

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: P943586

Luminaire Tested: **GALN-SB8A-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943586  
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-SB8A-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

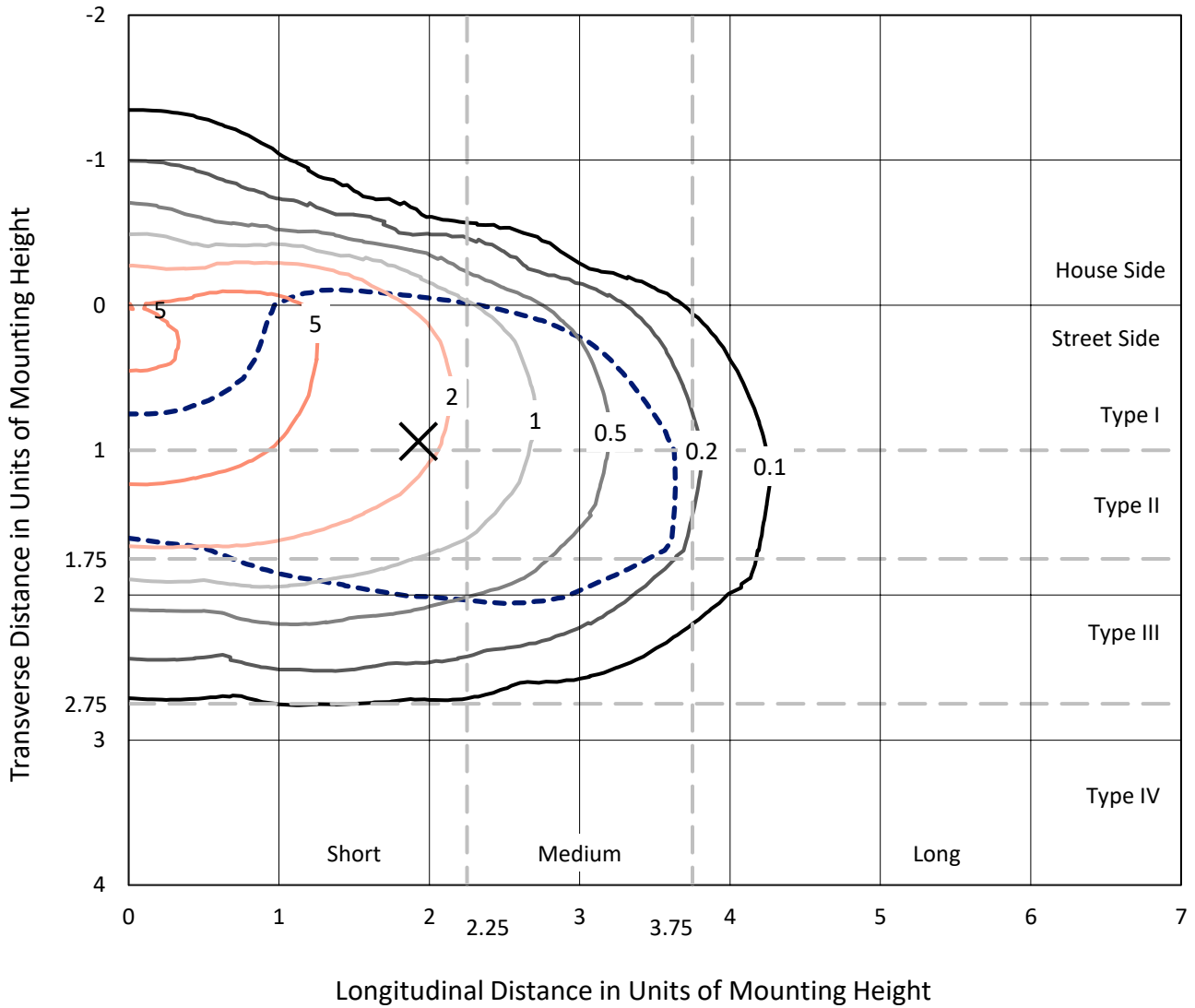
Lumens per Lamp: N/A  
Luminaire Lumens: 27211 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

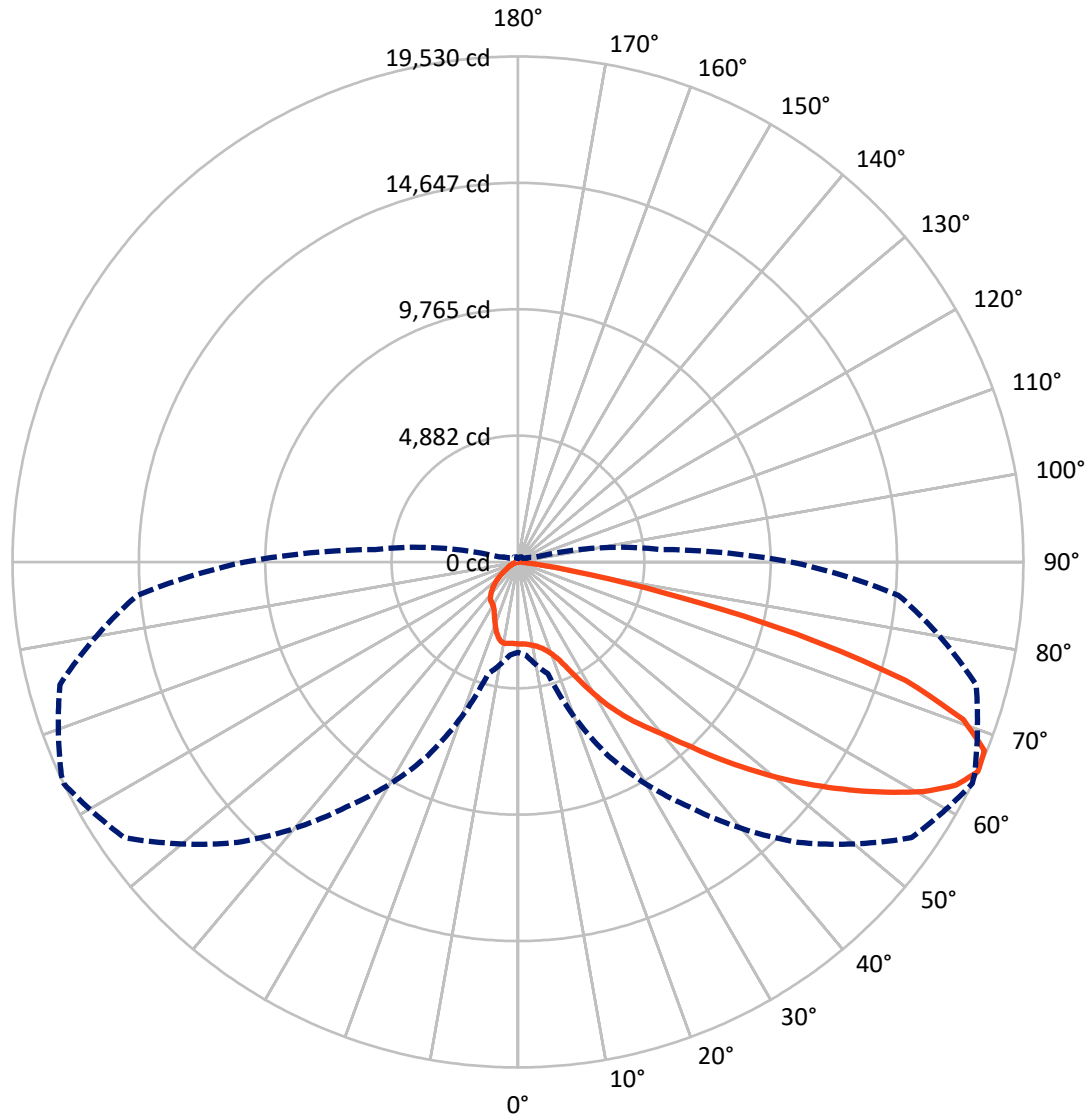
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3638.9	0.0	3638.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	23572.1	0.0	23572.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	27211.0	0.0	27211.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.0	1.1
10°-20°	792.0	2.9
20°-30°	1500.7	5.5
30°-40°	3036.8	11.2
40°-50°	5173.2	19.0
50°-60°	7035.1	25.9
60°-70°	6606.3	24.3
70°-80°	2646.8	9.7
80°-90°	128.2	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°	27211.0	100.0
0°-180°	27211.0	100.0

**Coefficient of Utilization**



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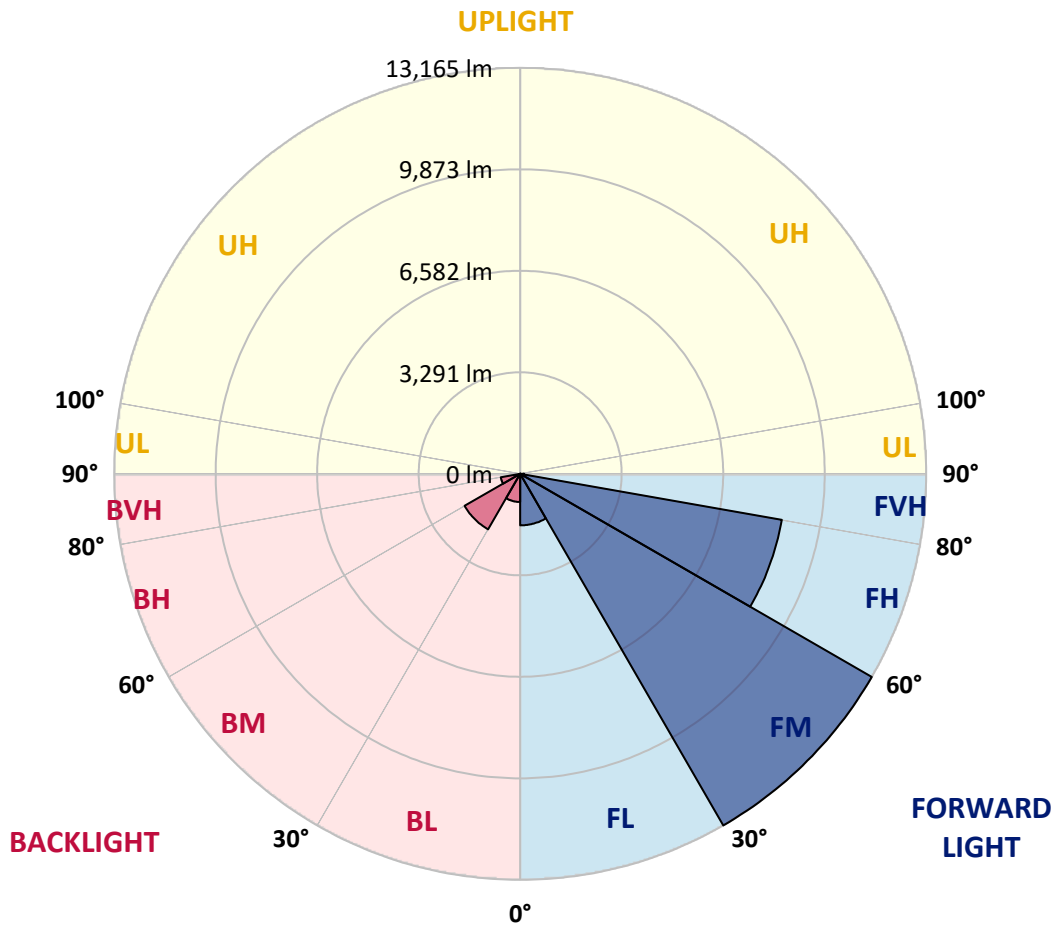
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.1	6.1			
FM (30°-60°)	13164.7	48.4			
FH (60°-80°)	8614.4	31.7			G4/12000
FVH (80°-90°)	122.0	0.4			G2/225
BL (0°-30°)	913.6	3.4	B2/1000		
BM (30°-60°)	2080.4	7.6	B2/2500		
BH (60°-80°)	638.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.3	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°	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9
2.5°	3154.0	3175.9	3170.4	3164.9	3163.1	3166.7	3168.6	3166.7	3166.7	3166.7
5°	3093.8	3112.0	3112.0	3124.8	3143.0	3164.9	3181.3	3185.0	3188.6	3194.1
7.5°	2978.9	2993.5	3004.4	3046.4	3092.0	3150.3	3199.6	3225.1	3228.8	3248.8
10°	2900.4	2918.7	2936.9	2980.7	3046.4	3133.9	3217.8	3279.8	3289.0	3336.4
12.5°	2896.8	2915.0	2938.7	2986.2	3062.8	3155.8	3258.0	3347.3	3363.8	3433.1
15°	2935.1	2957.0	2978.9	3037.2	3119.3	3232.4	3341.9	3453.1	3469.6	3568.1
17.5°	3013.5	3042.7	3059.1	3117.5	3205.1	3330.9	3475.0	3602.7	3617.3	3732.2
20°	3168.6	3203.2	3208.7	3256.1	3341.9	3476.9	3648.3	3807.0	3825.3	3956.6
22.5°	3489.6	3538.9	3495.1	3518.8	3595.4	3730.4	3916.5	4117.1	4142.7	4292.3
25°	4055.1	4124.4	4011.3	3971.2	4004.0	4144.5	4378.0	4631.5	4660.7	4781.1
27.5°	5166.0	5076.6	4905.2	4737.3	4638.8	4719.1	4981.8	5295.5	5332.0	5448.8
30°	6386.4	6308.0	6076.3	5704.2	5470.7	5457.9	5700.5	6050.7	6092.7	6204.0
32.5°	7608.6	7533.8	7282.1	6824.2	6419.2	6218.6	6386.4	6774.9	6796.8	6868.0
35°	8810.7	8734.1	8482.4	8013.5	7515.5	7059.5	7026.7	7464.5	7471.8	7546.6
37.5°	10020.1	9956.3	9688.1	9228.4	8737.7	8108.4	7803.8	8117.5	8126.6	8199.6
40°	10883.0	10910.3	10726.1	10370.4	9949.0	9261.3	8675.7	8812.5	8757.8	8880.0
42.5°	11623.6	11678.3	11517.8	11339.0	11094.6	10488.9	9755.6	9731.9	9644.3	9710.0
45°	12263.8	12309.4	12165.3	12123.4	12117.9	11692.9	10935.9	10793.6	10671.4	10658.6
47.5°	12499.2	12586.7	12648.7	12789.2	13062.8	12884.1	12156.2	11935.5	11798.7	11698.4
50°	12588.5	12681.6	12893.2	13301.8	13949.4	14026.0	13371.1	13123.0	12955.2	12772.8
52.5°	12468.2	12634.1	12918.7	13606.4	14545.9	14941.7	14536.8	14319.7	14128.1	13830.8
55°	11758.6	11924.5	12506.5	13602.8	14843.2	15583.8	15638.5	15541.9	15326.6	14857.8
57.5°	10262.7	10509.0	11430.2	13139.4	14837.7	16136.5	16718.4	16787.8	16547.0	15875.7
60°	8190.5	8524.3	9648.0	12112.4	14379.9	16435.7	17665.2	18011.8	17756.4	16879.0
62.5°	5715.1	6101.8	7165.3	10503.5	13332.8	16220.5	18356.5	18996.8	18803.5	17776.5
65°	3486.0	3610.0	4467.4	8265.3	11552.4	15319.3	18570.0	19529.5	19465.6	18325.5
67.5°	2322.2	2426.1	2672.4	5667.7	8967.6	13518.9	18059.2	19436.5	19454.7	18236.2
70°	1399.1	1488.5	1649.0	3296.3	5811.8	10700.5	16477.7	18250.7	18356.5	17041.3
72.5°	576.4	636.6	782.6	1494.0	3009.9	6791.4	13121.2	15669.6	15915.8	14328.8
75°	326.5	357.5	459.7	749.7	1306.1	3164.9	7947.9	11123.7	11486.8	9876.0
77.5°	217.1	231.7	297.3	485.2	735.1	1079.9	3396.6	5795.4	6488.5	5394.0
80°	145.9	158.7	204.3	324.7	477.9	463.3	1081.7	2147.0	2641.4	1853.3
82.5°	98.5	100.3	145.9	213.4	302.8	224.4	319.2	667.6	839.1	536.3
85°	56.5	54.7	107.6	124.0	135.0	93.0	96.7	200.7	262.7	226.2
87.5°	7.3	10.9	42.0	32.8	18.2	20.1	20.1	34.7	51.1	54.7
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°
3164.9	0°	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9
3168.6	2.5°	3168.6	3166.7	3161.3	3155.8	3143.0	3135.7	3139.4	3135.7	3133.9	3135.7
3192.3	5°	3192.3	3186.8	3172.2	3154.0	3128.4	3097.4	3077.4	3048.2	3020.8	3004.4
3256.1	7.5°	3256.1	3250.7	3230.6	3179.5	3097.4	2967.9	2849.3	2745.4	2666.9	2621.3
3358.3	10°	3358.3	3349.2	3318.2	3205.1	2989.8	2707.1	2471.7	2276.6	2148.9	2088.7
3478.7	12.5°	3478.7	3467.7	3413.0	3181.3	2785.5	2344.0	2019.3	1802.3	1683.7	1630.8
3617.3	15°	3621.0	3606.4	3498.7	3068.2	2488.2	1942.7	1645.4	1483.0	1406.4	1359.0
3794.3	17.5°	3797.9	3772.4	3562.6	2898.6	2165.3	1636.3	1415.6	1293.3	1225.8	1180.2
4025.9	20°	4027.8	3985.8	3613.7	2696.1	1867.9	1442.9	1260.5	1158.3	1107.3	1067.1
4354.3	22.5°	4348.8	4288.6	3675.7	2477.2	1658.2	1309.7	1145.6	1070.8	1028.8	983.2
4812.1	25°	4746.5	4675.3	3752.3	2274.7	1514.1	1194.8	1061.7	999.6	950.4	897.5
5412.3	27.5°	5302.8	5175.1	3843.5	2108.7	1390.0	1096.3	985.0	915.7	859.2	815.4
6092.7	30°	5923.1	5713.3	3923.8	2008.4	1276.9	1005.1	884.7	815.4	762.5	731.5
6703.8	32.5°	6510.4	6225.9	3976.7	1964.6	1174.8	901.1	775.3	700.5	660.3	651.2
7302.1	35°	7065.0	6689.2	3971.2	1922.7	1083.6	797.2	667.6	591.0	560.0	565.5
7946.1	37.5°	7703.4	7183.6	3932.9	1857.0	1008.8	702.3	574.6	507.1	479.8	481.6
8728.6	40°	8445.9	7754.5	3909.2	1733.0	926.7	614.7	498.0	443.3	423.2	415.9
9553.1	42.5°	9237.6	8307.2	3912.8	1592.5	824.5	536.3	445.1	399.5	381.2	375.8
10470.7	45°	10032.9	8834.4	3918.3	1446.6	716.9	476.1	406.8	368.5	357.5	350.2
11401.0	47.5°	10780.8	9283.2	3816.1	1289.7	611.1	430.5	375.8	350.2	341.1	332.0
12335.0	50°	11477.6	9582.3	3569.9	1107.3	527.2	394.0	352.1	333.8	324.7	315.6
13181.4	52.5°	12019.4	9629.8	3163.1	919.4	468.8	366.7	337.5	321.1	310.1	301.0
13865.5	55°	12260.2	9332.4	2584.8	744.3	423.2	342.9	322.9	306.5	293.7	284.6
14403.6	57.5°	12198.2	8706.7	2015.7	598.3	379.4	319.2	304.6	293.7	279.1	264.5
14839.6	60°	11893.5	7869.4	1519.5	498.0	339.3	293.7	284.6	275.4	255.4	233.5
15007.4	62.5°	11366.4	6816.9	1083.6	412.3	295.5	264.5	260.9	253.6	224.4	184.2
14759.3	65°	10560.1	5538.2	729.7	342.9	253.6	231.7	233.5	220.7	182.4	136.8
13850.9	67.5°	9381.7	4049.6	467.0	280.9	211.6	193.4	195.2	187.9	155.1	116.7
12128.9	70°	7880.4	2681.5	304.6	213.4	169.6	149.6	160.5	162.4	131.3	94.9
9308.7	72.5°	5777.1	1583.4	213.4	158.7	124.0	104.0	131.3	135.0	105.8	71.1
5600.2	75°	3292.6	751.6	160.5	114.9	76.6	73.0	102.2	102.2	73.0	47.4
2424.3	77.5°	1382.7	313.8	113.1	74.8	43.8	42.0	69.3	63.8	36.5	21.9
591.0	80°	399.5	140.5	60.2	36.5	18.2	16.4	27.4	20.1	9.1	3.6
224.4	82.5°	156.9	62.0	23.7	14.6	7.3	7.3	3.6	0.0	0.0	0.0
127.7	85°	93.0	25.5	10.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0
27.4	87.5°	23.7	5.5	3.6	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>
3164.9
3143.0
3008.0
2623.1
2083.2
1625.3
1360.8
1176.6
1059.8
975.9
892.0
806.3
726.0
656.7
565.5
488.9
414.1
374.0
350.2
332.0
315.6
299.2
282.7
262.7
229.8
180.6
133.2
111.3
91.2
67.5
43.8
21.9
3.6
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