

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: P941678

Luminaire Tested: **GALN-SB5B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

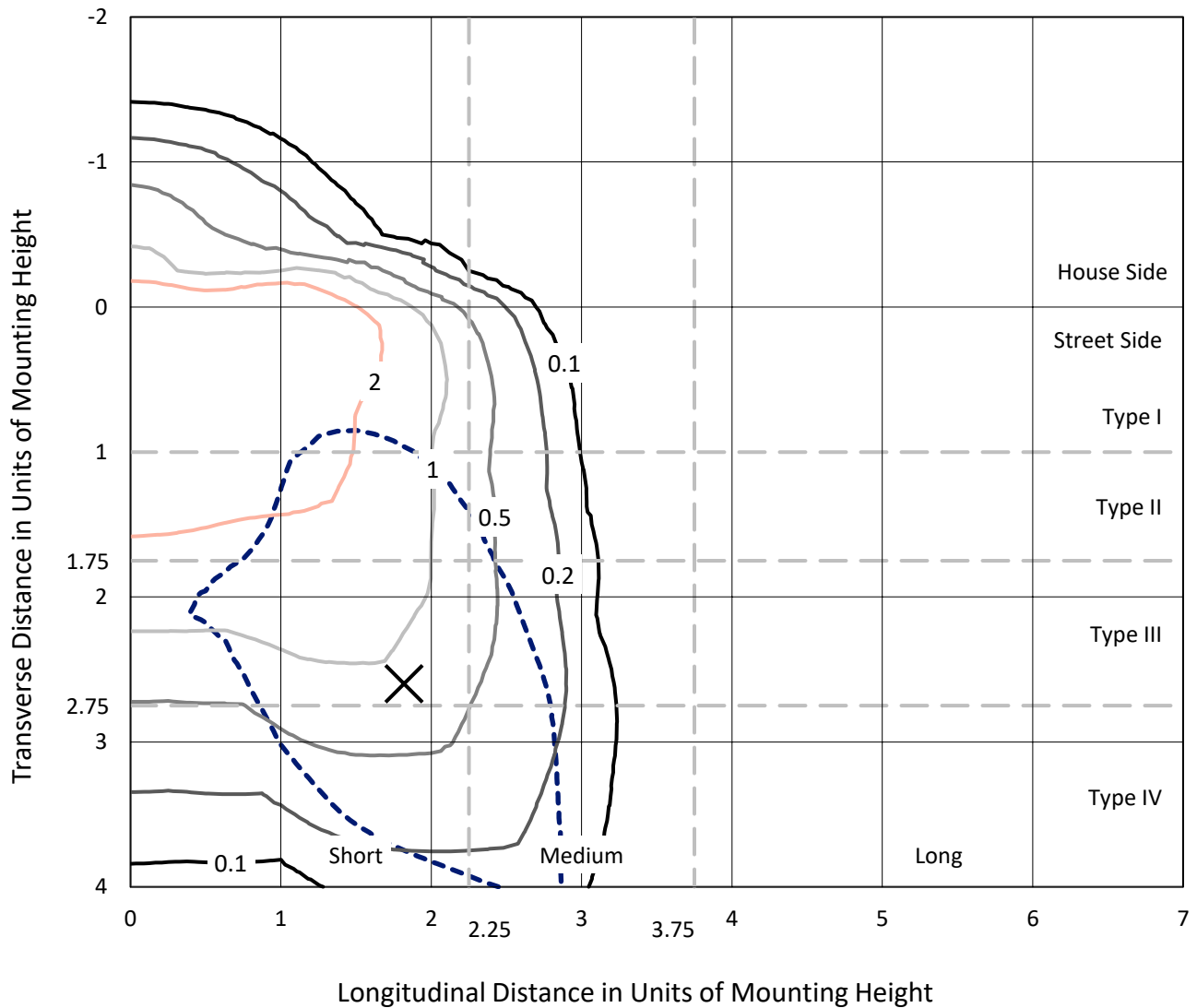
Lumens per Lamp: N/A  
Luminaire Lumens: 18728 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

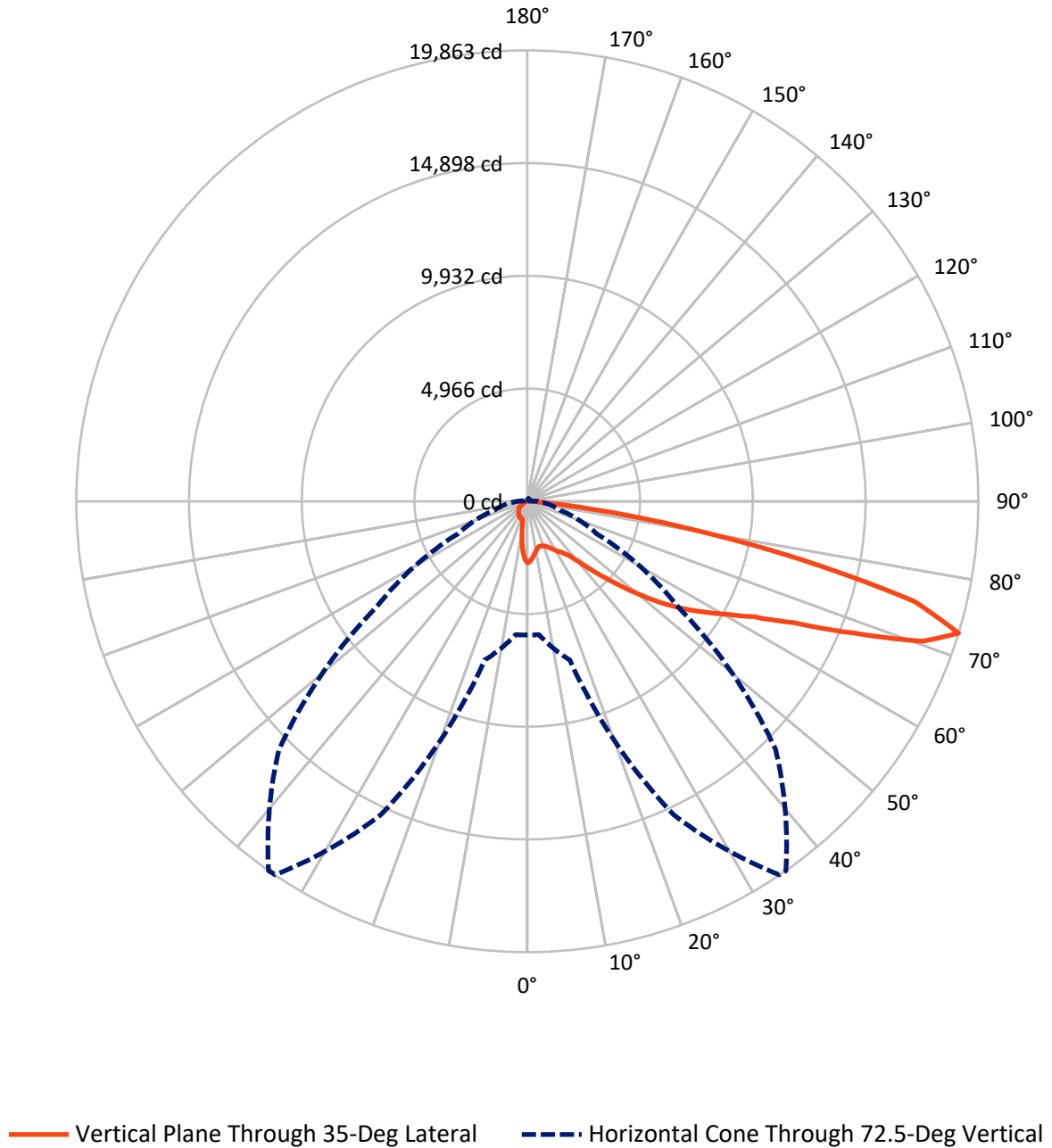
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2107.7	0.0	2107.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16620.3	0.0	16620.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18728.0	0.0	18728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.0	1.2
10°-20°	521.8	2.8
20°-30°	847.6	4.5
30°-40°	1414.3	7.6
40°-50°	2675.8	14.3
50°-60°	4251.9	22.7
60°-70°	5259.8	28.1
70°-80°	3269.6	17.5
80°-90°	264.2	1.4
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°	18728.0	100.0
0°-180°	18728.0	100.0

**Coefficient of Utilization**



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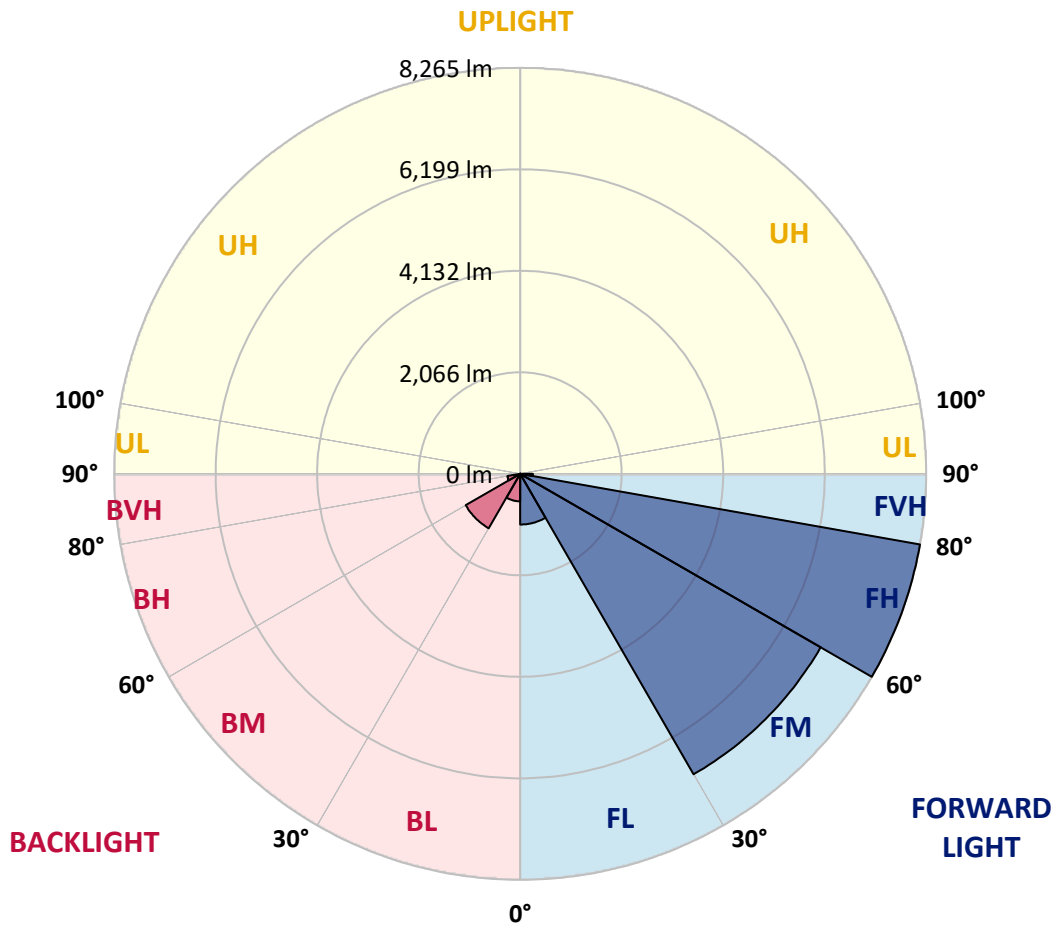
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.4	5.5			
FM (30°-60°)	7062.3	37.7			
FH (60°-80°)	8264.9	44.1			G4/12000
FVH (80°-90°)	260.6	1.4			G3/500
BL (0°-30°)	560.1	3.0	B2/1000		
BM (30°-60°)	1279.6	6.8	B2/2500		
BH (60°-80°)	264.5	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3
2.5°	2593.6	2615.5	2619.6	2626.5	2626.5	2634.7	2648.4	2667.7	2699.2	2715.7
5°	2390.5	2406.9	2427.5	2444.0	2475.5	2479.7	2533.2	2585.3	2658.1	2712.9
7.5°	2186.0	2205.2	2232.7	2272.4	2313.6	2326.0	2406.9	2494.8	2610.0	2712.9
10°	2041.9	2043.3	2068.0	2107.8	2173.6	2188.7	2287.5	2412.4	2556.5	2696.5
12.5°	1960.9	1970.6	1981.5	2011.7	2074.8	2084.5	2190.1	2336.9	2503.0	2686.9
15°	1960.9	1967.8	1974.7	1989.8	2040.5	2048.8	2142.1	2288.9	2475.5	2691.0
17.5°	1981.5	1992.5	1987.0	2004.9	2058.4	2063.9	2146.2	2275.2	2474.2	2717.1
20°	2030.9	2039.2	2028.2	2039.2	2092.7	2103.7	2188.7	2301.3	2497.5	2762.3
22.5°	2109.2	2113.3	2087.2	2095.4	2150.3	2164.0	2262.8	2375.4	2553.8	2835.1
25°	2208.0	2216.2	2176.4	2186.0	2238.1	2254.6	2368.5	2486.5	2643.0	2935.2
27.5°	2321.9	2326.0	2291.7	2290.3	2357.5	2380.9	2496.1	2623.7	2762.3	3061.5
30°	2452.2	2464.6	2431.6	2426.1	2511.2	2530.4	2644.3	2792.5	2938.0	3250.9
32.5°	2555.1	2564.7	2545.5	2559.3	2645.7	2660.8	2824.1	3031.3	3213.8	3519.8
35°	2703.3	2708.8	2664.9	2689.6	2788.4	2826.8	3069.7	3366.1	3561.0	3857.4
37.5°	3239.9	3239.9	3053.3	2931.1	3025.8	3060.1	3405.9	3787.4	3989.1	4310.2
40°	3982.3	3969.9	3696.8	3447.1	3434.7	3502.0	3884.8	4318.5	4542.2	4853.7
42.5°	4774.1	4754.9	4383.0	4136.0	4094.8	4118.1	4437.9	4973.0	5200.8	5516.5
45°	5476.7	5471.2	5130.9	4798.8	4724.7	4798.8	5128.1	5738.8	5902.1	6234.1
47.5°	6065.4	6065.4	5817.0	5600.2	5561.7	5605.7	6062.6	6588.2	6573.1	6998.5
50°	6743.2	6737.8	6501.7	6408.4	6448.2	6510.0	7138.5	7482.9	7267.4	7749.1
52.5°	7218.0	7251.0	7170.0	7154.9	7358.0	7465.1	8230.8	8358.4	7889.1	8461.3
55°	7594.0	7632.5	7725.8	7831.4	8222.5	8362.5	9288.8	9188.6	8409.2	9078.8
57.5°	8126.5	8071.6	8215.7	8424.3	9056.9	9225.7	10313.8	9972.2	8827.7	9579.7
60°	8772.8	8781.0	8805.7	9069.2	9889.8	10106.6	11323.8	10713.2	9096.7	9887.1
62.5°	9549.5	9561.9	9612.6	10017.4	11008.2	11212.7	12399.7	11319.7	9220.2	9800.6
65°	9496.0	9548.1	10114.9	11499.5	12708.4	12910.1	13655.3	11745.1	9033.5	9010.2
67.5°	8650.7	8735.8	9684.0	13269.7	15271.8	15496.8	15173.0	11828.8	8228.0	7006.7
70°	7541.9	7572.1	8712.4	14861.5	18240.0	18467.8	16531.5	10908.0	6243.7	3908.2
72.5°	5889.7	5896.6	7234.5	15230.6	19851.0	19863.4	15465.3	8097.7	3357.9	1501.2
75°	4207.3	4166.2	4845.4	12351.6	17464.7	17604.6	11594.2	3798.4	1283.1	709.5
77.5°	2256.0	2301.3	2741.8	7325.1	12064.8	12303.6	6326.1	1095.1	653.2	483.0
80°	697.1	735.5	1123.9	3353.8	6833.8	6977.9	2345.2	487.1	455.6	344.4
82.5°	219.6	227.8	524.2	1409.3	2836.4	2902.3	679.3	275.8	311.5	227.8
85°	63.1	64.5	233.3	525.6	701.2	714.9	190.7	107.0	178.4	141.3
87.5°	6.9	22.0	87.8	87.8	61.8	60.4	20.6	23.3	50.8	17.8
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°
2714.3	0°	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3	2714.3
2726.7	2.5°	2719.8	2721.2	2703.3	2673.1	2640.2	2612.8	2578.5	2551.0	2531.8	2526.3
2751.4	5°	2739.0	2729.4	2678.6	2586.7	2476.9	2382.2	2276.6	2192.9	2138.0	2114.6
2777.4	7.5°	2767.8	2740.4	2629.2	2448.1	2238.1	2051.5	1862.1	1715.3	1622.0	1575.3
2802.1	10°	2792.5	2737.6	2546.9	2247.7	1926.6	1644.0	1388.7	1211.7	1112.9	1066.2
2831.0	12.5°	2815.9	2736.3	2439.9	2010.3	1575.3	1229.5	992.1	904.3	876.9	867.3
2877.6	15°	2859.8	2740.4	2305.4	1738.6	1225.4	929.0	842.6	841.2	846.7	843.9
2949.0	17.5°	2920.2	2744.5	2153.1	1450.5	945.5	819.2	815.1	827.5	835.7	831.6
3038.2	20°	2998.4	2761.0	1991.1	1165.0	812.4	791.8	801.4	812.4	819.2	812.4
3157.6	22.5°	3108.2	2789.8	1814.1	935.9	769.8	775.3	783.6	795.9	802.8	793.2
3309.9	25°	3242.6	2835.1	1639.8	813.7	749.2	756.1	768.5	782.2	790.4	780.8
3502.0	27.5°	3416.9	2907.8	1479.3	786.3	728.7	732.8	750.6	771.2	782.2	769.8
3775.1	30°	3669.4	3027.2	1340.7	798.7	716.3	706.7	731.4	760.2	772.6	761.6
4146.9	32.5°	4004.2	3196.0	1255.6	817.9	710.8	676.5	699.8	736.9	757.5	750.6
4632.7	35°	4443.4	3452.6	1222.7	839.8	706.7	645.0	661.4	701.2	736.9	743.8
5244.7	37.5°	4975.8	3809.4	1232.3	849.4	694.4	618.9	627.1	661.4	708.1	730.0
5933.6	40°	5581.0	4225.2	1287.2	839.8	680.6	596.9	598.3	624.4	665.5	698.5
6674.6	42.5°	6205.3	4710.9	1388.7	804.1	668.3	577.7	573.6	591.4	618.9	642.2
7414.3	45°	6799.5	5210.4	1488.9	754.7	653.2	558.5	548.9	555.8	561.3	570.9
8134.7	47.5°	7318.2	5561.7	1460.1	709.5	632.6	536.6	520.1	517.3	500.9	499.5
8778.3	50°	7676.4	5638.6	1296.8	664.2	602.4	511.9	485.8	469.3	440.5	426.8
9260.0	52.5°	7790.3	5335.3	1059.4	618.9	553.0	478.9	441.9	415.8	380.1	367.8
9537.2	55°	7639.3	4741.1	846.7	564.0	484.4	435.0	393.8	359.5	330.7	315.6
9567.3	57.5°	7270.2	3985.0	669.7	499.5	411.7	385.6	344.4	310.1	285.4	270.3
9232.5	60°	6658.2	3164.4	529.7	422.7	351.3	332.1	289.5	267.6	245.6	227.8
8368.0	62.5°	5729.2	2258.7	415.8	334.8	293.7	271.7	247.0	230.5	204.5	179.8
6813.2	65°	4470.8	1381.9	321.1	245.6	236.0	225.0	210.0	194.9	163.3	138.6
4444.7	67.5°	2820.0	654.6	229.2	185.3	186.6	181.1	174.3	161.9	138.6	116.6
1991.1	70°	1241.9	317.0	150.9	141.3	138.6	138.6	144.1	140.0	118.0	97.4
691.6	72.5°	422.7	170.2	112.5	107.0	100.2	98.8	120.8	116.6	94.7	75.5
344.4	75°	220.9	113.9	82.3	76.8	60.4	72.7	96.1	90.6	67.2	49.4
227.8	77.5°	144.1	81.0	56.3	49.4	34.3	48.0	71.4	63.1	39.8	24.7
149.6	80°	90.6	53.5	32.9	23.3	16.5	26.1	38.4	27.4	15.1	5.5
87.8	82.5°	48.0	27.4	12.4	8.2	6.9	8.2	9.6	6.9	2.7	0.0
45.3	85°	19.2	9.6	4.1	2.7	1.4	0.0	2.7	1.4	0.0	0.0
8.2	87.5°	6.9	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>
2714.3
2535.9
2122.9
1582.2
1067.6
864.5
842.6
830.2
811.0
791.8
779.4
769.8
760.2
750.6
743.8
735.5
709.5
651.8
576.3
498.1
428.1
366.4
315.6
267.6
223.7
175.6
134.5
113.9
93.3
71.4
45.3
22.0
4.1
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