

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: P941806

Luminaire Tested: **GALN-SB5C-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941806  
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-SB5C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

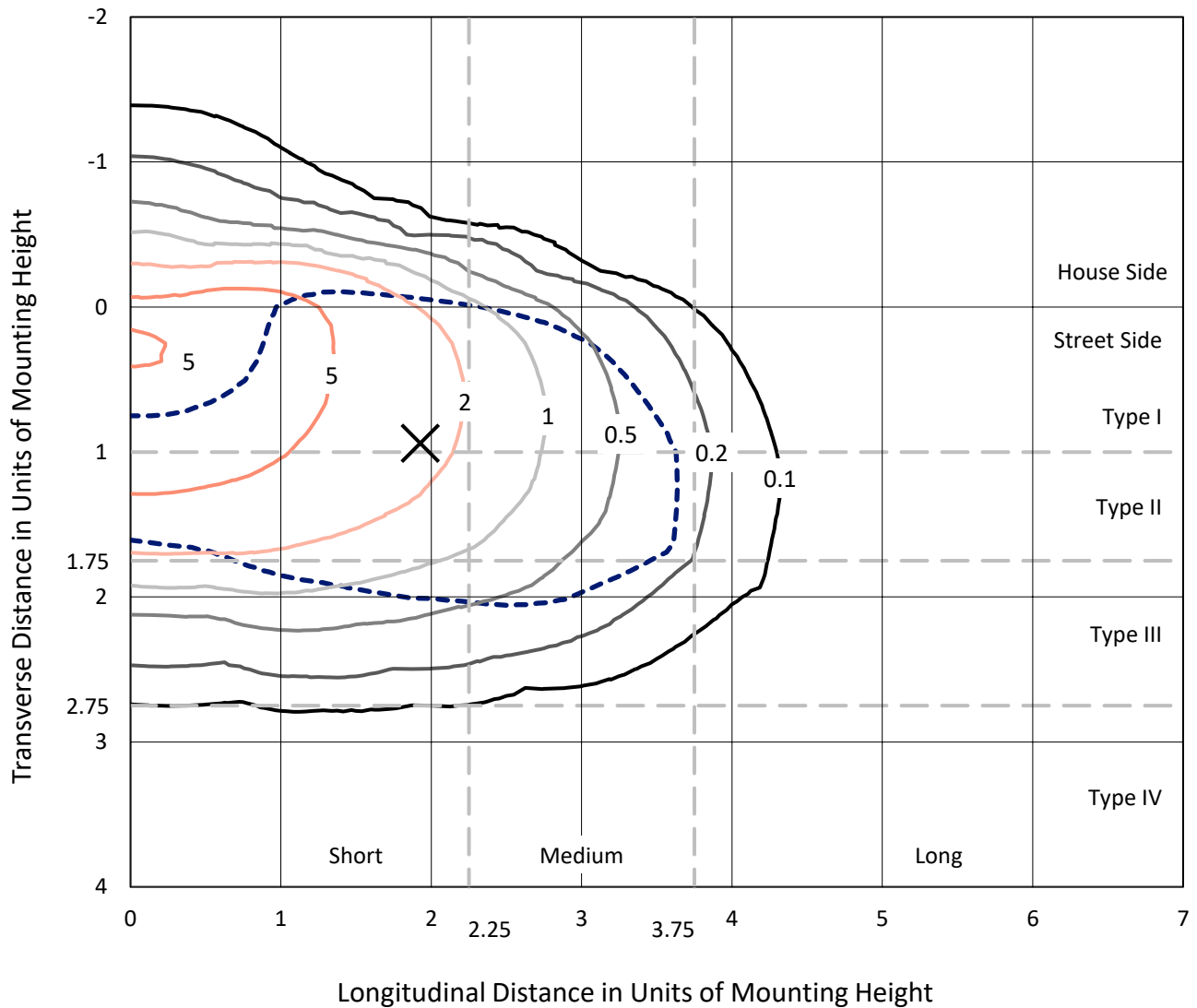
Lumens per Lamp: N/A  
Luminaire Lumens: 29670 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

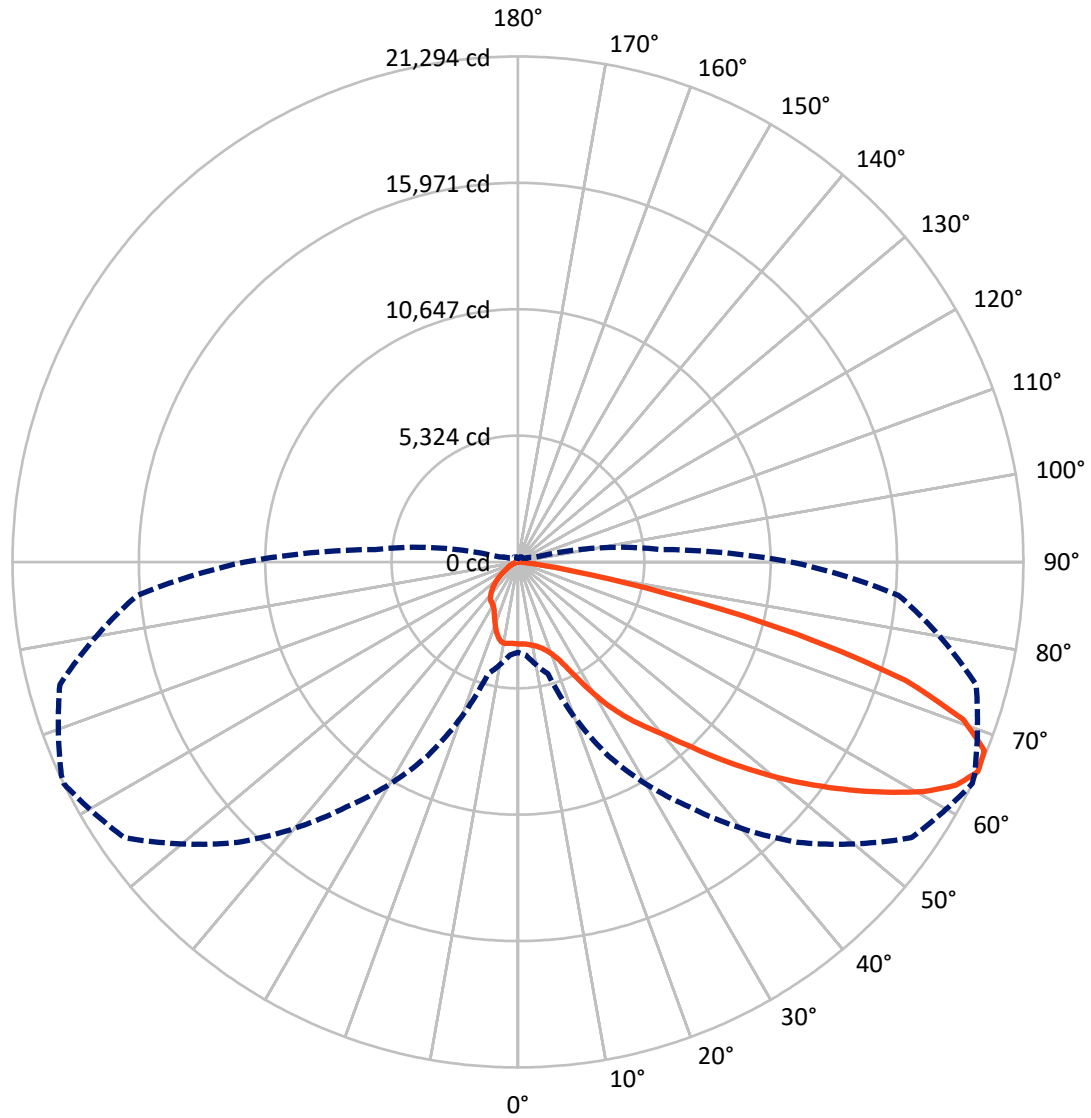
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P941806  
CATALOG NUMBER: GALN-SB5C-735-U-T3-HSS

### 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	3967.8	0.0	3967.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	25702.2	0.0	25702.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	29670.0	0.0	29670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	1.1
10°-20°	863.5	2.9
20°-30°	1636.3	5.5
30°-40°	3311.2	11.2
40°-50°	5640.6	19.0
50°-60°	7670.8	25.9
60°-70°	7203.3	24.3
70°-80°	2886.0	9.7
80°-90°	139.8	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°	29670.0	100.0
0°-180°	29670.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941806

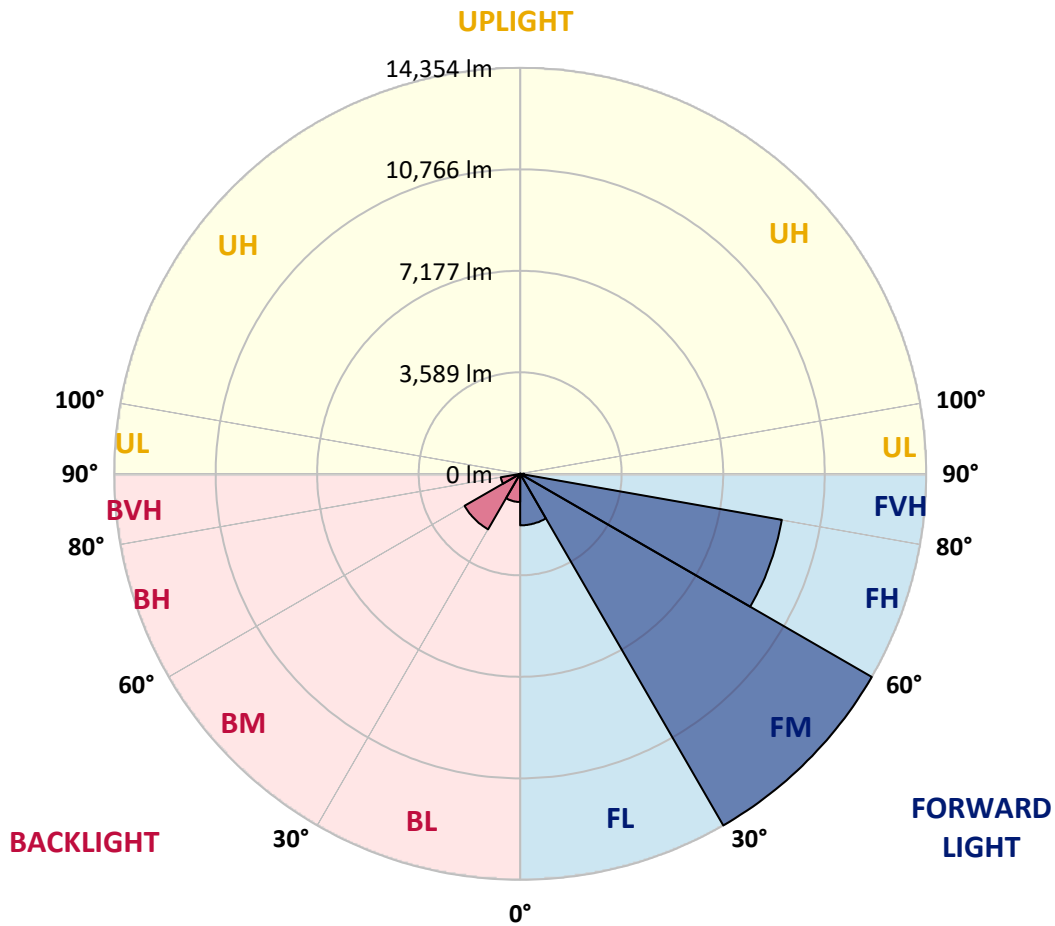
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.1	6.1			
FM (30°-60°)	14354.3	48.4			
FH (60°-80°)	9392.8	31.7			G4/12000
FVH (80°-90°)	133.0	0.4			G2/225
BL (0°-30°)	996.2	3.4	B2/1000		
BM (30°-60°)	2268.3	7.6	B2/2500		
BH (60°-80°)	696.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.8	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°	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9
2.5°	3439.0	3462.9	3456.9	3450.9	3448.9	3452.9	3454.9	3452.9	3452.9	3452.9
5°	3373.4	3393.2	3393.2	3407.2	3427.1	3450.9	3468.8	3472.8	3476.8	3482.8
7.5°	3248.1	3264.0	3275.9	3321.6	3371.4	3435.0	3488.7	3516.6	3520.5	3542.4
10°	3162.5	3182.4	3202.3	3250.0	3321.6	3417.1	3508.6	3576.2	3586.2	3637.9
12.5°	3158.5	3178.4	3204.3	3256.0	3339.5	3441.0	3552.4	3649.8	3667.7	3743.3
15°	3200.3	3224.2	3248.1	3311.7	3401.2	3524.5	3643.9	3765.2	3783.1	3890.5
17.5°	3285.8	3317.7	3335.6	3399.2	3494.7	3631.9	3789.1	3928.3	3944.2	4069.5
20°	3454.9	3492.7	3498.7	3550.4	3643.9	3791.0	3978.0	4151.1	4171.0	4314.2
22.5°	3805.0	3858.7	3810.9	3836.8	3920.3	4067.5	4270.4	4489.2	4517.0	4680.1
25°	4421.6	4497.1	4373.8	4330.1	4365.9	4519.0	4773.6	5050.1	5081.9	5213.2
27.5°	5632.9	5535.4	5348.4	5165.5	5058.0	5145.6	5432.0	5774.1	5813.9	5941.2
30°	6963.5	6878.0	6625.4	6219.6	5965.0	5951.1	6215.7	6597.5	6643.3	6764.6
32.5°	8296.2	8214.6	7940.1	7440.9	6999.3	6780.5	6963.5	7387.2	7411.0	7488.6
35°	9606.9	9523.4	9248.9	8737.7	8194.7	7697.5	7661.7	8139.0	8147.0	8228.5
37.5°	10925.6	10856.0	10563.6	10062.4	9527.3	8841.1	8509.0	8851.1	8861.0	8940.6
40°	11866.4	11896.3	11695.4	11307.5	10848.1	10098.2	9459.7	9608.9	9549.2	9682.5
42.5°	12674.0	12733.6	12558.6	12363.7	12097.1	11436.8	10637.2	10611.4	10515.9	10587.5
45°	13372.1	13421.8	13264.7	13218.9	13213.0	12749.5	11924.1	11769.0	11635.7	11621.8
47.5°	13628.7	13724.2	13791.8	13944.9	14243.3	14048.4	13254.8	13014.1	12864.9	12755.5
50°	13726.1	13827.6	14058.3	14503.8	15209.9	15293.5	14579.4	14308.9	14125.9	13927.0
52.5°	13594.9	13775.9	14086.2	14836.0	15860.4	16292.0	15850.4	15613.7	15404.9	15080.7
55°	12821.1	13002.1	13636.6	14832.0	16184.6	16992.1	17051.8	16946.3	16711.6	16200.5
57.5°	11190.2	11458.7	12463.1	14326.8	16178.6	17594.8	18229.3	18304.8	18042.3	17310.3
60°	8930.6	9294.6	10519.9	13207.0	15679.4	17921.0	19261.6	19639.5	19361.0	18404.3
62.5°	6231.6	6653.2	7812.8	11452.7	14537.7	17686.3	20015.4	20713.5	20502.7	19382.9
65°	3801.0	3936.2	4871.1	9012.2	12596.4	16703.7	20248.1	21294.3	21224.7	19981.6
67.5°	2532.0	2645.4	2913.9	6179.8	9778.0	14740.5	19691.2	21192.9	21212.8	19884.1
70°	1525.6	1623.0	1798.1	3594.1	6337.0	11667.5	17966.7	19900.0	20015.4	18581.3
72.5°	628.5	694.2	853.3	1629.0	3281.9	7405.1	14306.9	17085.6	17354.1	15623.7
75°	356.0	389.8	501.2	817.5	1424.1	3450.9	8666.1	12129.0	12524.8	10768.5
77.5°	236.7	252.6	324.2	529.1	801.6	1177.5	3703.5	6319.1	7074.9	5881.5
80°	159.1	173.0	222.8	354.0	521.1	505.2	1179.5	2341.1	2880.1	2020.8
82.5°	107.4	109.4	159.1	232.7	330.2	244.6	348.1	728.0	914.9	584.8
85°	61.7	59.7	117.4	135.3	147.2	101.4	105.4	218.8	286.4	246.6
87.5°	8.0	11.9	45.7	35.8	19.9	21.9	21.9	37.8	55.7	59.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941806  
 CATALOG NUMBER: GALN-SB5C-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3450.9	0°	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9	3450.9
3454.9	2.5°	3454.9	3452.9	3447.0	3441.0	3427.1	3419.1	3423.1	3419.1	3417.1	3419.1
3480.8	5°	3480.8	3474.8	3458.9	3439.0	3411.1	3377.3	3355.5	3323.6	3293.8	3275.9
3550.4	7.5°	3550.4	3544.4	3522.5	3466.8	3377.3	3236.1	3106.8	2993.5	2907.9	2858.2
3661.8	10°	3661.8	3651.8	3618.0	3494.7	3260.0	2951.7	2695.1	2482.3	2343.1	2277.4
3793.0	12.5°	3793.0	3781.1	3721.4	3468.8	3037.2	2555.9	2201.8	1965.1	1835.9	1778.2
3944.2	15°	3948.2	3932.3	3814.9	3345.5	2713.0	2118.3	1794.1	1617.1	1533.5	1481.8
4137.1	17.5°	4141.1	4113.3	3884.5	3160.5	2361.0	1784.1	1543.5	1410.2	1336.6	1286.9
4389.7	20°	4391.7	4346.0	3940.2	2939.8	2036.7	1573.3	1374.4	1263.0	1207.3	1163.6
4747.8	22.5°	4741.8	4676.2	4007.9	2701.1	1808.0	1428.1	1249.1	1167.5	1121.8	1072.1
5247.0	25°	5175.4	5097.8	4091.4	2480.3	1650.9	1302.8	1157.6	1090.0	1036.3	978.6
5901.4	27.5°	5782.0	5642.8	4190.8	2299.3	1515.6	1195.4	1074.1	998.5	936.8	889.1
6643.3	30°	6458.3	6229.6	4278.4	2189.9	1392.3	1095.9	964.7	889.1	831.4	797.6
7309.6	32.5°	7098.8	6788.5	4336.0	2142.2	1280.9	982.6	845.3	763.8	720.0	710.1
7962.0	35°	7703.4	7293.7	4330.1	2096.4	1181.5	869.2	728.0	644.4	610.6	616.6
8664.1	37.5°	8399.6	7832.7	4288.3	2024.8	1099.9	765.8	626.5	552.9	523.1	525.1
9517.4	40°	9209.1	8455.3	4262.4	1889.6	1010.4	670.3	543.0	483.3	461.4	453.5
10416.4	42.5°	10072.3	9057.9	4266.4	1736.4	899.0	584.8	485.3	435.6	415.7	409.7
11416.9	45°	10939.5	9632.8	4272.4	1577.3	781.7	519.1	443.5	401.8	389.8	381.9
12431.3	47.5°	11755.0	10122.1	4161.0	1406.2	666.3	469.4	409.7	381.9	371.9	362.0
13449.7	50°	12514.8	10448.3	3892.5	1207.3	574.8	429.6	383.9	364.0	354.0	344.1
14372.6	52.5°	13105.6	10500.0	3448.9	1002.5	511.2	399.8	368.0	350.1	338.1	328.2
15118.5	55°	13368.1	10175.8	2818.4	811.5	461.4	373.9	352.1	334.2	320.2	310.3
15705.2	57.5°	13300.5	9493.5	2197.9	652.4	413.7	348.1	332.2	320.2	304.3	288.4
16180.6	60°	12968.3	8580.6	1656.8	543.0	370.0	320.2	310.3	300.3	278.5	254.6
16363.6	62.5°	12393.5	7432.9	1181.5	449.5	322.2	288.4	284.4	276.5	244.6	200.9
16093.1	65°	11514.4	6038.6	795.6	373.9	276.5	252.6	254.6	240.7	198.9	149.2
15102.5	67.5°	10229.5	4415.6	509.2	306.3	230.7	210.8	212.8	204.9	169.1	127.3
13224.9	70°	8592.5	2923.8	332.2	232.7	185.0	163.1	175.0	177.0	143.2	103.4
10149.9	72.5°	6299.2	1726.5	232.7	173.0	135.3	113.4	143.2	147.2	115.4	77.6
6106.3	75°	3590.2	819.5	175.0	125.3	83.5	79.6	111.4	111.4	79.6	51.7
2643.4	77.5°	1507.7	342.1	123.3	81.5	47.7	45.7	75.6	69.6	39.8	23.9
644.4	80°	435.6	153.2	65.6	39.8	19.9	17.9	29.8	21.9	9.9	4.0
244.6	82.5°	171.1	67.6	25.9	15.9	8.0	8.0	4.0	0.0	0.0	0.0
139.2	85°	101.4	27.8	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
29.8	87.5°	25.9	6.0	4.0	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°
3450.9
3427.1
3279.9
2860.2
2271.4
1772.2
1483.8
1282.9
1155.6
1064.1
972.6
879.1
791.6
716.0
616.6
533.1
451.5
407.7
381.9
362.0
344.1
326.2
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