

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: P941636

Luminaire Tested: **GALN-SB5B-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941636  
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-SB5B-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

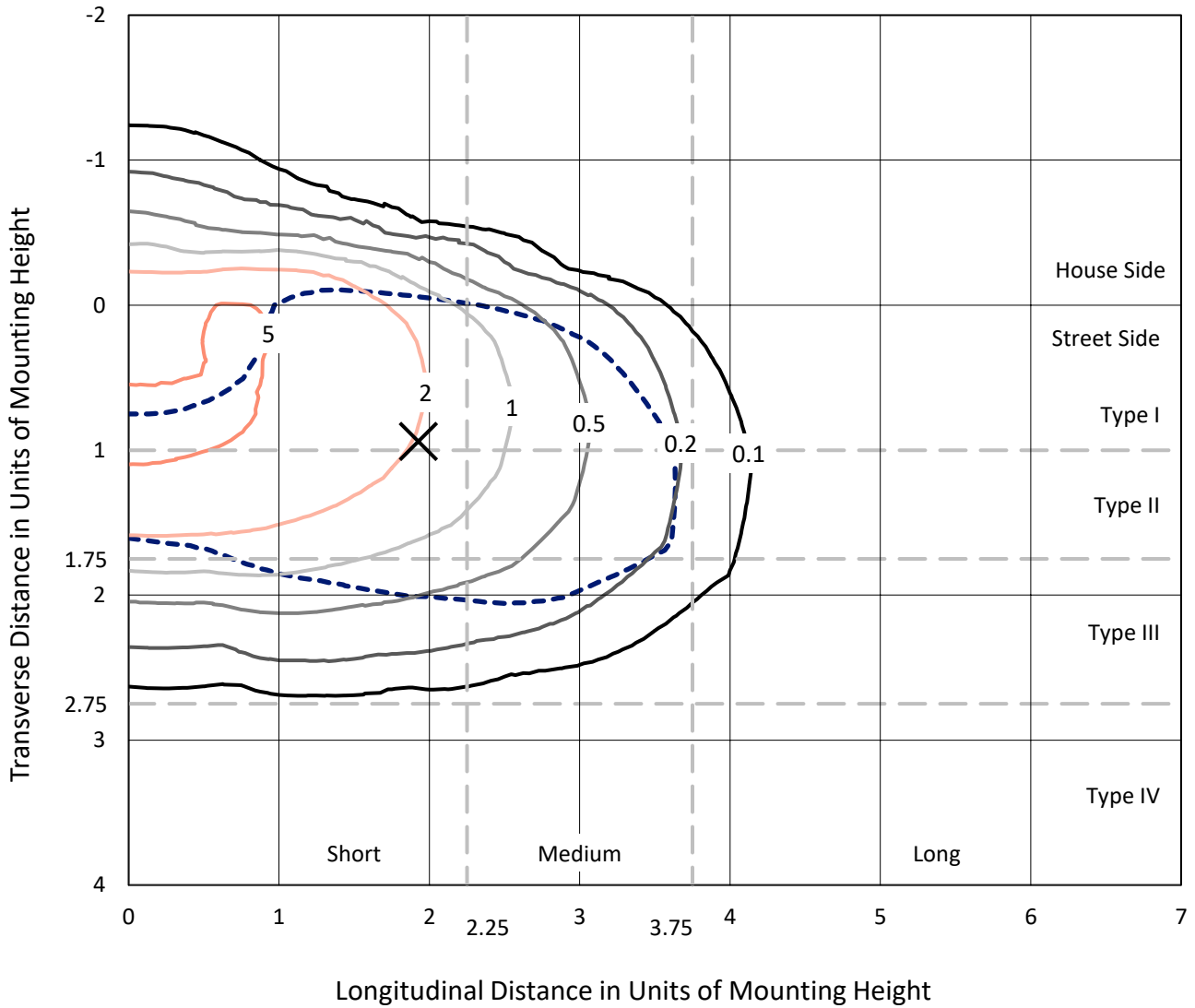
Lumens per Lamp: N/A  
Luminaire Lumens: 22309 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

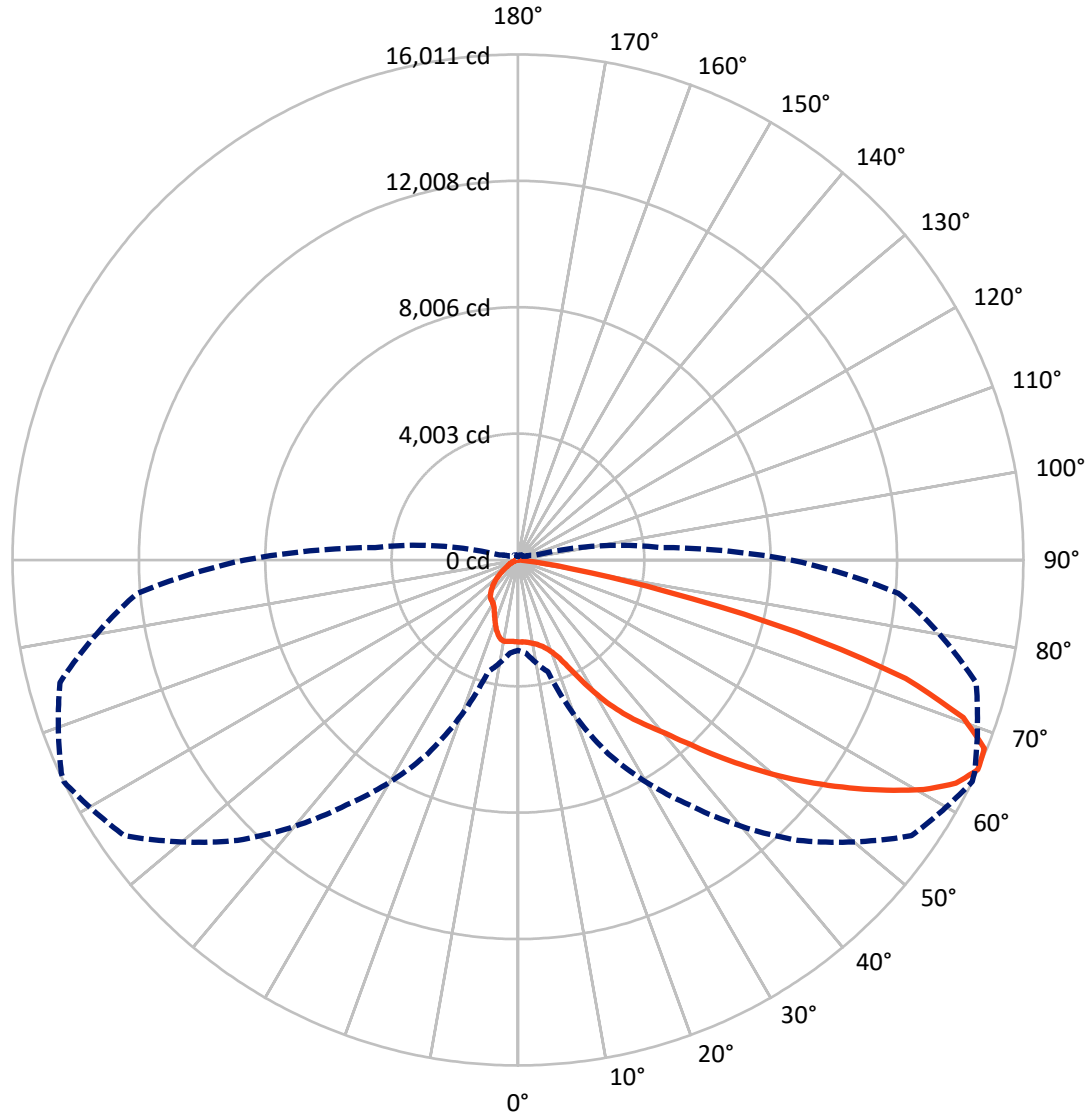
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2983.4	0.0	2983.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	19325.6	0.0	19325.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	22309.0	0.0	22309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	1.1
10°-20°	649.3	2.9
20°-30°	1230.4	5.5
30°-40°	2489.7	11.2
40°-50°	4241.2	19.0
50°-60°	5767.7	25.9
60°-70°	5416.2	24.3
70°-80°	2170.0	9.7
80°-90°	105.1	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°	22309.0	100.0
0°-180°	22309.0	100.0

**Coefficient of Utilization**



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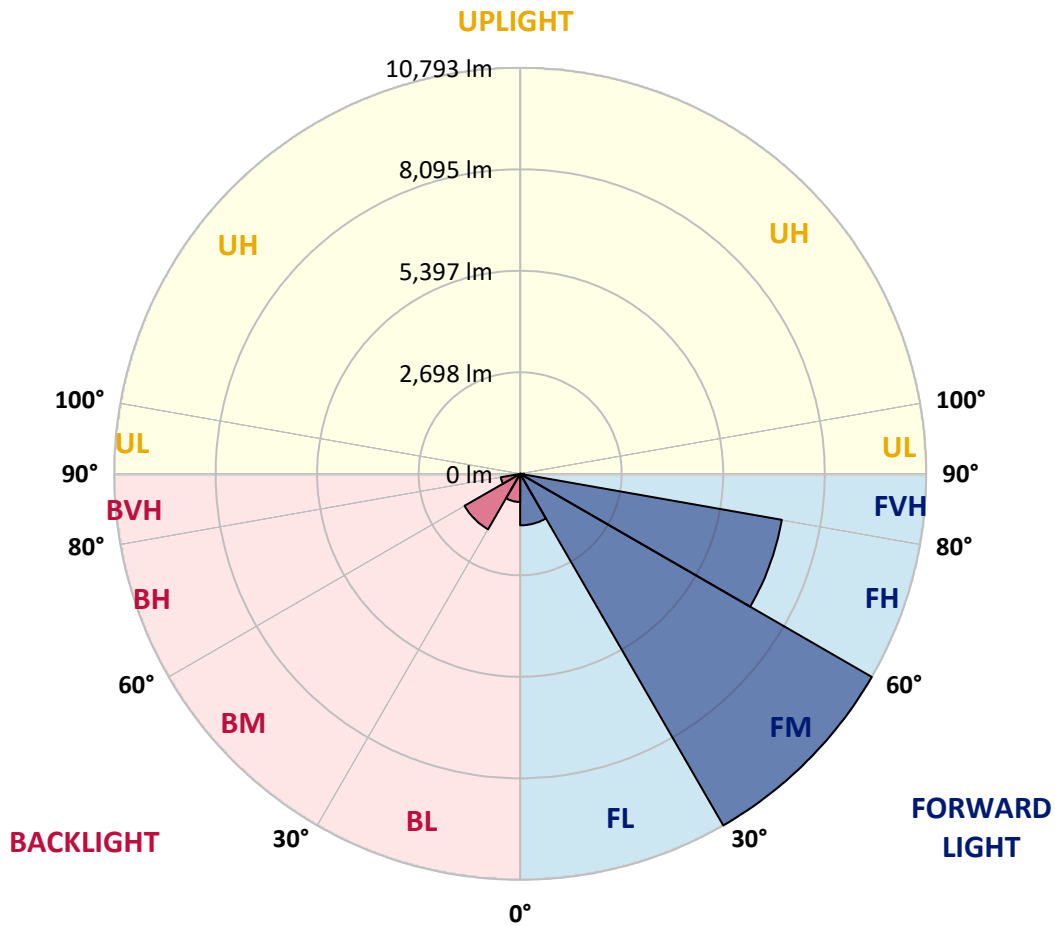
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.0	6.1			
FM (30°-60°)	10793.1	48.4			
FH (60°-80°)	7062.5	31.7			G3/7500
FVH (80°-90°)	100.0	0.4			G1/100
BL (0°-30°)	749.0	3.4	B2/1000		
BM (30°-60°)	1705.6	7.6	B2/2500		
BH (60°-80°)	523.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.1	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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2.5°	2585.8	2603.7	2599.3	2594.8	2593.3	2596.3	2597.8	2596.3	2596.3	2596.3
5°	2536.4	2551.4	2551.4	2561.9	2576.8	2594.8	2608.2	2611.2	2614.2	2618.7
7.5°	2442.2	2454.2	2463.2	2497.6	2534.9	2582.8	2623.2	2644.1	2647.1	2663.6
10°	2377.9	2392.9	2407.8	2443.7	2497.6	2569.3	2638.1	2689.0	2696.5	2735.3
12.5°	2374.9	2389.9	2409.3	2448.2	2511.0	2587.3	2671.0	2744.3	2757.8	2814.6
15°	2406.3	2424.3	2442.2	2490.1	2557.4	2650.1	2739.8	2831.1	2844.5	2925.3
17.5°	2470.6	2494.6	2508.0	2555.9	2627.7	2730.9	2849.0	2953.7	2965.7	3059.9
20°	2597.8	2626.2	2630.7	2669.5	2739.8	2850.5	2991.1	3121.2	3136.2	3243.8
22.5°	2861.0	2901.4	2865.5	2884.9	2947.7	3058.4	3210.9	3375.4	3396.4	3519.0
25°	3324.6	3381.4	3288.7	3255.8	3282.7	3397.9	3589.3	3797.2	3821.1	3919.8
27.5°	4235.4	4162.1	4021.5	3883.9	3803.2	3869.0	4084.3	4341.6	4371.5	4467.2
30°	5235.9	5171.6	4981.7	4676.6	4485.1	4474.7	4673.6	4960.7	4995.1	5086.3
32.5°	6237.9	6176.6	5970.2	5594.8	5262.8	5098.3	5235.9	5554.4	5572.4	5630.7
35°	7223.5	7160.7	6954.3	6569.9	6161.6	5787.8	5760.8	6119.8	6125.7	6187.1
37.5°	8215.0	8162.7	7942.8	7566.0	7163.7	6647.7	6397.9	6655.2	6662.6	6722.5
40°	8922.4	8944.8	8793.8	8502.2	8156.7	7592.9	7112.8	7225.0	7180.1	7280.3
42.5°	9529.6	9574.5	9442.9	9296.3	9095.9	8599.4	7998.2	7978.7	7906.9	7960.8
45°	10054.5	10091.9	9973.8	9939.4	9934.9	9586.4	8965.8	8849.1	8748.9	8738.5
47.5°	10247.5	10319.3	10370.1	10485.3	10709.6	10563.0	9966.3	9785.3	9673.2	9590.9
50°	10320.7	10397.0	10570.5	10905.5	11436.4	11499.2	10962.3	10758.9	10621.4	10471.8
52.5°	10222.0	10358.1	10591.4	11155.3	11925.5	12250.0	11918.0	11740.0	11583.0	11339.2
55°	9640.3	9776.4	10253.4	11152.3	12169.2	12776.4	12821.3	12742.0	12565.6	12181.2
57.5°	8413.9	8615.8	9371.1	10772.4	12164.8	13229.6	13706.7	13763.5	13566.1	13015.7
60°	6715.0	6988.7	7909.9	9930.4	11789.4	13474.8	14482.8	14767.0	14557.6	13838.3
62.5°	4685.5	5002.6	5874.5	8611.3	10930.9	13298.4	15049.7	15574.6	15416.1	14574.1
65°	2858.0	2959.7	3662.6	6776.3	9471.3	12559.6	15224.6	16011.3	15958.9	15024.2
67.5°	1903.8	1989.1	2191.0	4646.7	7352.1	11083.5	14805.9	15935.0	15950.0	14951.0
70°	1147.1	1220.4	1352.0	2702.4	4764.8	8772.9	13509.2	14962.9	15049.7	13971.4
72.5°	472.6	521.9	641.6	1224.9	2467.6	5567.9	10757.4	12846.7	13048.6	11747.5
75°	267.7	293.1	376.9	614.7	1070.8	2594.8	6516.1	9119.8	9417.4	8096.9
77.5°	178.0	189.9	243.8	397.8	602.7	885.4	2784.7	4751.3	5319.6	4422.3
80°	119.6	130.1	167.5	266.2	391.8	379.9	886.9	1760.3	2165.5	1519.5
82.5°	80.8	82.3	119.6	175.0	248.3	184.0	261.7	547.4	688.0	439.7
85°	46.4	44.9	88.2	101.7	110.7	76.3	79.3	164.5	215.4	185.4
87.5°	6.0	9.0	34.4	26.9	15.0	16.5	16.5	28.4	41.9	44.9
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°
2594.8	0°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2597.8	2.5°	2597.8	2596.3	2591.8	2587.3	2576.8	2570.8	2573.8	2570.8	2569.3	2570.8
2617.2	5°	2617.2	2612.7	2600.8	2585.8	2564.9	2539.4	2523.0	2499.1	2476.6	2463.2
2669.5	7.5°	2669.5	2665.1	2648.6	2606.7	2539.4	2433.2	2336.0	2250.8	2186.5	2149.1
2753.3	10°	2753.3	2745.8	2720.4	2627.7	2451.2	2219.4	2026.5	1866.4	1761.8	1712.4
2852.0	12.5°	2852.0	2843.0	2798.2	2608.2	2283.7	1921.8	1655.6	1477.6	1380.4	1337.0
2965.7	15°	2968.7	2956.7	2868.5	2515.5	2039.9	1592.8	1349.0	1215.9	1153.1	1114.2
3110.7	17.5°	3113.7	3092.8	2920.8	2376.4	1775.2	1341.5	1160.5	1060.3	1005.0	967.6
3300.7	20°	3302.2	3267.8	2962.7	2210.4	1531.4	1183.0	1033.4	949.7	907.8	874.9
3569.9	22.5°	3565.4	3516.0	3013.5	2030.9	1359.4	1073.8	939.2	877.9	843.5	806.1
3945.2	25°	3891.4	3833.1	3076.3	1864.9	1241.3	979.6	870.4	819.6	779.2	735.8
4437.3	27.5°	4347.5	4242.9	3151.1	1728.8	1139.6	898.8	807.6	750.8	704.4	668.5
4995.1	30°	4856.0	4684.0	3216.9	1646.6	1046.9	824.0	725.3	668.5	625.1	599.7
5496.1	32.5°	5337.6	5104.3	3260.3	1610.7	963.1	738.8	635.6	574.3	541.4	533.9
5986.7	35°	5792.2	5484.2	3255.8	1576.3	888.4	653.6	547.4	484.6	459.1	463.6
6514.6	37.5°	6315.7	5889.5	3224.4	1522.5	827.0	575.8	471.1	415.8	393.3	394.8
7156.2	40°	6924.4	6357.6	3205.0	1420.8	759.7	504.0	408.3	363.4	347.0	341.0
7832.2	42.5°	7573.4	6810.7	3207.9	1305.6	676.0	439.7	364.9	327.5	312.6	308.1
8584.4	45°	8225.5	7242.9	3212.4	1186.0	587.7	390.3	333.5	302.1	293.1	287.1
9347.1	47.5°	8838.7	7610.8	3128.7	1057.3	501.0	352.9	308.1	287.1	279.7	272.2
10112.9	50°	9410.0	7856.1	2926.8	907.8	432.2	323.0	288.6	273.7	266.2	258.7
10806.8	52.5°	9854.1	7895.0	2593.3	753.8	384.4	300.6	276.7	263.2	254.2	246.8
11367.6	55°	10051.5	7651.2	2119.2	610.2	347.0	281.2	264.7	251.3	240.8	233.3
11808.8	57.5°	10000.7	7138.2	1652.6	490.5	311.1	261.7	249.8	240.8	228.8	216.9
12166.2	60°	9750.9	6451.8	1245.8	408.3	278.2	240.8	233.3	225.8	209.4	191.4
12303.8	62.5°	9318.7	5588.8	888.4	338.0	242.3	216.9	213.9	207.9	184.0	151.0
12100.4	65°	8657.7	4540.5	598.2	281.2	207.9	189.9	191.4	181.0	149.6	112.2
11355.7	67.5°	7691.6	3320.1	382.9	230.3	173.5	158.5	160.0	154.0	127.1	95.7
9943.9	70°	6460.7	2198.4	249.8	175.0	139.1	122.6	131.6	133.1	107.7	77.8
7631.8	72.5°	4736.4	1298.1	175.0	130.1	101.7	85.2	107.7	110.7	86.7	58.3
4591.3	75°	2699.5	616.2	131.6	94.2	62.8	59.8	83.8	83.8	59.8	38.9
1987.6	77.5°	1133.6	257.2	92.7	61.3	35.9	34.4	56.8	52.3	29.9	17.9
484.6	80°	327.5	115.2	49.4	29.9	15.0	13.5	22.4	16.5	7.5	3.0
184.0	82.5°	128.6	50.8	19.4	12.0	6.0	6.0	3.0	0.0	0.0	0.0
104.7	85°	76.3	20.9	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
22.4	87.5°	19.4	4.5	3.0	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°
2594.8
2576.8
2466.2
2150.6
1707.9
1332.5
1115.7
964.6
868.9
800.1
731.3
661.0
595.2
538.4
463.6
400.8
339.5
306.6
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272.2
258.7
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