

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: P951082

Luminaire Tested: **GALN-SB5B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951082  
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-SB5B-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

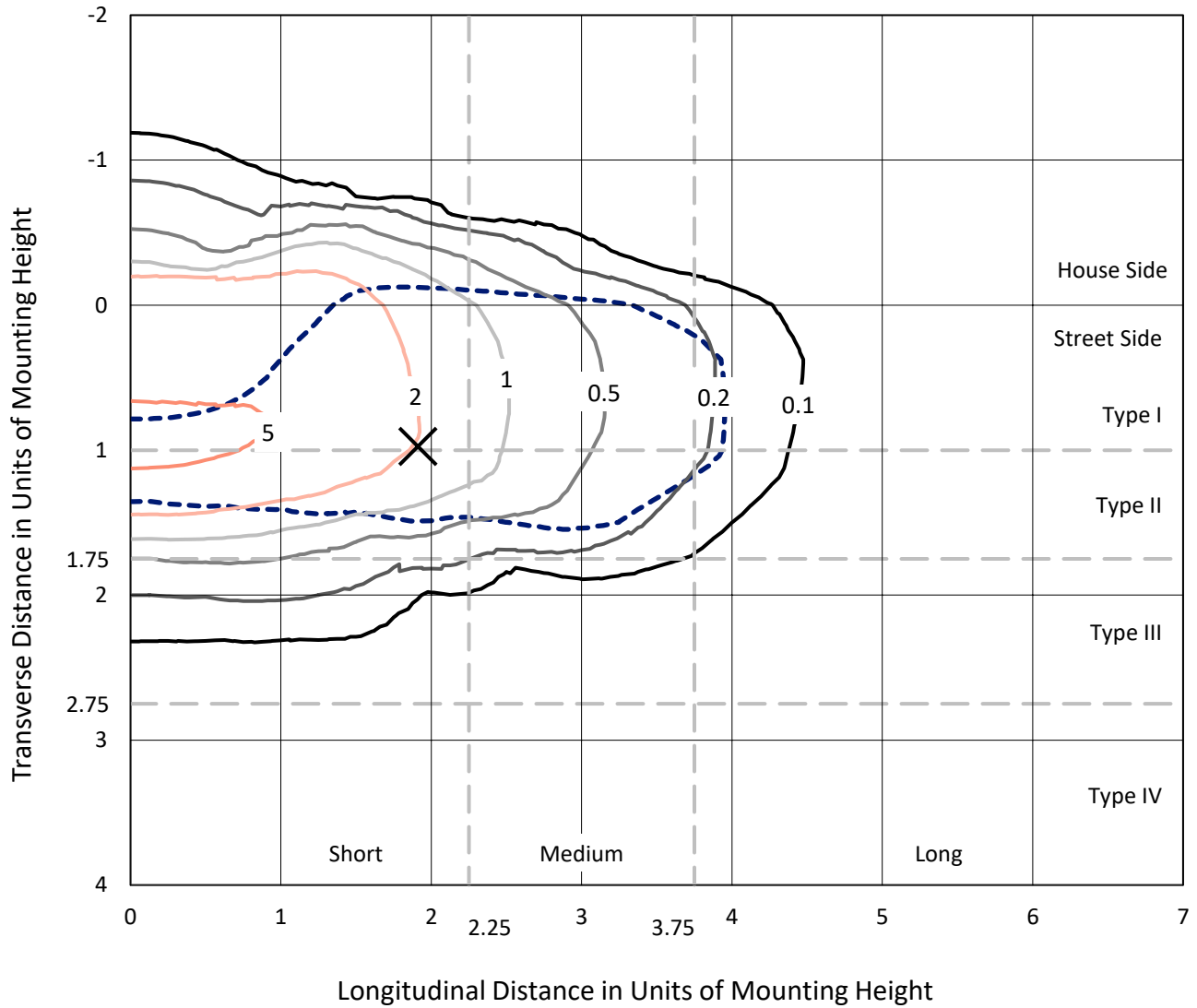
Lumens per Lamp: N/A  
Luminaire Lumens: 19533 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

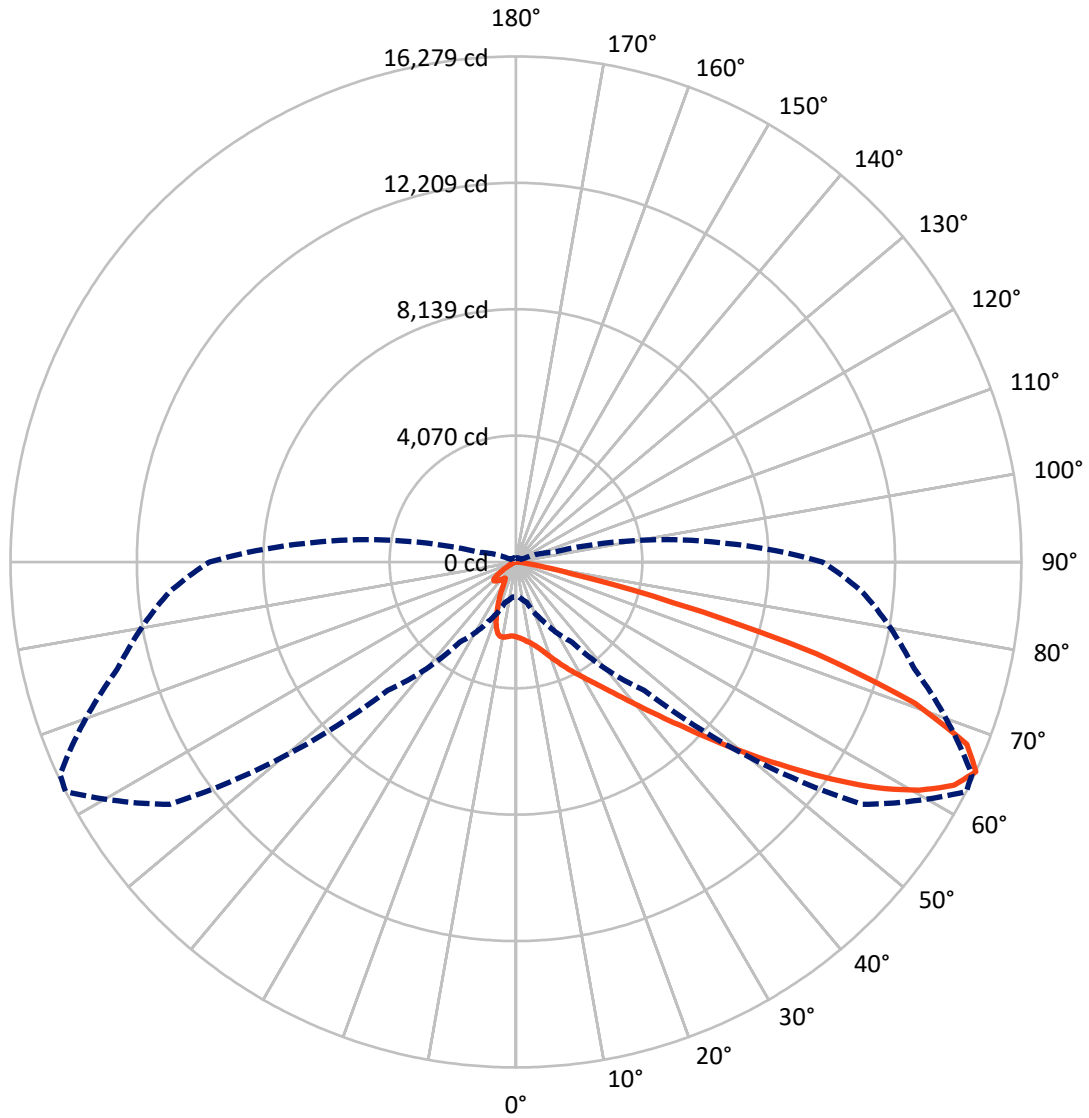
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2871.2	0.0	2871.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	16661.8	0.0	16661.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	19533.0	0.0	19533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.1	1.2
10°-20°	630.2	3.2
20°-30°	1097.4	5.6
30°-40°	1977.9	10.1
40°-50°	3922.8	20.1
50°-60°	5343.5	27.4
60°-70°	4265.2	21.8
70°-80°	1930.1	9.9
80°-90°	138.7	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°	19533.0	100.0
0°-180°	19533.0	100.0

**Coefficient of Utilization**



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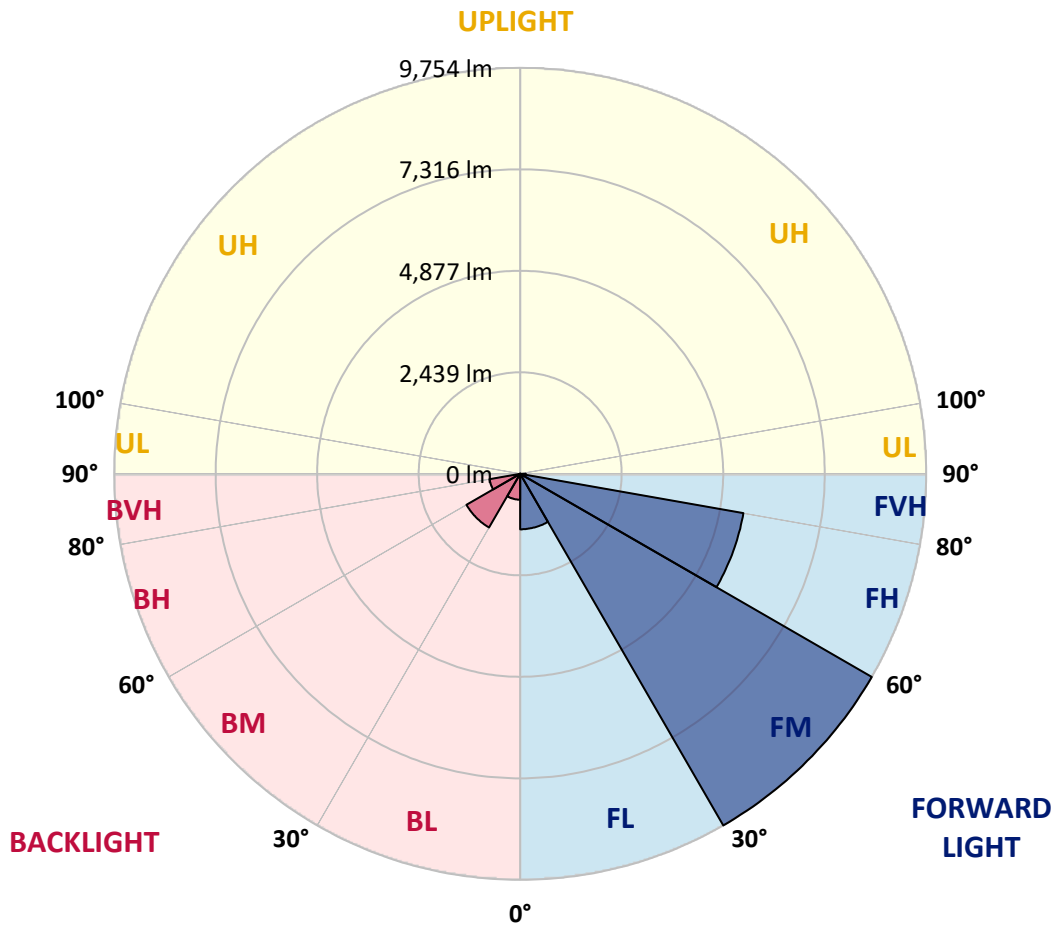
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.4	6.8			
FM (30°-60°)	9754.3	49.9			
FH (60°-80°)	5445.7	27.9			G3/7500
FVH (80°-90°)	128.4	0.7			G2/225
BL (0°-30°)	621.4	3.2	B2/1000		
BM (30°-60°)	1490.0	7.6	B2/2500		
BH (60°-80°)	749.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7
2.5°	2467.2	2460.5	2469.9	2465.8	2463.1	2457.8	2455.1	2452.4	2447.0	2443.0
5°	2473.9	2469.9	2479.3	2487.3	2495.4	2503.5	2507.5	2512.9	2507.5	2496.7
7.5°	2417.5	2414.8	2434.9	2459.1	2495.4	2526.3	2559.9	2578.7	2580.1	2576.0
10°	2413.4	2406.7	2426.9	2456.4	2503.5	2558.6	2617.7	2658.0	2663.4	2680.8
12.5°	2476.6	2469.9	2498.1	2530.3	2578.7	2636.5	2709.1	2765.5	2773.6	2797.7
15°	2582.7	2573.3	2605.6	2647.2	2709.1	2774.9	2851.5	2902.6	2909.3	2938.8
17.5°	2706.4	2697.0	2734.6	2778.9	2846.1	2936.2	3024.8	3081.3	3089.4	3108.2
20°	2864.9	2852.8	2882.4	2922.7	2993.9	3101.4	3207.6	3288.2	3286.9	3286.9
22.5°	3049.0	3030.2	3055.8	3088.0	3155.2	3285.5	3426.6	3522.0	3522.0	3484.4
25°	3246.6	3227.8	3256.0	3285.5	3344.7	3492.5	3657.8	3776.0	3781.4	3716.9
27.5°	3493.8	3469.6	3491.1	3526.1	3561.0	3711.5	3907.7	4044.8	4047.5	3948.0
30°	3969.5	3901.0	3833.8	3796.2	3812.3	3961.5	4171.1	4322.9	4336.4	4199.3
32.5°	4840.3	4826.9	4590.4	4281.3	4120.0	4230.2	4465.4	4648.1	4656.2	4480.2
35°	6193.5	6177.4	5797.1	5208.5	4683.1	4590.4	4822.8	5039.2	5033.8	4834.9
37.5°	7808.7	7793.9	7292.7	6505.2	5654.6	5134.6	5283.7	5510.8	5544.4	5283.7
40°	9188.8	9133.7	8816.5	8057.3	6944.7	6037.6	5939.5	6090.0	6124.9	5815.9
42.5°	10234.2	10187.2	10025.9	9551.6	8506.1	7373.3	6712.2	6770.0	6808.9	6438.0
45°	10775.8	10765.0	10829.5	10785.2	10097.2	9012.7	7816.8	7576.2	7591.0	7127.4
47.5°	10852.4	10847.0	11141.3	11557.9	11465.1	10861.8	9234.5	8581.4	8529.0	7905.5
50°	10400.9	10390.1	10954.5	11735.2	12378.9	12415.2	10844.3	9714.2	9598.6	8710.4
52.5°	8959.0	8956.3	9883.5	11182.9	12700.1	13775.1	12435.3	10958.5	10765.0	9562.3
55°	6893.6	6943.3	8006.2	9542.2	12114.2	14429.5	13863.8	12339.9	12043.0	10419.7
57.5°	4883.3	4955.9	6006.7	7374.7	10297.4	14042.5	14830.0	13724.0	13404.2	11274.3
60°	2623.1	2687.6	3739.7	5372.4	7660.9	12599.3	15339.2	14925.4	14623.0	12086.0
62.5°	1562.8	1584.3	2019.7	3468.3	5181.6	9625.5	15122.9	15840.5	15591.9	12767.3
65°	1122.1	1126.1	1345.1	2117.8	3145.8	5848.1	13605.8	16278.6	16202.0	13280.6
67.5°	944.7	942.0	1033.4	1406.9	2143.3	2929.4	10427.7	15659.1	15984.3	13605.8
70°	810.3	814.3	921.8	1030.7	1611.2	1658.2	5184.3	13634.0	14327.4	13691.8
72.5°	603.4	616.8	716.2	939.3	1216.1	1140.9	1789.9	10109.3	11363.0	12900.3
75°	426.0	432.7	503.9	790.1	907.1	830.5	913.8	5226.0	6833.1	9890.2
77.5°	327.9	340.0	381.6	552.3	893.6	583.2	559.0	1808.7	2778.9	5974.4
80°	177.4	198.9	275.5	399.1	627.5	412.5	276.8	720.3	942.0	2793.7
82.5°	91.4	102.1	192.2	287.6	357.4	360.1	137.1	299.7	388.4	862.7
85°	36.3	44.3	129.0	158.6	184.1	177.4	61.8	120.9	139.8	239.2
87.5°	8.1	13.4	47.0	36.3	34.9	37.6	14.8	28.2	26.9	28.2
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°
2410.7	0°	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7
2426.9	2.5°	2425.5	2420.1	2405.4	2389.2	2370.4	2359.7	2353.0	2351.6	2342.2	2335.5
2480.6	5°	2465.8	2460.5	2432.2	2398.6	2362.4	2334.1	2307.3	2283.1	2248.1	2241.4
2558.6	7.5°	2546.5	2531.7	2486.0	2440.3	2371.8	2289.8	2190.4	2076.1	1974.0	1943.1
2662.0	10°	2645.9	2625.7	2568.0	2487.3	2335.5	2112.4	1871.9	1648.8	1471.4	1421.7
2784.3	12.5°	2758.8	2741.3	2664.7	2515.6	2183.6	1779.2	1411.0	1134.2	962.1	919.1
2914.7	15°	2893.2	2867.6	2761.5	2472.6	1912.2	1351.8	968.9	804.9	743.1	735.0
3063.8	17.5°	3035.6	2993.9	2847.5	2318.0	1546.7	960.8	748.5	701.5	674.6	666.5
3214.3	20°	3165.9	3112.2	2898.5	2084.2	1155.7	748.5	670.5	639.6	615.5	606.0
3364.8	22.5°	3296.3	3219.7	2898.5	1765.7	866.7	663.8	615.5	587.2	559.0	546.9
3526.1	25°	3432.0	3329.9	2847.5	1411.0	697.4	608.7	563.0	532.1	507.9	493.2
3679.3	27.5°	3563.7	3422.6	2730.6	1075.0	620.8	560.4	514.7	485.1	462.3	451.5
3845.9	30°	3688.7	3514.0	2566.6	815.7	571.1	513.3	470.3	444.8	421.9	411.2
4062.2	32.5°	3858.0	3629.5	2391.9	669.2	528.1	469.0	430.0	405.8	385.7	377.6
4343.1	35°	4093.2	3800.2	2241.4	657.1	491.8	432.7	393.7	370.9	350.7	344.0
4705.9	37.5°	4426.4	4075.7	2162.1	737.7	462.3	400.4	364.2	340.0	321.2	315.8
5166.8	40°	4837.6	4449.3	2205.1	818.4	442.1	372.2	337.3	313.1	297.0	290.3
5696.3	42.5°	5325.4	4910.2	2443.0	880.2	428.7	348.0	311.8	284.9	274.1	271.4
6297.0	45°	5885.8	5416.8	2807.2	946.0	407.2	325.2	286.2	266.1	258.0	256.7
6950.0	47.5°	6522.7	5973.1	3229.1	1028.0	385.7	303.7	266.1	252.6	245.9	243.2
7631.3	50°	7154.3	6533.5	3663.1	1073.7	368.2	283.5	249.9	239.2	233.8	232.5
8351.6	52.5°	7815.4	7109.9	4013.9	1030.7	353.4	267.4	236.5	228.4	223.1	221.7
9015.4	55°	8445.7	7576.2	4074.3	874.8	323.9	251.3	221.7	217.7	211.0	211.0
9688.7	57.5°	8988.5	7810.0	3647.0	642.3	294.3	227.1	206.9	202.9	197.5	196.2
10296.0	60°	9487.1	7742.9	2815.2	432.7	262.0	202.9	188.1	185.4	180.1	173.3
10824.1	62.5°	9767.9	7447.2	1925.6	282.2	229.8	177.4	166.6	165.3	153.2	139.8
11215.2	65°	9874.1	6839.8	1201.3	205.6	192.2	151.8	143.8	141.1	123.6	108.8
11436.9	67.5°	9781.4	5840.1	606.0	162.6	151.8	126.3	118.3	118.3	106.2	92.7
11423.5	70°	9410.5	4378.0	255.3	130.3	116.9	96.8	96.8	102.1	90.0	75.3
10830.9	72.5°	8605.6	2945.6	135.7	99.4	87.3	68.5	79.3	83.3	71.2	56.4
8864.9	75°	6841.2	1796.6	94.1	73.9	55.1	48.4	60.5	63.2	48.4	37.6
6077.9	77.5°	4679.0	1032.0	63.2	47.0	34.9	28.2	41.7	39.0	25.5	17.5
2343.6	80°	2054.6	430.0	36.3	21.5	13.4	10.8	14.8	10.8	8.1	5.4
321.2	82.5°	240.5	100.8	13.4	8.1	5.4	2.7	1.3	0.0	0.0	0.0
98.1	85°	49.7	12.1	6.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	9.4	2.7	1.3	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>
2410.7
2342.2
2238.7
1928.3
1402.9
907.1
727.0
662.5
600.7
540.2
487.8
451.5
412.5
377.6
344.0
314.4
288.9
271.4
255.3
243.2
232.5
221.7
209.6
194.8
172.0
137.1
107.5
91.4
73.9
56.4
36.3
18.8
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