

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: P951084

Luminaire Tested: **GALN-SB5B-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

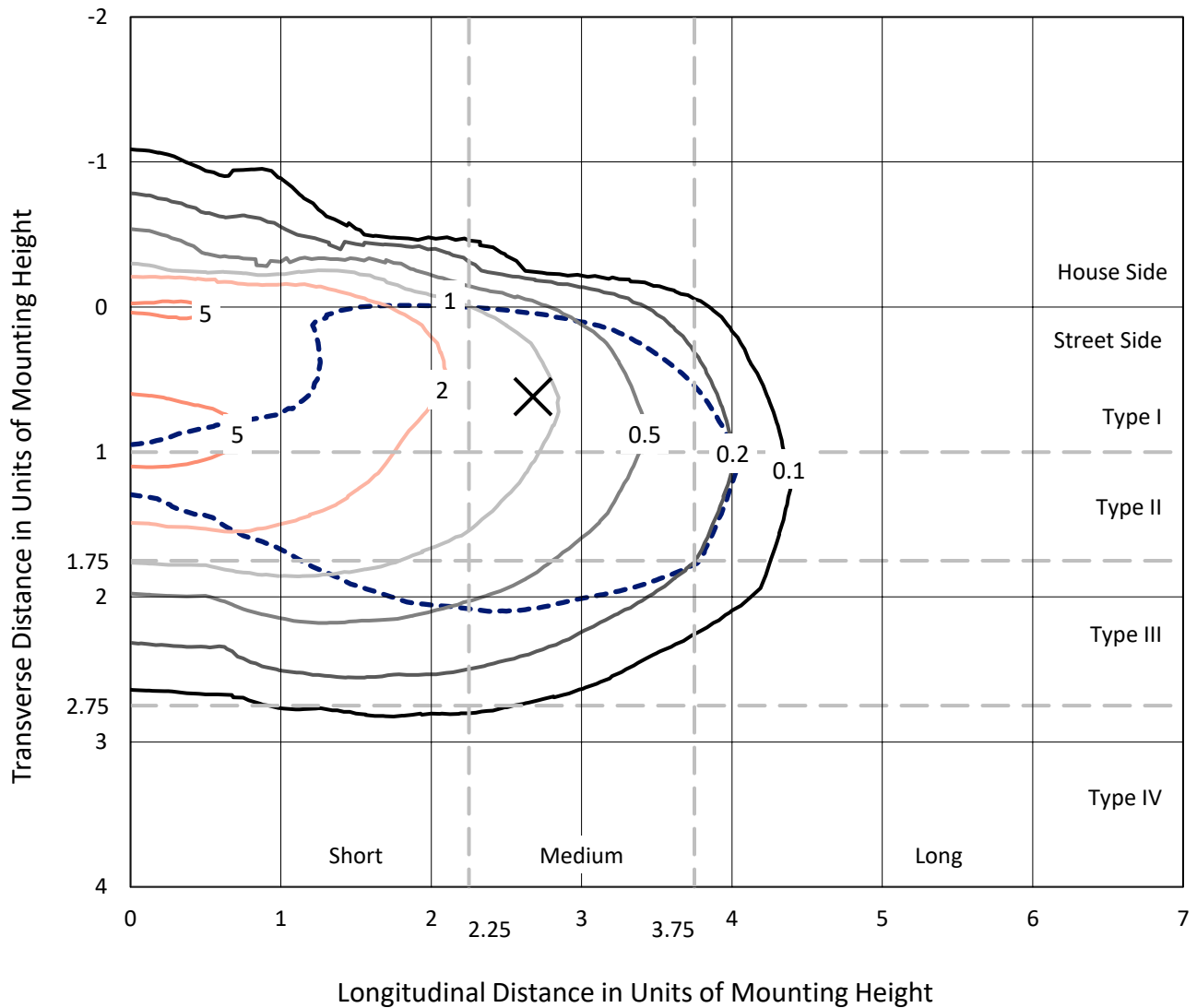
Lumens per Lamp: N/A  
Luminaire Lumens: 21279 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): 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

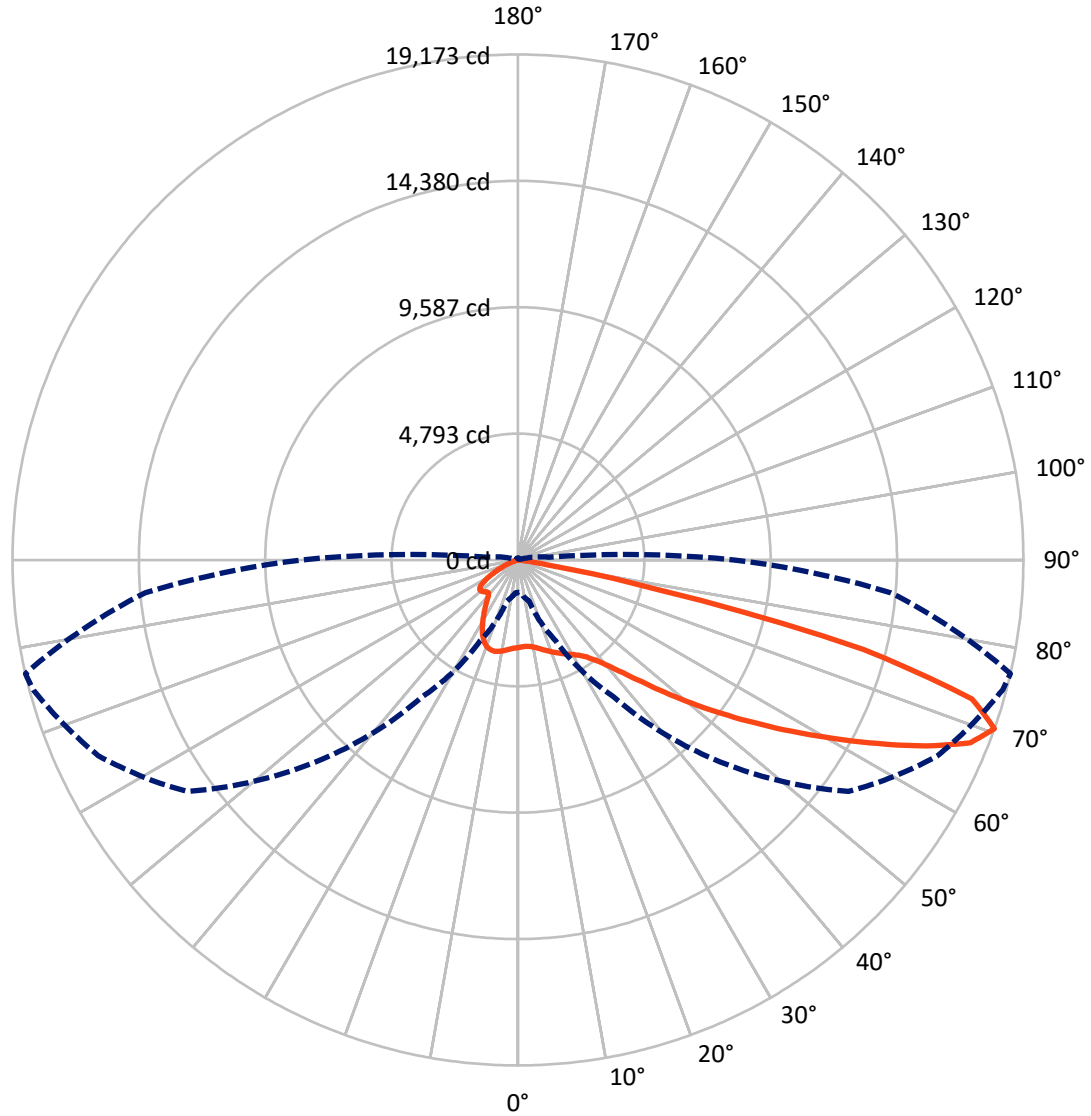
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2243.1	0.0	2243.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19035.9	0.0	19035.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	21279.0	0.0	21279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.3
10°-20°	679.1	3.2
20°-30°	1050.3	4.9
30°-40°	1905.9	9.0
40°-50°	3597.6	16.9
50°-60°	5198.2	24.4
60°-70°	5533.3	26.0
70°-80°	2932.3	13.8
80°-90°	96.3	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°	21279.0	100.0
0°-180°	21279.0	100.0

**Coefficient of Utilization**



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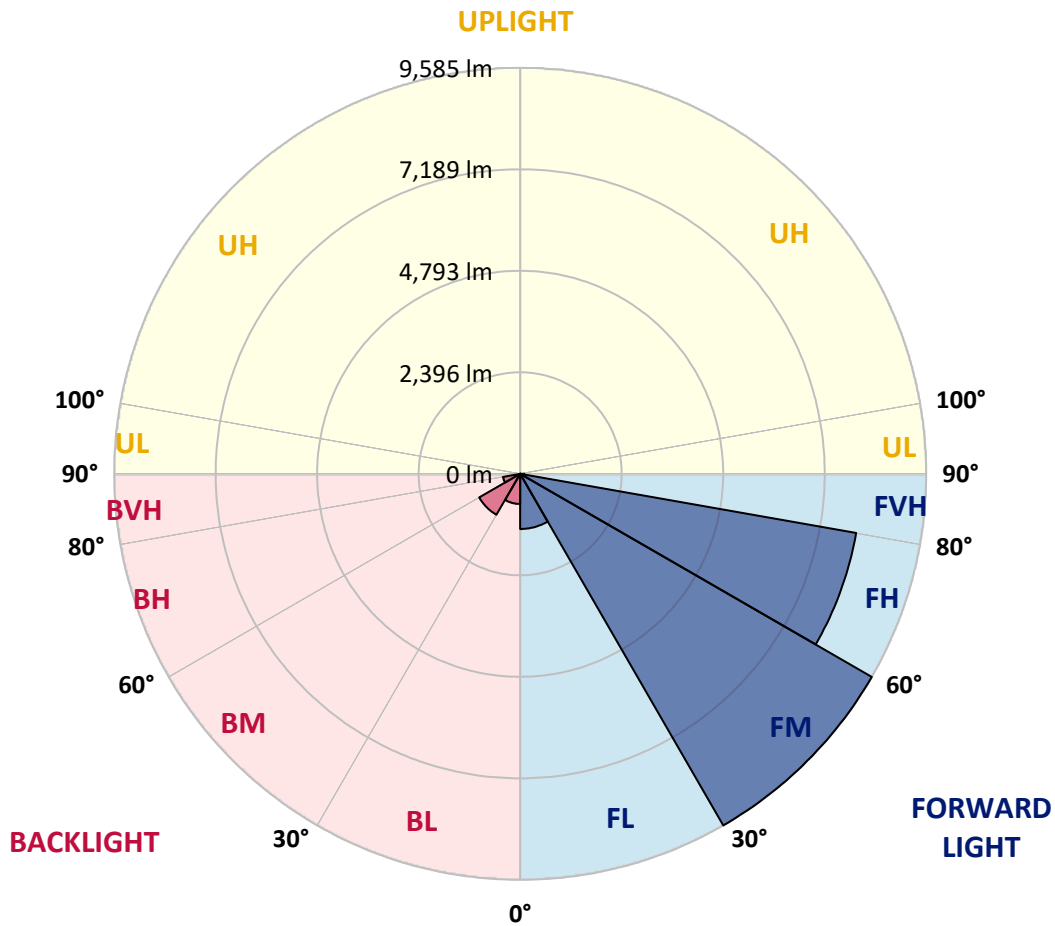
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.8	6.1			
FM (30°-60°)	9585.0	45.0			
FH (60°-80°)	8054.4	37.9			G4/12000
FVH (80°-90°)	93.7	0.4			G1/100
BL (0°-30°)	712.7	3.3	B2/1000		
BM (30°-60°)	1116.6	5.2	B2/2500		
BH (60°-80°)	411.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1
2.5°	3116.2	3144.4	3140.4	3159.2	3165.9	3192.8	3219.7	3256.0	3296.3	3295.0
5°	2940.2	2968.4	2975.1	3000.7	3032.9	3074.6	3129.7	3202.2	3277.5	3289.6
7.5°	2731.9	2761.5	2778.9	2830.0	2889.1	2975.1	3065.2	3171.3	3296.3	3313.8
10°	2523.6	2550.5	2573.3	2645.9	2740.0	2867.6	3014.1	3167.3	3335.3	3360.8
12.5°	2394.6	2420.2	2445.7	2508.8	2625.7	2781.6	2980.5	3186.1	3399.8	3436.0
15°	2348.9	2371.8	2391.9	2448.4	2557.2	2734.6	2973.8	3225.1	3481.7	3530.1
17.5°	2355.6	2367.7	2381.2	2424.2	2530.3	2713.1	2985.9	3292.3	3578.5	3621.5
20°	2394.6	2401.3	2402.7	2432.2	2526.3	2710.4	3010.1	3356.8	3669.9	3727.6
22.5°	2444.3	2447.0	2444.3	2464.5	2551.8	2730.6	3042.3	3434.7	3772.0	3825.7
25°	2676.8	2625.7	2561.2	2522.3	2594.8	2769.5	3090.7	3539.5	3883.5	3935.9
27.5°	3398.4	3252.0	3020.8	2761.5	2683.5	2826.0	3157.9	3645.7	3996.4	4043.4
30°	4570.2	4378.0	3985.7	3401.1	2968.4	2944.2	3245.2	3751.8	4116.0	4167.1
32.5°	5744.7	5697.6	5244.8	4435.8	3609.4	3207.6	3390.4	3895.6	4274.6	4314.9
35°	6932.6	6837.2	6466.3	5666.7	4597.1	3743.8	3632.2	4083.8	4482.9	4528.5
37.5°	7842.3	7784.5	7554.7	6896.3	5768.9	4571.5	4046.1	4375.4	4785.2	4836.3
40°	8645.9	8619.0	8541.1	8107.0	7079.0	5654.6	4689.8	4826.9	5204.5	5264.9
42.5°	9277.5	9340.6	9385.0	9264.0	8429.5	6890.9	5555.2	5461.1	5789.0	5850.8
45°	9923.8	9945.3	10124.0	10298.7	9770.6	8183.6	6530.8	6204.2	6516.0	6592.6
47.5°	10339.1	10425.1	10739.5	11047.2	10898.1	9465.6	7578.9	7081.7	7358.5	7502.3
50°	10370.0	10532.6	10965.3	11501.4	11719.1	10685.7	8718.5	8081.5	8375.8	8534.4
52.5°	9855.3	10107.9	10778.5	11563.2	12162.6	11719.1	9896.9	9081.3	9458.9	9665.8
55°	7556.1	7886.7	10075.7	11227.3	12180.0	12502.5	11044.5	10122.7	10665.6	10899.4
57.5°	6583.2	6749.8	7921.6	10644.1	11856.2	12818.3	12081.9	11114.4	11978.5	12268.7
60°	5477.3	5696.3	6643.7	9690.0	11416.8	12849.2	12998.4	12393.7	13401.5	13728.1
62.5°	3722.3	3960.1	4902.1	8050.6	10816.1	12834.5	13749.6	13710.6	14983.2	15333.9
65°	2305.9	2455.1	3075.9	6573.8	9976.2	12850.6	14535.7	15309.7	16652.1	17008.2
67.5°	1822.2	1890.7	2214.6	5047.2	8529.0	12487.8	15320.5	16813.4	18223.0	18505.2
70°	1224.2	1265.8	1611.2	3383.6	6345.3	10813.4	15305.7	17568.6	19032.0	19173.1
72.5°	645.0	677.3	942.0	1566.8	3832.5	7686.4	12901.6	16665.6	18227.0	18014.7
75°	322.5	376.3	634.3	795.5	1636.7	4286.7	8011.6	13139.5	14346.2	13523.8
77.5°	244.6	295.6	524.1	524.1	569.8	1443.2	3393.0	7166.4	6610.1	5504.1
80°	155.9	201.6	458.2	396.4	237.8	366.9	884.2	2007.6	1404.3	1068.3
82.5°	91.4	131.7	381.6	262.0	133.0	135.7	249.9	427.3	364.2	283.5
85°	36.3	86.0	262.0	103.5	52.4	33.6	75.3	91.4	75.3	56.4
87.5°	0.0	20.2	45.7	0.0	4.0	2.7	5.4	6.7	6.7	5.4
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°
3319.1	0°	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1	3319.1
3321.8	2.5°	3333.9	3336.6	3344.7	3346.0	3327.2	3303.0	3293.6	3289.6	3273.5	3272.1
3343.3	5°	3374.2	3386.3	3374.2	3339.3	3256.0	3139.1	3050.4	2977.8	2912.0	2891.8
3417.2	7.5°	3454.9	3467.0	3430.7	3293.6	3084.0	2851.5	2641.9	2494.1	2361.0	2311.3
3507.3	10°	3570.4	3586.6	3472.3	3195.5	2824.6	2451.1	2096.3	1846.4	1651.5	1572.2
3629.6	12.5°	3715.6	3722.3	3495.2	3046.4	2487.3	1953.9	1451.3	1183.9	1010.5	946.0
3777.4	15°	3875.5	3866.1	3497.9	2843.4	2027.8	1381.4	947.4	778.0	708.2	686.7
3925.2	17.5°	4043.4	4004.5	3444.1	2550.5	1523.8	944.7	702.8	662.5	650.4	645.0
4071.7	20°	4208.7	4121.4	3346.0	2167.5	1093.8	705.5	638.3	626.2	619.5	616.8
4219.5	22.5°	4359.2	4210.1	3178.0	1722.7	794.2	623.5	603.4	592.6	580.5	575.1
4363.3	25°	4505.7	4261.1	2941.5	1307.5	635.6	583.2	567.1	546.9	530.8	524.1
4517.8	27.5°	4648.1	4293.4	2645.9	967.5	567.1	545.6	516.0	487.8	475.7	473.0
4683.1	30°	4800.0	4304.1	2310.0	721.6	525.4	498.5	455.5	423.3	416.6	417.9
4906.1	32.5°	4985.4	4320.3	1971.3	591.3	490.5	442.1	391.0	357.4	352.1	357.4
5231.3	35°	5207.2	4352.5	1644.8	544.2	459.6	384.3	329.2	301.0	295.6	299.7
5647.9	37.5°	5508.2	4404.9	1339.7	534.8	434.0	335.9	276.8	254.0	254.0	255.3
6158.5	40°	5908.6	4544.7	1067.0	528.1	420.6	299.7	233.8	224.4	228.4	231.1
6808.9	42.5°	6396.4	4841.6	882.9	520.0	405.8	283.5	212.3	208.3	215.0	217.7
7588.3	45°	6943.3	5217.9	818.4	506.6	392.4	294.3	202.9	197.5	205.6	206.9
8461.8	47.5°	7509.0	5586.1	810.3	491.8	378.9	310.4	200.2	188.1	197.5	198.9
9394.4	50°	8081.5	5826.6	818.4	469.0	357.4	310.4	201.6	178.7	186.8	190.8
10361.9	52.5°	8658.0	5936.8	813.0	419.3	319.8	291.6	201.6	170.7	178.7	181.4
11407.4	55°	9217.0	5915.3	731.0	345.4	271.4	258.0	196.2	163.9	169.3	170.7
12395.0	57.5°	9659.1	5615.7	579.2	268.8	220.4	215.0	178.7	155.9	159.9	158.6
13300.7	60°	9890.2	4957.2	413.9	206.9	173.3	169.3	157.2	145.1	147.8	141.1
14068.0	62.5°	9892.9	4086.4	276.8	163.9	138.4	134.4	134.4	130.3	127.7	114.2
14662.0	65°	9681.9	3120.3	184.1	130.3	111.5	104.8	112.9	111.5	102.1	83.3
14843.4	67.5°	9203.6	2045.2	139.8	102.1	86.0	82.0	90.0	94.1	87.3	69.9
14182.3	70°	8219.9	1190.6	115.6	79.3	64.5	60.5	72.6	80.6	72.6	56.4
12122.3	72.5°	6827.8	642.3	94.1	59.1	44.3	40.3	57.8	65.8	57.8	41.7
7777.8	75°	4430.4	344.0	72.6	39.0	22.8	25.5	43.0	48.4	40.3	26.9
2283.1	77.5°	1487.6	151.8	45.7	18.8	10.8	10.8	25.5	29.6	18.8	9.4
415.2	80°	331.9	63.2	18.8	8.1	4.0	4.0	5.4	5.4	2.7	0.0
127.7	82.5°	108.8	25.5	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
32.3	85°	41.7	9.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	16.1	1.3	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>
3319.1
3274.8
2879.7
2291.1
1538.6
925.9
686.7
643.7
614.1
573.8
521.4
470.3
417.9
356.1
298.3
254.0
231.1
217.7
208.3
200.2
192.2
181.4
170.7
158.6
139.8
110.2
80.6
68.5
53.8
40.3
24.2
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