

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: P942954

Luminaire Tested: **GALN-SB7A-950-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-950-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

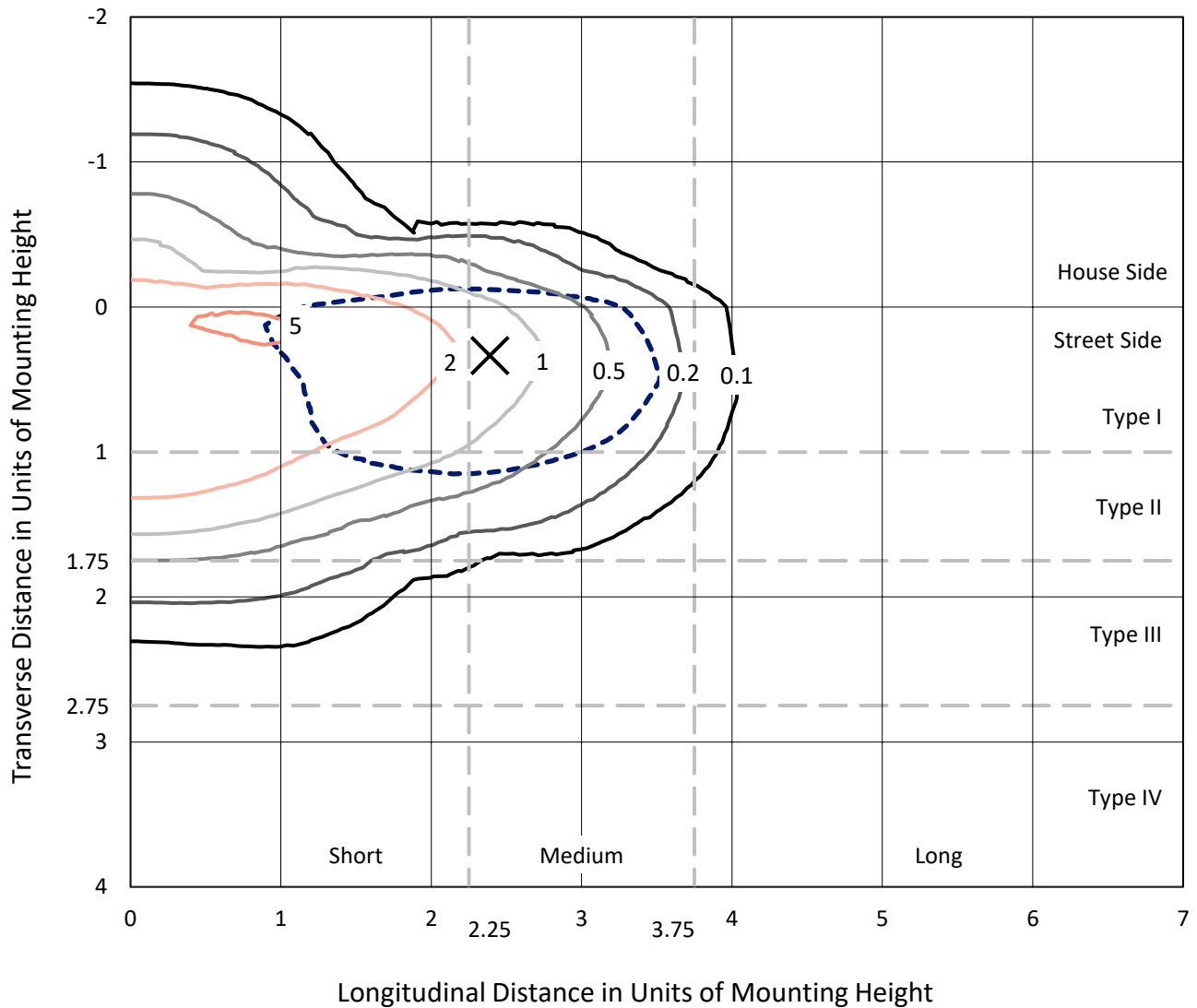
Lumens per Lamp: N/A  
Luminaire Lumens: 16205 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

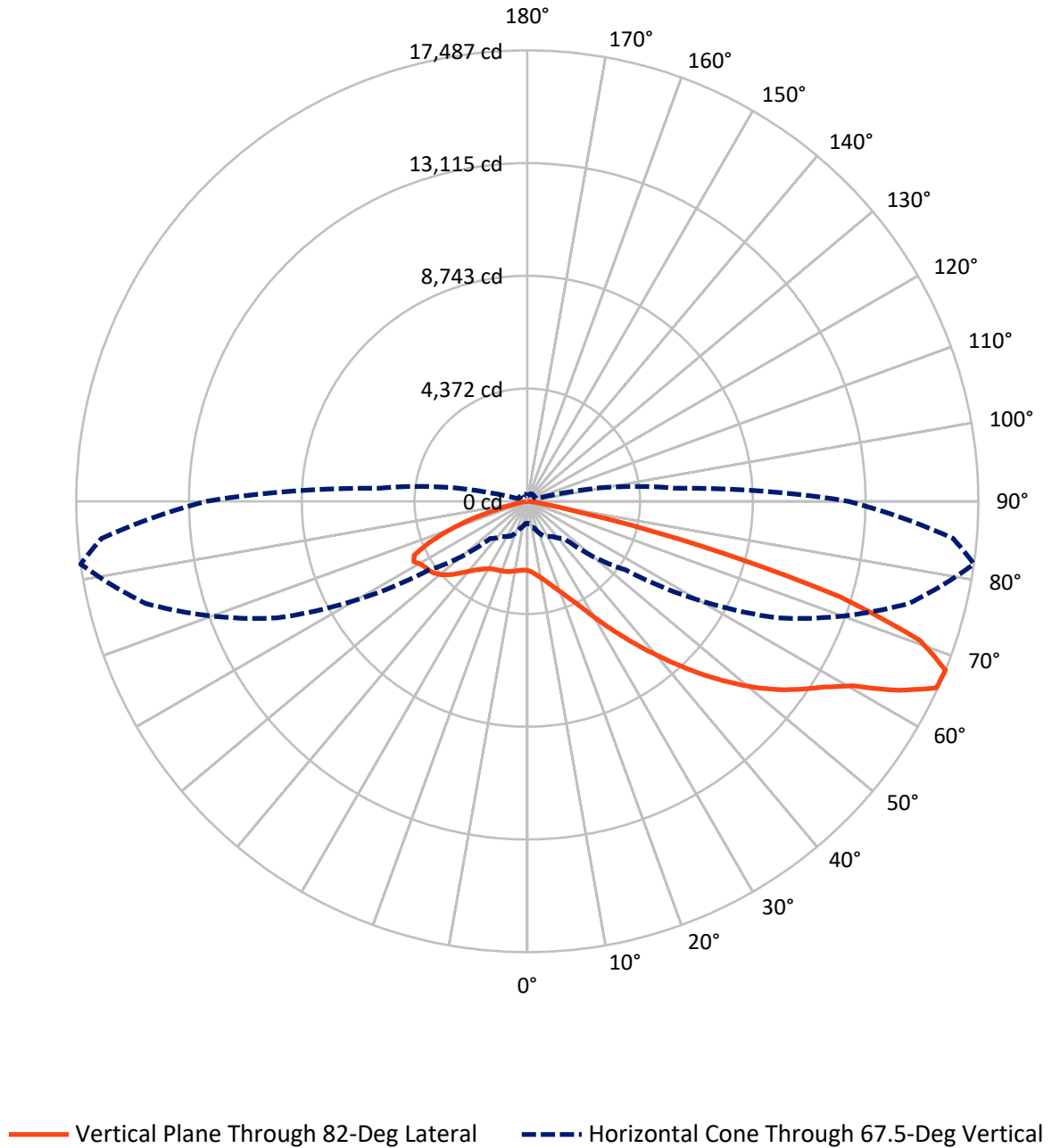
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2935.4	0.0	2935.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13269.6	0.0	13269.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16205.0	0.0	16205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.2	1.5
10°-20°	621.5	3.8
20°-30°	995.5	6.1
30°-40°	1760.3	10.9
40°-50°	3084.3	19.0
50°-60°	4113.6	25.4
60°-70°	3829.5	23.6
70°-80°	1469.8	9.1
80°-90°	91.3	0.6
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°	16205.0	100.0
0°-180°	16205.0	100.0

**Coefficient of Utilization**



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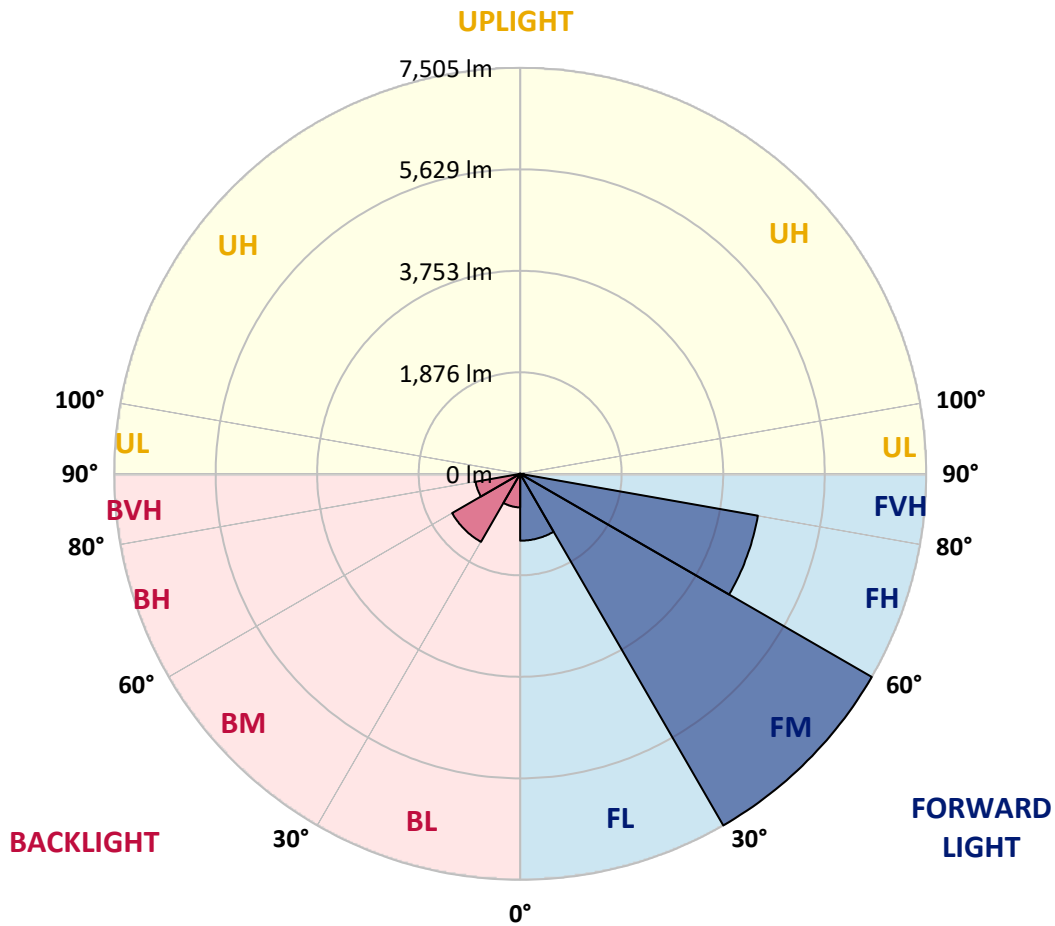
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.3	7.6			
FM (30°-60°)	7505.5	46.3			
FH (60°-80°)	4461.5	27.5			G2/5000
FVH (80°-90°)	66.4	0.4			G1/100
BL (0°-30°)	619.9	3.8	B2/1000		
BM (30°-60°)	1452.7	9.0	B2/2500		
BH (60°-80°)	837.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6
2.5°	2837.5	2853.8	2844.5	2839.8	2831.6	2820.0	2810.6	2781.5	2751.1	2731.3
5°	2894.6	2911.0	2909.8	2914.5	2920.3	2923.8	2921.5	2888.8	2845.6	2811.8
7.5°	2845.6	2864.3	2879.5	2902.8	2943.6	2986.8	3007.8	3000.8	2956.5	2909.8
10°	2706.8	2726.6	2762.8	2817.6	2904.0	2997.3	3075.5	3111.6	3083.6	3032.3
12.5°	2452.4	2472.3	2543.4	2662.5	2807.1	2969.3	3118.6	3215.5	3222.5	3171.1
15°	2166.6	2186.4	2262.3	2411.6	2632.1	2892.3	3142.0	3325.1	3387.0	3342.6
17.5°	1989.3	2006.8	2063.9	2184.1	2413.9	2738.3	3133.8	3441.8	3583.0	3548.0
20°	1935.6	1950.8	1977.6	2061.6	2252.9	2578.4	3080.1	3551.5	3794.2	3774.3
22.5°	1992.8	2006.8	2014.9	2052.3	2172.4	2473.4	3012.5	3663.5	4039.2	4041.5
25°	2124.6	2138.6	2129.3	2152.6	2205.1	2440.8	2986.8	3795.3	4347.2	4372.9
27.5°	2341.6	2342.8	2320.6	2319.4	2327.6	2489.8	3013.6	3936.5	4735.7	4783.5
30°	2776.8	2759.3	2674.1	2581.9	2539.9	2636.8	3088.3	4103.4	5194.2	5279.4
32.5°	3447.7	3422.0	3265.6	3045.1	2823.5	2873.6	3222.5	4293.5	5693.6	5847.6
35°	4175.7	4168.7	4005.3	3677.5	3290.1	3210.8	3440.7	4543.2	6238.4	6483.5
37.5°	4852.4	4848.9	4755.5	4369.4	3898.0	3681.0	3790.7	4869.9	6821.8	7176.5
40°	5470.7	5481.2	5387.9	5042.6	4567.7	4284.2	4266.7	5273.6	7470.5	7931.4
42.5°	6005.1	6016.8	5922.3	5666.8	5229.2	4951.6	4851.2	5768.3	8104.0	8742.2
45°	6368.0	6440.3	6426.3	6222.1	5908.3	5620.1	5553.6	6389.0	8826.2	9602.1
47.5°	6470.6	6537.1	6642.1	6670.1	6478.8	6195.3	6274.6	7136.8	9556.6	10463.1
50°	6217.4	6279.3	6497.5	6788.0	6921.0	6833.5	6975.8	7938.4	10304.5	11321.8
52.5°	5718.1	5781.1	6056.4	6516.1	7058.6	7334.0	7679.3	8728.2	11029.0	12135.0
55°	4995.9	5062.4	5415.9	5936.3	6796.1	7540.5	8266.2	9516.9	11692.9	12866.6
57.5°	4013.5	4062.5	4430.0	5158.1	6135.8	7335.2	8699.1	10378.0	12318.2	13585.3
60°	2615.8	2659.0	3086.0	3898.0	5041.4	6649.1	8785.4	11338.2	13148.9	14519.8
62.5°	1739.6	1768.7	2021.9	2618.1	3550.3	5331.9	8280.2	12104.7	14367.0	16146.2
65°	1193.6	1222.7	1475.9	1891.3	2293.8	3527.0	6827.6	12003.2	15470.7	17437.8
67.5°	851.7	876.2	1090.9	1482.9	1660.2	2048.8	4628.4	10705.8	15312.0	17486.8
70°	610.2	624.2	801.5	1155.1	1319.6	1230.9	2573.8	8188.0	13406.8	16147.4
72.5°	427.0	431.7	556.5	879.7	1062.9	898.4	1225.1	5459.1	10140.0	12674.1
75°	289.3	295.2	374.5	645.2	852.9	686.0	648.7	2927.3	5952.6	7015.5
77.5°	177.3	179.7	241.5	441.0	638.2	522.7	417.7	1240.2	2303.1	2261.1
80°	100.3	100.3	154.0	274.2	435.2	337.2	292.8	527.4	729.2	640.5
82.5°	56.0	57.2	112.0	170.3	288.2	199.5	161.0	243.8	315.0	278.8
85°	23.3	25.7	68.8	80.5	137.7	99.2	65.3	102.7	116.7	103.8
87.5°	2.3	3.5	21.0	15.2	16.3	19.8	9.3	19.8	16.3	16.3
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°
2684.6	0°	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6	2684.6
2724.3	2.5°	2702.1	2684.6	2640.3	2588.9	2521.3	2488.6	2444.3	2413.9	2388.3	2390.6
2792.0	5°	2754.6	2710.3	2611.1	2487.4	2333.4	2223.8	2107.1	2026.6	1961.3	1947.3
2885.3	7.5°	2827.0	2757.0	2583.1	2360.3	2100.1	1902.9	1726.7	1613.6	1533.1	1507.4
2998.5	10°	2920.3	2818.8	2546.9	2200.4	1825.9	1575.1	1386.1	1297.4	1242.6	1223.9
3131.5	12.5°	3028.8	2890.0	2499.1	2005.6	1543.6	1302.1	1181.9	1137.6	1120.1	1114.2
3294.8	15°	3165.3	2978.6	2426.8	1774.6	1304.4	1135.2	1083.9	1078.0	1080.4	1078.0
3490.8	17.5°	3327.5	3075.5	2308.9	1536.6	1143.4	1050.0	1031.4	1036.0	1041.9	1040.7
3710.2	20°	3504.8	3171.1	2158.4	1325.4	1033.7	989.4	978.9	983.5	988.2	985.9
3963.3	22.5°	3706.7	3273.8	1991.6	1160.9	960.2	933.4	921.7	922.9	922.9	918.2
4284.2	25°	3948.2	3387.0	1816.6	1044.2	904.2	883.2	869.2	864.5	857.5	843.5
4673.9	27.5°	4236.4	3507.2	1648.6	962.5	859.9	840.0	823.7	812.0	794.5	771.2
5141.7	30°	4560.7	3653.0	1506.2	911.2	824.9	805.0	786.4	768.9	743.2	714.0
5679.6	32.5°	4942.2	3809.3	1402.4	877.4	793.4	772.4	750.2	729.2	701.2	672.0
6283.9	35°	5397.2	3998.3	1341.7	854.0	768.9	740.9	716.4	693.0	672.0	646.4
6940.8	37.5°	5890.8	4199.0	1323.1	842.4	752.5	709.4	681.4	665.0	662.7	647.5
7651.3	40°	6431.0	4437.0	1337.1	835.4	735.0	679.0	648.7	645.2	651.0	624.2
8410.9	42.5°	7002.6	4719.4	1360.4	827.2	710.5	648.7	619.5	619.5	614.9	577.5
9213.6	45°	7621.0	5044.9	1383.7	807.4	681.4	618.4	596.2	588.0	568.2	532.0
10020.9	47.5°	8244.0	5376.2	1401.2	771.2	646.4	592.7	572.9	554.2	525.0	492.4
10813.2	50°	8835.6	5673.8	1382.6	717.5	606.7	568.2	547.2	521.5	490.0	467.9
11563.4	52.5°	9364.1	5931.6	1303.2	654.5	564.7	542.5	523.9	497.0	471.4	448.0
12240.0	55°	9823.8	6140.4	1163.2	595.0	527.4	520.4	501.7	467.9	432.9	413.0
12910.9	57.5°	10264.8	6299.1	988.2	546.0	493.5	495.9	467.9	437.5	404.9	383.9
13815.1	60°	10851.7	6511.5	810.9	500.5	457.4	464.4	434.0	411.9	371.0	344.2
15365.7	62.5°	11789.7	6841.6	644.0	444.5	415.4	417.7	404.9	378.0	329.0	297.5
16514.9	65°	12534.1	6720.3	507.5	383.9	367.5	371.0	371.0	341.8	289.3	253.2
16576.7	67.5°	12450.1	5754.3	404.9	324.3	322.0	324.3	332.5	308.0	256.7	227.5
15314.4	70°	11468.8	4577.0	324.3	269.5	280.0	274.2	297.5	281.2	231.0	201.8
11872.5	72.5°	9358.3	3297.1	247.3	222.8	214.7	224.0	268.3	253.2	192.5	159.8
6288.6	75°	5468.4	1759.4	184.3	176.2	155.2	186.7	238.0	215.8	147.0	117.8
1927.4	77.5°	1780.4	613.7	135.3	129.5	115.5	150.5	203.0	182.0	120.2	93.3
564.7	80°	477.2	185.5	92.2	85.2	74.7	112.0	161.0	144.7	86.3	60.7
242.7	82.5°	191.3	78.2	53.7	47.8	40.8	77.0	127.2	116.7	64.2	38.5
75.8	85°	61.8	25.7	19.8	15.2	18.7	47.8	75.8	79.3	45.5	19.8
11.7	87.5°	8.2	3.5	3.5	4.7	3.5	8.2	23.3	22.2	12.8	2.3
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>
2684.6
2367.3
1915.8
1481.7
1209.9
1110.7
1076.9
1038.4
984.7
915.9
841.2
768.9
711.7
673.2
644.0
646.4
625.4
577.5
530.9
491.2
464.4
445.7
410.7
381.5
340.7
295.2
249.7
222.8
198.3
156.3
114.3
89.8
59.5
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