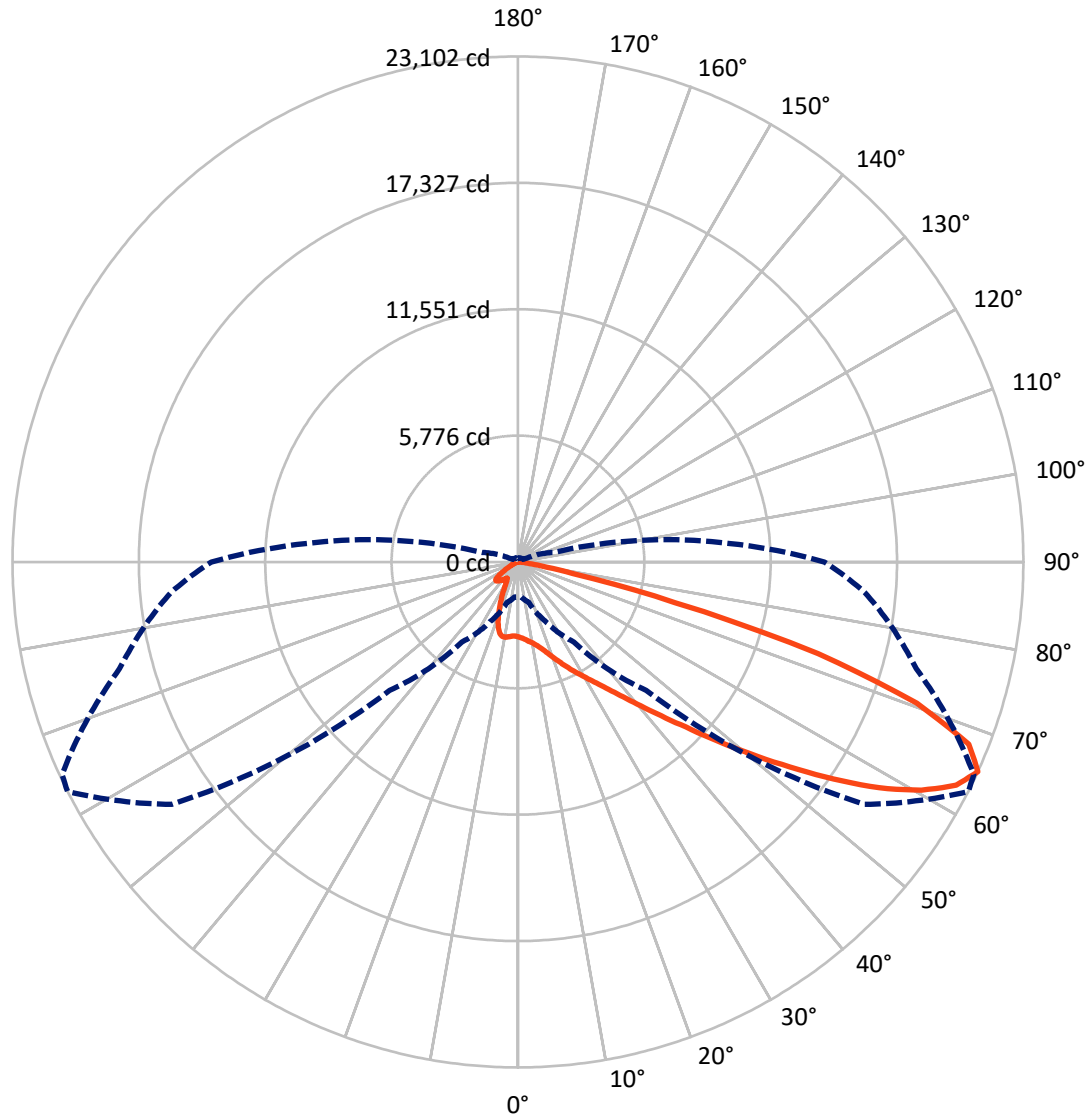
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4074.8	0.0	4074.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23646.2	0.0	23646.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	27721.0	0.0	27721.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.3	1.2
10°-20°	894.4	3.2
20°-30°	1557.4	5.6
30°-40°	2807.0	10.1
40°-50°	5567.2	20.1
50°-60°	7583.5	27.4
60°-70°	6053.1	21.8
70°-80°	2739.2	9.9
80°-90°	196.9	0.7
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°	27721.0	100.0
0°-180°	27721.0	100.0

**Coefficient of Utilization**



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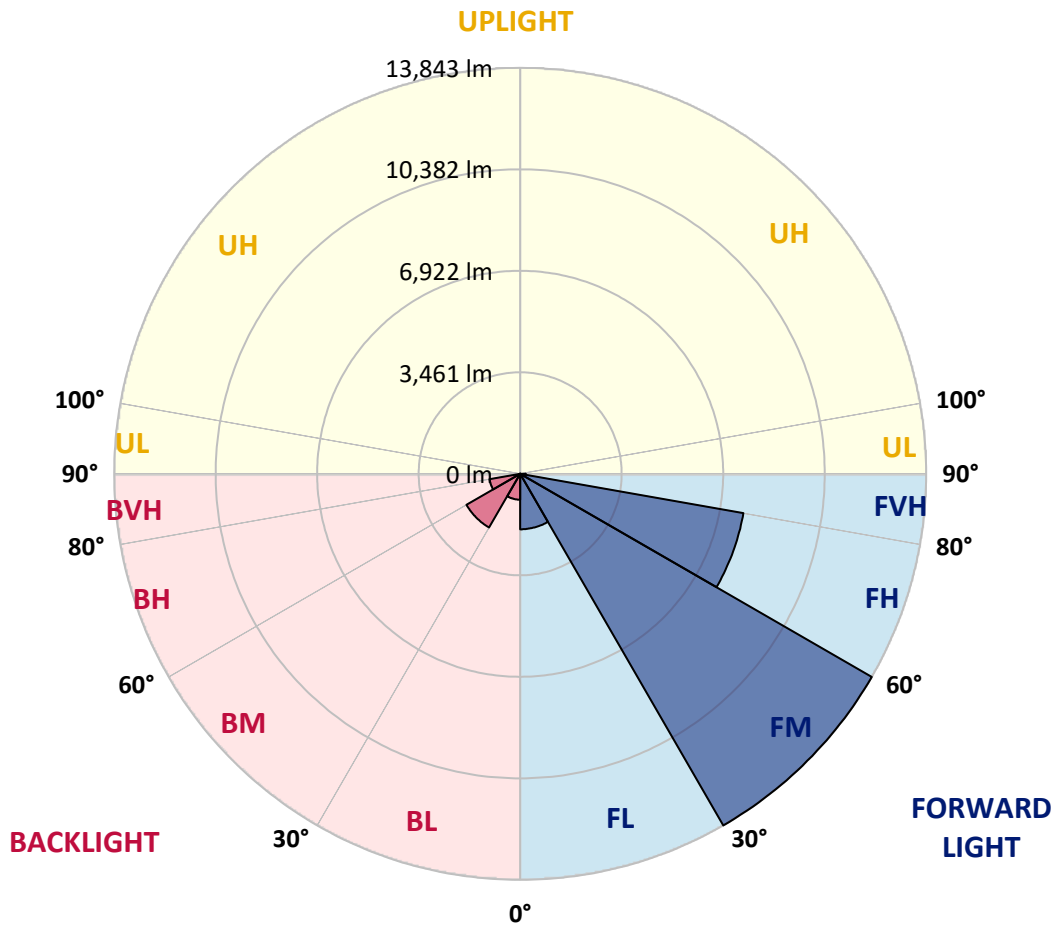
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.3	6.8			
FM (30°-60°)	13843.2	49.9			
FH (60°-80°)	7728.5	27.9			G4/12000
FVH (80°-90°)	182.3	0.7			G2/225
BL (0°-30°)	881.8	3.2	B2/1000		
BM (30°-60°)	2114.6	7.6	B2/2500		
BH (60°-80°)	1063.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
2.5°	3501.4	3491.9	3505.2	3499.5	3495.7	3488.0	3484.2	3480.4	3472.8	3467.1
5°	3510.9	3505.2	3518.6	3530.0	3541.4	3552.9	3558.6	3566.2	3558.6	3543.3
7.5°	3430.8	3427.0	3455.6	3489.9	3541.4	3585.3	3633.0	3659.7	3661.6	3655.9
10°	3425.1	3415.6	3444.2	3486.1	3552.9	3631.1	3715.0	3772.2	3779.8	3804.6
12.5°	3514.7	3505.2	3545.3	3591.0	3659.7	3741.7	3844.7	3924.8	3936.2	3970.5
15°	3665.4	3652.1	3697.8	3756.9	3844.7	3938.1	4046.8	4119.3	4128.8	4170.8
17.5°	3840.9	3827.5	3880.9	3943.8	4039.2	4167.0	4292.8	4372.9	4384.4	4411.1
20°	4065.9	4048.7	4090.7	4147.9	4249.0	4401.5	4552.2	4666.6	4664.7	4664.7
22.5°	4327.2	4300.5	4336.7	4382.5	4477.8	4662.8	4863.0	4998.4	4998.4	4945.0
25°	4607.5	4580.8	4620.8	4662.8	4746.7	4956.5	5191.1	5358.9	5366.5	5275.0
27.5°	4958.4	4924.1	4954.6	5004.2	5053.8	5267.3	5545.8	5740.3	5744.1	5603.0
30°	5633.5	5536.2	5440.9	5387.5	5410.4	5622.1	5919.6	6135.1	6154.1	5959.6
32.5°	6869.3	6850.2	6514.6	6075.9	5847.1	6003.5	6337.2	6596.6	6608.0	6358.2
35°	8789.7	8766.8	8227.1	7391.8	6646.2	6514.6	6844.5	7151.5	7143.9	6861.7
37.5°	11082.0	11061.0	10349.7	9232.2	8025.0	7286.9	7498.6	7820.9	7868.6	7498.6
40°	13040.6	12962.4	12512.3	11434.8	9855.8	8568.5	8429.3	8642.9	8692.5	8253.8
42.5°	14524.3	14457.5	14228.7	13555.5	12071.8	10464.1	9525.8	9607.9	9663.2	9136.8
45°	15292.8	15277.6	15369.1	15306.2	14329.8	12790.8	11093.5	10752.1	10773.1	10115.1
47.5°	15401.5	15393.9	15811.6	16402.8	16271.2	15414.9	13105.4	12178.6	12104.2	11219.3
50°	14760.8	14745.5	15546.5	16654.5	17568.0	17619.5	15390.1	13786.3	13622.2	12361.7
52.5°	12714.5	12710.7	14026.5	15870.7	18023.8	19549.4	17648.1	15552.2	15277.6	13570.8
55°	9783.3	9853.9	11362.4	13542.1	17192.3	20478.2	19675.3	17512.7	17091.2	14787.5
57.5°	6930.3	7033.3	8524.6	10466.0	14613.9	19928.9	21046.5	19477.0	19023.1	16000.4
60°	3722.6	3814.2	5307.4	7624.5	10872.2	17880.7	21769.3	21181.9	20752.8	17152.2
62.5°	2217.9	2248.4	2866.3	4922.2	7353.7	13660.4	21462.2	22480.6	22127.8	18119.1
65°	1592.4	1598.1	1909.0	3005.6	4464.5	8299.6	19309.1	23102.3	22993.6	18847.6
67.5°	1340.7	1336.9	1466.5	1996.7	3041.8	4157.4	14798.9	22223.2	22684.7	19309.1
70°	1150.0	1155.7	1308.3	1462.7	2286.6	2353.3	7357.5	19349.2	20333.2	19431.2
72.5°	856.3	875.3	1016.5	1333.0	1725.9	1619.1	2540.2	14346.9	16126.2	18307.9
75°	604.5	614.1	715.2	1121.4	1287.3	1178.6	1296.8	7416.6	9697.5	14036.1
77.5°	465.3	482.5	541.6	783.8	1268.2	827.7	793.3	2566.9	3943.8	8478.9
80°	251.7	282.2	391.0	566.4	890.6	585.5	392.9	1022.2	1336.9	3964.8
82.5°	129.7	144.9	272.7	408.1	507.3	511.1	194.5	425.3	551.1	1224.3
85°	51.5	62.9	183.1	225.0	261.3	251.7	87.7	171.6	198.3	339.5
87.5°	11.4	19.1	66.7	51.5	49.6	53.4	21.0	40.0	38.1	40.0
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°
3421.3	0°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
3444.2	2.5°	3442.3	3434.6	3413.7	3390.8	3364.1	3348.8	3339.3	3337.4	3324.0	3314.5
3520.5	5°	3499.5	3491.9	3451.8	3404.1	3352.6	3312.6	3274.5	3240.1	3190.5	3181.0
3631.1	7.5°	3613.9	3592.9	3528.1	3463.3	3366.0	3249.7	3108.5	2946.4	2801.5	2757.6
3777.9	10°	3755.0	3726.4	3644.4	3530.0	3314.5	2997.9	2656.6	2340.0	2088.2	2017.7
3951.5	12.5°	3915.2	3890.4	3781.7	3570.0	3099.0	2525.0	2002.4	1609.6	1365.5	1304.4
4136.4	15°	4105.9	4069.7	3919.0	3509.0	2713.8	1918.5	1375.0	1142.3	1054.6	1043.2
4348.1	17.5°	4308.1	4249.0	4041.1	3289.7	2195.0	1363.6	1062.2	995.5	957.4	945.9
4561.7	20°	4493.1	4416.8	4113.6	2957.9	1640.1	1062.2	951.6	907.8	873.4	860.1
4775.3	22.5°	4678.1	4569.4	4113.6	2505.9	1230.1	942.1	873.4	833.4	793.3	776.2
5004.2	25°	4870.7	4725.7	4041.1	2002.4	989.8	863.9	799.1	755.2	720.9	699.9
5221.6	27.5°	5057.6	4857.3	3875.2	1525.7	881.1	795.3	730.4	688.5	656.0	640.8
5458.1	30°	5234.9	4987.0	3642.5	1157.6	810.5	728.5	667.5	631.2	598.8	583.6
5765.1	32.5°	5475.2	5151.0	3394.6	949.7	749.5	665.6	610.3	575.9	547.3	535.9
6163.7	35°	5809.0	5393.2	3181.0	932.6	698.0	614.1	558.8	526.4	497.7	488.2
6678.6	37.5°	6281.9	5784.2	3068.5	1047.0	656.0	568.3	516.8	482.5	455.8	448.2
7332.7	40°	6865.5	6314.3	3129.5	1161.4	627.4	528.3	478.7	444.3	421.5	411.9
8084.1	42.5°	7557.7	6968.5	3467.1	1249.1	608.4	493.9	442.4	404.3	389.0	385.2
8936.6	45°	8353.0	7687.4	3983.9	1342.6	577.8	461.5	406.2	377.6	366.2	364.3
9863.4	47.5°	9256.9	8477.0	4582.7	1458.9	547.3	431.0	377.6	358.5	349.0	345.2
10830.3	50°	10153.3	9272.2	5198.7	1523.8	522.5	402.4	354.7	339.5	331.8	329.9
11852.5	52.5°	11091.6	10090.3	5696.4	1462.7	501.6	379.5	335.6	324.2	316.6	314.7
12794.6	55°	11986.0	10752.1	5782.3	1241.5	459.6	356.6	314.7	308.9	299.4	299.4
13750.0	57.5°	12756.4	11083.9	5175.8	911.6	417.6	322.3	293.7	288.0	280.3	278.4
14612.0	60°	13464.0	10988.6	3995.3	614.1	371.9	288.0	267.0	263.2	255.5	246.0
15361.5	62.5°	13862.5	10569.0	2732.8	400.5	326.1	251.7	236.5	234.6	217.4	198.3
15916.5	65°	14013.2	9707.0	1704.9	291.8	272.7	215.5	204.1	200.2	175.5	154.5
16231.1	67.5°	13881.6	8288.2	860.1	230.8	215.5	179.3	167.8	167.8	150.7	131.6
16212.1	70°	13355.3	6213.3	362.3	185.0	165.9	137.3	137.3	144.9	127.8	106.8
15371.0	72.5°	12212.9	4180.3	192.6	141.1	124.0	97.3	112.5	118.2	101.1	80.1
12581.0	75°	9708.9	2549.8	133.5	104.9	78.2	68.7	85.8	89.6	68.7	53.4
8625.7	77.5°	6640.4	1464.6	89.6	66.7	49.6	40.0	59.1	55.3	36.2	24.8
3325.9	80°	2915.9	610.3	51.5	30.5	19.1	15.3	21.0	15.3	11.4	7.6
455.8	82.5°	341.4	143.0	19.1	11.4	7.6	3.8	1.9	0.0	0.0	0.0
139.2	85°	70.6	17.2	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
24.8	87.5°	13.3	3.8	1.9	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>
3421.3
3324.0
3177.2
2736.7
1991.0
1287.3
1031.7
940.2
852.5
766.6
692.3
640.8
585.5
535.9
488.2
446.3
410.0
385.2
362.3
345.2
329.9
314.7
297.5
276.5
244.1
194.5
152.6
129.7
104.9
80.1
51.5
26.7
7.6
0.0
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