

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: P951546

Luminaire Tested: **GALN-SB5C-930-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951546  
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-SB5C-930-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

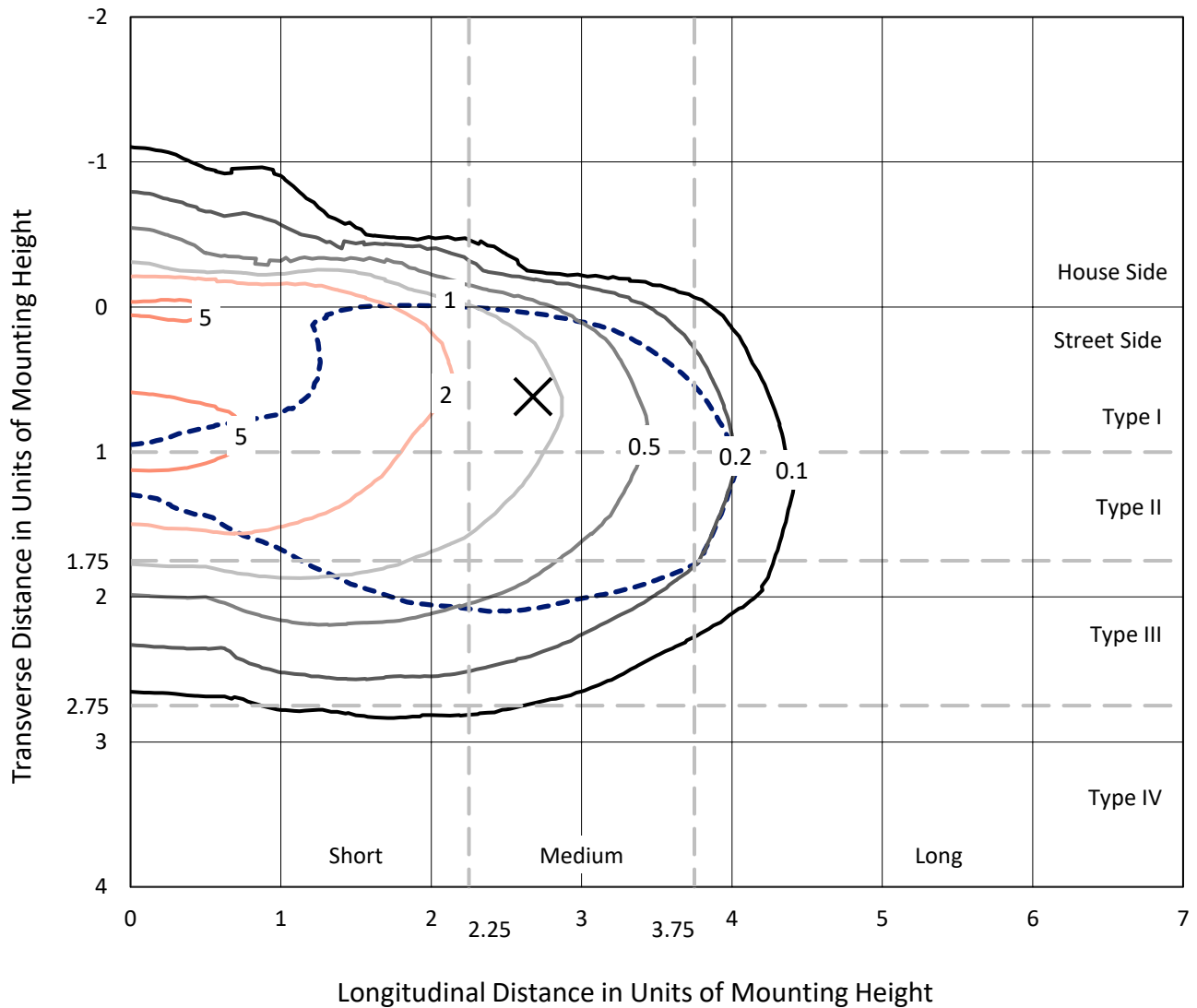
Lumens per Lamp: N/A  
Luminaire Lumens: 21910 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

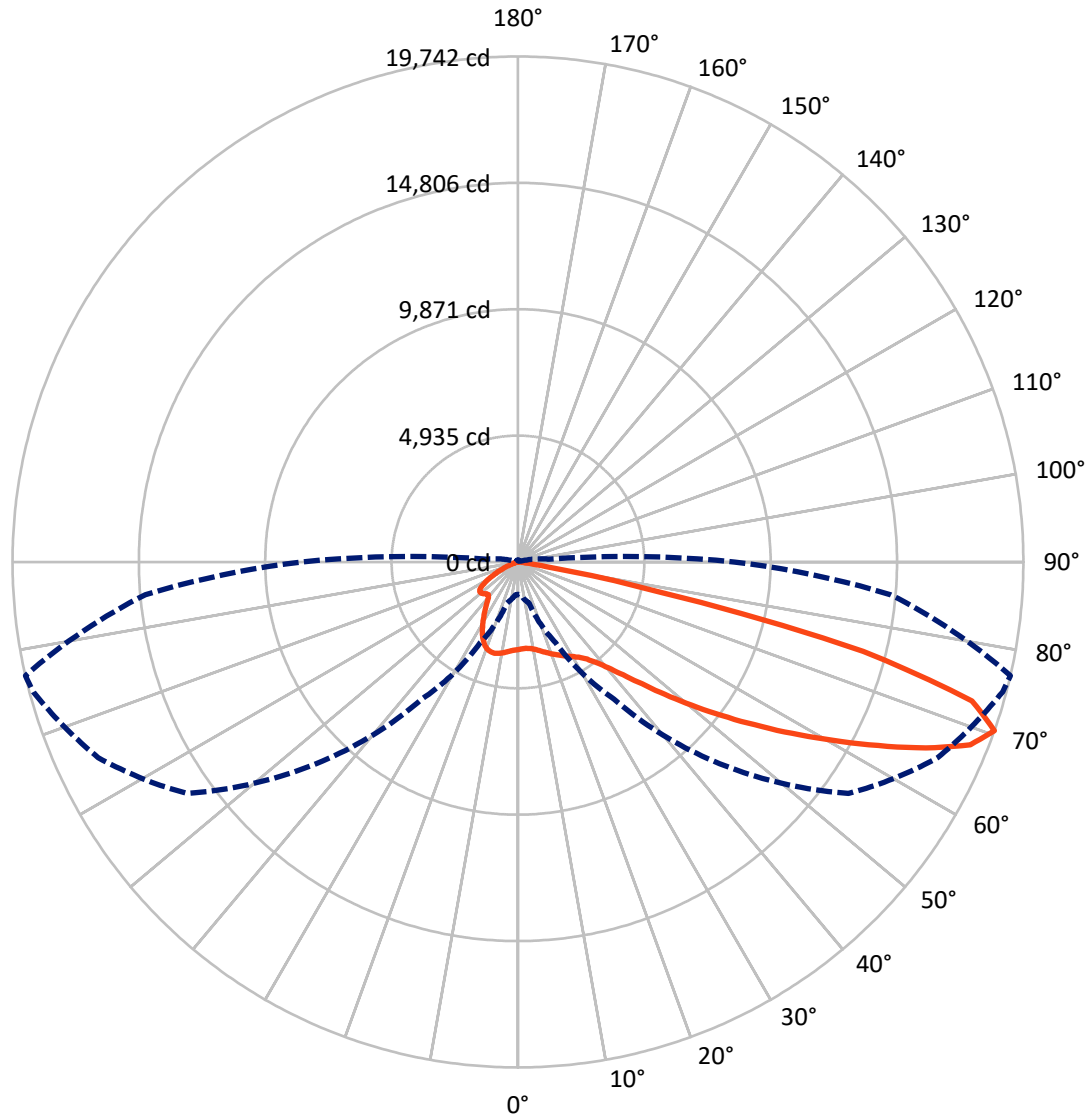
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2309.6	0.0	2309.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19600.4	0.0	19600.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	21910.0	0.0	21910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	1.3
10°-20°	699.2	3.2
20°-30°	1081.5	4.9
30°-40°	1962.4	9.0
40°-50°	3704.3	16.9
50°-60°	5352.3	24.4
60°-70°	5697.4	26.0
70°-80°	3019.2	13.8
80°-90°	99.1	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°	21910.0	100.0
0°-180°	21910.0	100.0

**Coefficient of Utilization**



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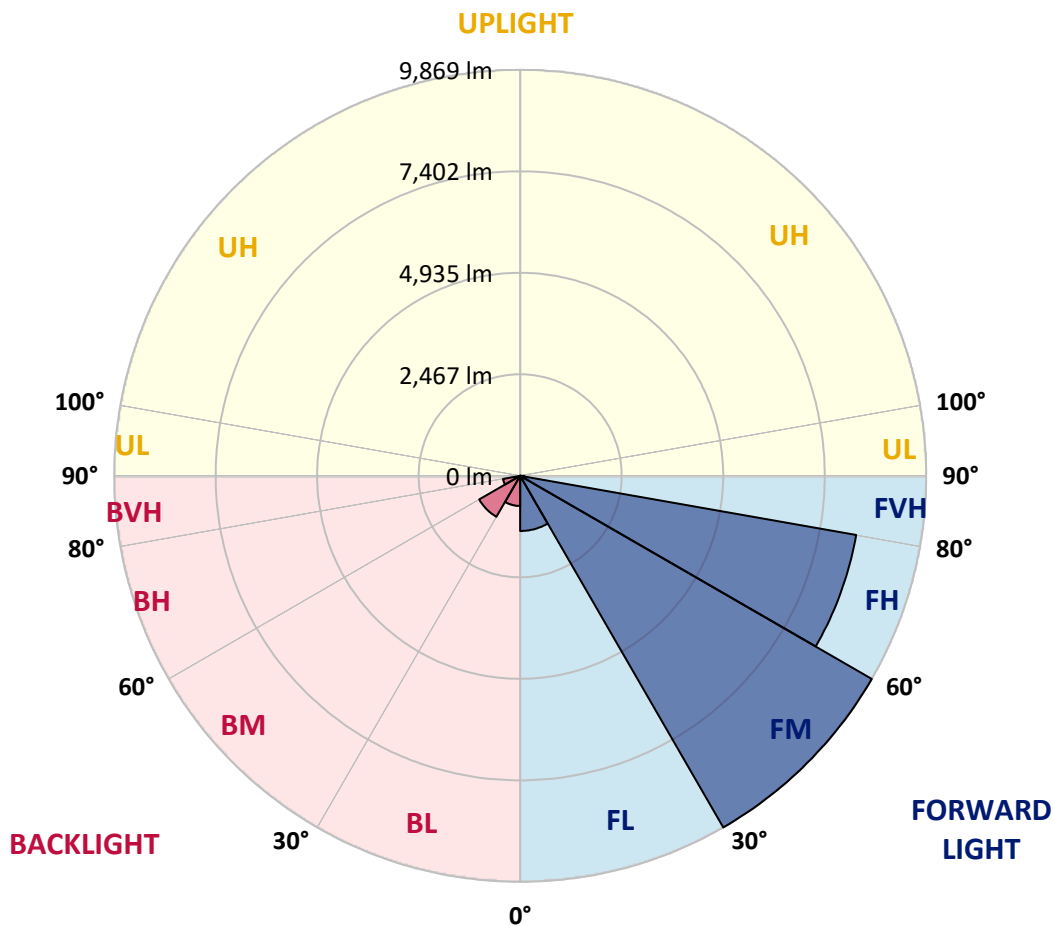
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.4	6.1			
FM (30°-60°)	9869.2	45.0			
FH (60°-80°)	8293.2	37.9			G4/12000
FVH (80°-90°)	96.5	0.4			G1/100
BL (0°-30°)	733.8	3.3	B2/1000		
BM (30°-60°)	1149.7	5.2	B2/2500		
BH (60°-80°)	423.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6
2.5°	3208.6	3237.7	3233.5	3252.9	3259.8	3287.5	3315.2	3352.5	3394.0	3392.7
5°	3027.4	3056.4	3063.4	3089.6	3122.9	3165.7	3222.5	3297.2	3374.7	3387.1
7.5°	2812.9	2843.4	2861.3	2913.9	2974.8	3063.4	3156.1	3265.4	3394.0	3412.0
10°	2598.5	2626.1	2649.7	2724.4	2821.2	2952.7	3103.5	3261.2	3434.2	3460.5
12.5°	2465.6	2491.9	2518.2	2583.2	2703.6	2864.1	3068.9	3280.6	3500.6	3537.9
15°	2418.6	2442.1	2462.9	2521.0	2633.0	2815.7	3062.0	3320.7	3585.0	3634.8
17.5°	2425.5	2438.0	2451.8	2496.1	2605.4	2793.5	3074.4	3389.9	3684.6	3728.9
20°	2465.6	2472.5	2473.9	2504.4	2601.2	2790.8	3099.3	3456.3	3778.7	3838.2
22.5°	2516.8	2519.6	2516.8	2537.6	2627.5	2811.5	3132.5	3536.6	3883.8	3939.2
25°	2756.2	2703.6	2637.2	2597.1	2671.8	2851.7	3182.3	3644.5	3998.7	4052.7
27.5°	3499.2	3348.4	3110.4	2843.4	2763.1	2909.8	3251.5	3753.8	4114.9	4163.3
30°	4705.7	4507.9	4103.8	3502.0	3056.4	3031.5	3341.5	3863.1	4238.1	4290.6
32.5°	5915.0	5866.6	5400.3	4567.4	3716.4	3302.7	3490.9	4011.1	4401.3	4442.8
35°	7138.1	7039.9	6658.0	5834.8	4733.4	3854.8	3739.9	4204.8	4615.8	4662.8
37.5°	8074.9	8015.4	7778.8	7100.8	5939.9	4707.1	4166.1	4505.1	4927.1	4979.7
40°	8902.3	8874.6	8794.3	8347.4	7289.0	5822.3	4828.9	4970.0	5358.8	5421.1
42.5°	9552.6	9617.6	9663.3	9538.7	8679.5	7095.3	5719.9	5623.1	5960.7	6024.3
45°	10218.1	10240.2	10424.3	10604.1	10060.4	8426.3	6724.4	6388.2	6709.2	6788.1
47.5°	10645.6	10734.2	11058.0	11374.8	11221.2	9746.3	7803.7	7291.7	7576.8	7724.8
50°	10677.5	10844.9	11290.4	11842.5	12066.6	11002.6	8977.0	8321.1	8624.2	8787.4
52.5°	10147.5	10407.7	11098.1	11906.1	12523.2	12066.6	10190.4	9350.6	9739.4	9952.4
55°	7780.1	8120.5	10374.5	11560.2	12541.2	12873.3	11372.0	10422.9	10981.9	11222.6
57.5°	6778.4	6950.0	8156.5	10959.7	12207.8	13198.4	12440.2	11444.0	12333.7	12632.5
60°	5639.7	5865.2	6840.7	9977.4	11755.3	13230.3	13383.8	12761.2	13798.9	14135.2
62.5°	3832.7	4077.6	5047.5	8289.3	11136.8	13215.0	14157.3	14117.2	15427.5	15788.6
65°	2374.3	2527.9	3167.1	6768.7	10272.1	13231.6	14966.7	15763.7	17145.9	17512.6
67.5°	1876.2	1946.8	2280.2	5196.9	8781.9	12858.1	15774.8	17312.0	18763.4	19054.0
70°	1260.5	1303.4	1659.0	3484.0	6533.5	11134.1	15759.5	18089.6	19596.3	19741.6
72.5°	664.1	697.3	969.9	1613.3	3946.1	7914.4	13284.2	17159.8	18767.5	18548.9
75°	332.1	387.4	653.1	819.1	1685.3	4413.8	8249.2	13529.1	14771.6	13924.8
77.5°	251.8	304.4	539.6	539.6	586.7	1486.0	3493.7	7378.9	6806.1	5667.3
80°	160.5	207.5	471.8	408.2	244.9	377.7	910.4	2067.1	1445.9	1100.0
82.5°	94.1	135.6	393.0	269.8	137.0	139.7	257.4	440.0	375.0	291.9
85°	37.4	88.6	269.8	106.5	54.0	34.6	77.5	94.1	77.5	58.1
87.5°	0.0	20.8	47.0	0.0	4.2	2.8	5.5	6.9	6.9	5.5
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°
3417.6	0°	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6
3420.3	2.5°	3432.8	3435.6	3443.9	3445.2	3425.9	3401.0	3391.3	3387.1	3370.5	3369.1
3442.5	5°	3474.3	3486.7	3474.3	3438.3	3352.5	3232.2	3140.8	3066.1	2998.3	2977.6
3518.6	7.5°	3557.3	3569.8	3532.4	3391.3	3175.4	2936.1	2720.2	2568.0	2431.0	2379.8
3611.3	10°	3676.3	3692.9	3575.3	3290.3	2908.4	2523.7	2158.5	1901.1	1700.5	1618.8
3737.2	12.5°	3825.7	3832.7	3598.8	3136.7	2561.1	2011.8	1494.3	1219.0	1040.5	974.1
3889.4	15°	3990.4	3980.7	3601.6	2927.8	2087.9	1422.4	975.5	801.1	729.2	707.0
4041.6	17.5°	4163.3	4123.2	3546.2	2626.1	1569.0	972.7	723.6	682.1	669.7	664.1
4192.4	20°	4333.5	4243.6	3445.2	2231.8	1126.3	726.4	657.2	644.8	637.9	635.1
4344.6	22.5°	4488.5	4334.9	3272.3	1773.8	817.7	642.0	621.2	610.2	597.7	592.2
4492.6	25°	4639.3	4387.5	3028.8	1346.3	654.5	600.5	583.9	563.1	546.5	539.6
4651.8	27.5°	4786.0	4420.7	2724.4	996.2	583.9	561.8	531.3	502.3	489.8	487.0
4821.9	30°	4942.3	4431.8	2378.5	743.0	541.0	513.3	469.1	435.8	428.9	430.3
5051.6	32.5°	5133.3	4448.4	2029.8	608.8	505.0	455.2	402.6	368.0	362.5	368.0
5386.5	35°	5361.6	4481.6	1693.6	560.4	473.2	395.7	339.0	309.9	304.4	308.5
5815.4	37.5°	5671.5	4535.5	1379.5	550.7	446.9	345.9	285.0	261.5	261.5	262.9
6341.2	40°	6083.8	4679.4	1098.6	543.8	433.1	308.5	240.8	231.1	235.2	238.0
7010.8	42.5°	6586.1	4985.2	909.0	535.5	417.9	291.9	218.6	214.5	221.4	224.1
7813.4	45°	7149.2	5372.6	842.6	521.6	404.0	303.0	208.9	203.4	211.7	213.1
8712.7	47.5°	7731.7	5751.7	834.3	506.4	390.2	319.6	206.2	193.7	203.4	204.8
9673.0	50°	8321.1	5999.4	842.6	482.9	368.0	319.6	207.5	184.0	192.3	196.5
10669.2	52.5°	8914.7	6112.9	837.1	431.7	329.3	300.2	207.5	175.7	184.0	186.8
11745.6	55°	9490.3	6090.7	752.7	355.6	279.5	265.7	202.0	168.8	174.3	175.7
12762.6	57.5°	9945.5	5782.2	596.3	276.7	226.9	221.4	184.0	160.5	164.7	163.3
13695.2	60°	10183.5	5104.2	426.2	213.1	178.5	174.3	161.9	149.4	152.2	145.3
14485.2	62.5°	10186.3	4207.6	285.0	168.8	142.5	138.4	138.4	134.2	131.4	117.6
15096.8	65°	9969.0	3212.8	189.6	134.2	114.8	107.9	116.2	114.8	105.2	85.8
15283.6	67.5°	9476.5	2105.9	143.9	105.2	88.6	84.4	92.7	96.9	89.9	71.9
14602.8	70°	8463.7	1225.9	119.0	81.6	66.4	62.3	74.7	83.0	74.7	58.1
12481.7	72.5°	7030.2	661.4	96.9	60.9	45.7	41.5	59.5	67.8	59.5	42.9
8008.4	75°	4561.8	354.2	74.7	40.1	23.5	26.3	44.3	49.8	41.5	27.7
2350.8	77.5°	1531.7	156.4	47.0	19.4	11.1	11.1	26.3	30.4	19.4	9.7
427.5	80°	341.8	65.0	19.4	8.3	4.2	4.2	5.5	5.5	2.8	0.0
131.4	82.5°	112.1	26.3	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
33.2	85°	42.9	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.1	87.5°	16.6	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>
3417.6
3371.9
2965.1
2359.1
1584.3
953.3
707.0
662.8
632.3
590.8
536.8
484.3
430.3
366.7
307.2
261.5
238.0
224.1
214.5
206.2
197.9
186.8
175.7
163.3
143.9
113.5
83.0
70.6
55.3
41.5
24.9
8.3
0.0
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