

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: P951019

Luminaire Tested: **GALN-SB5B-750-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951019  
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-750-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

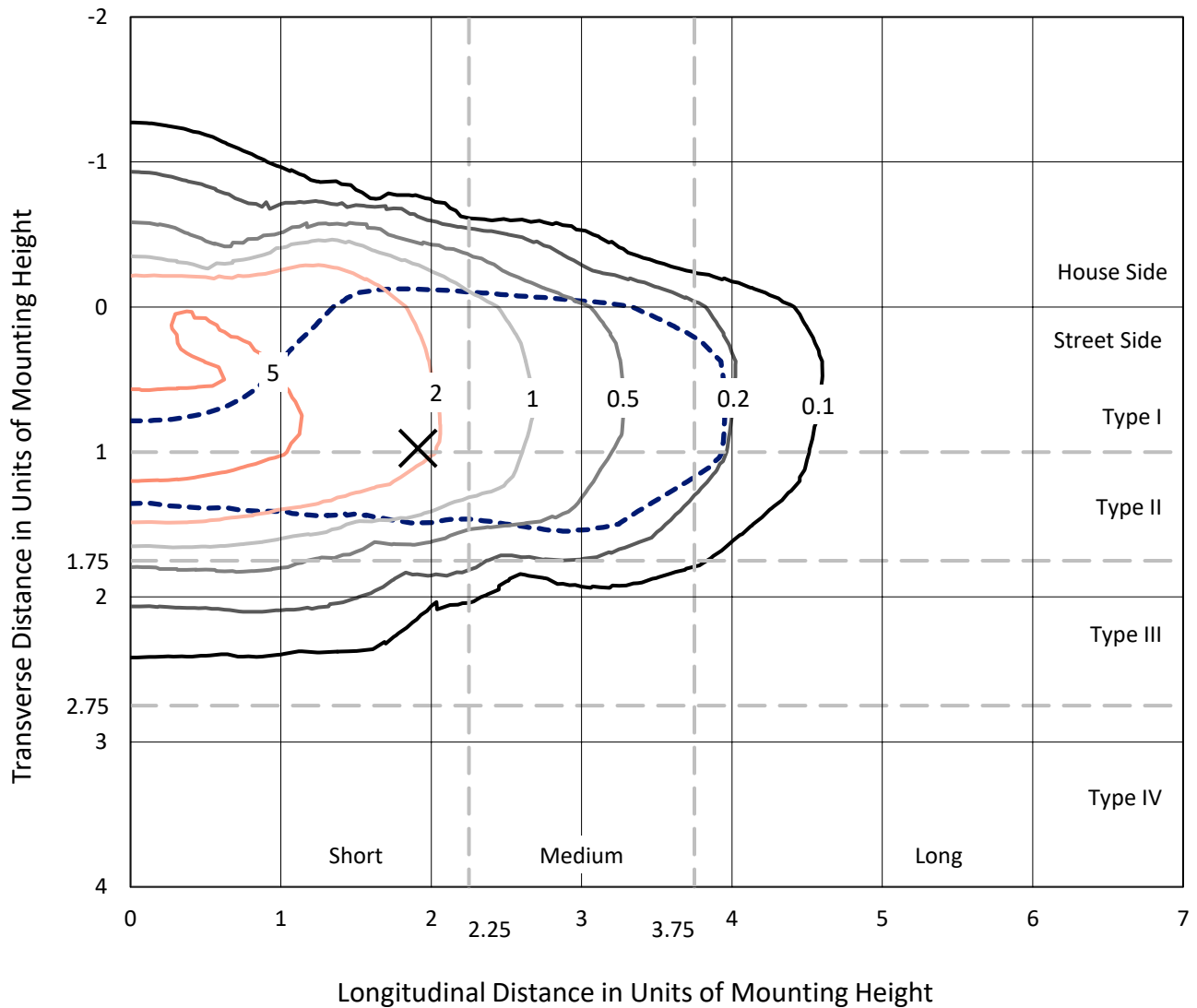
Lumens per Lamp: N/A  
Luminaire Lumens: 22999 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

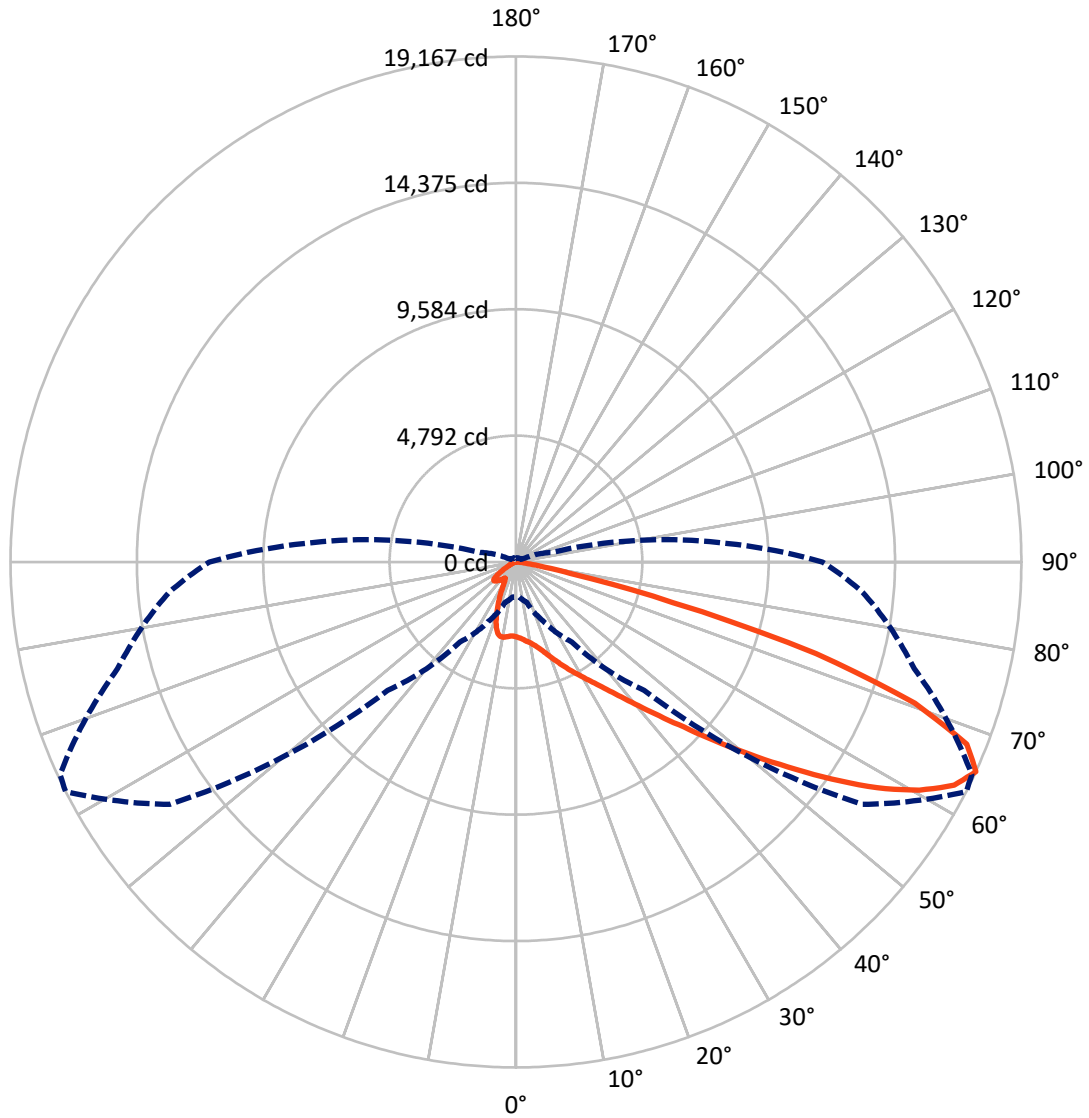
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3380.7	0.0	3380.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	19618.3	0.0	19618.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	22999.0	0.0	22999.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.4	1.2
10°-20°	742.1	3.2
20°-30°	1292.1	5.6
30°-40°	2328.9	10.1
40°-50°	4618.9	20.1
50°-60°	6291.7	27.4
60°-70°	5022.0	21.8
70°-80°	2272.6	9.9
80°-90°	163.4	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°	22999.0	100.0
0°-180°	22999.0	100.0

**Coefficient of Utilization**



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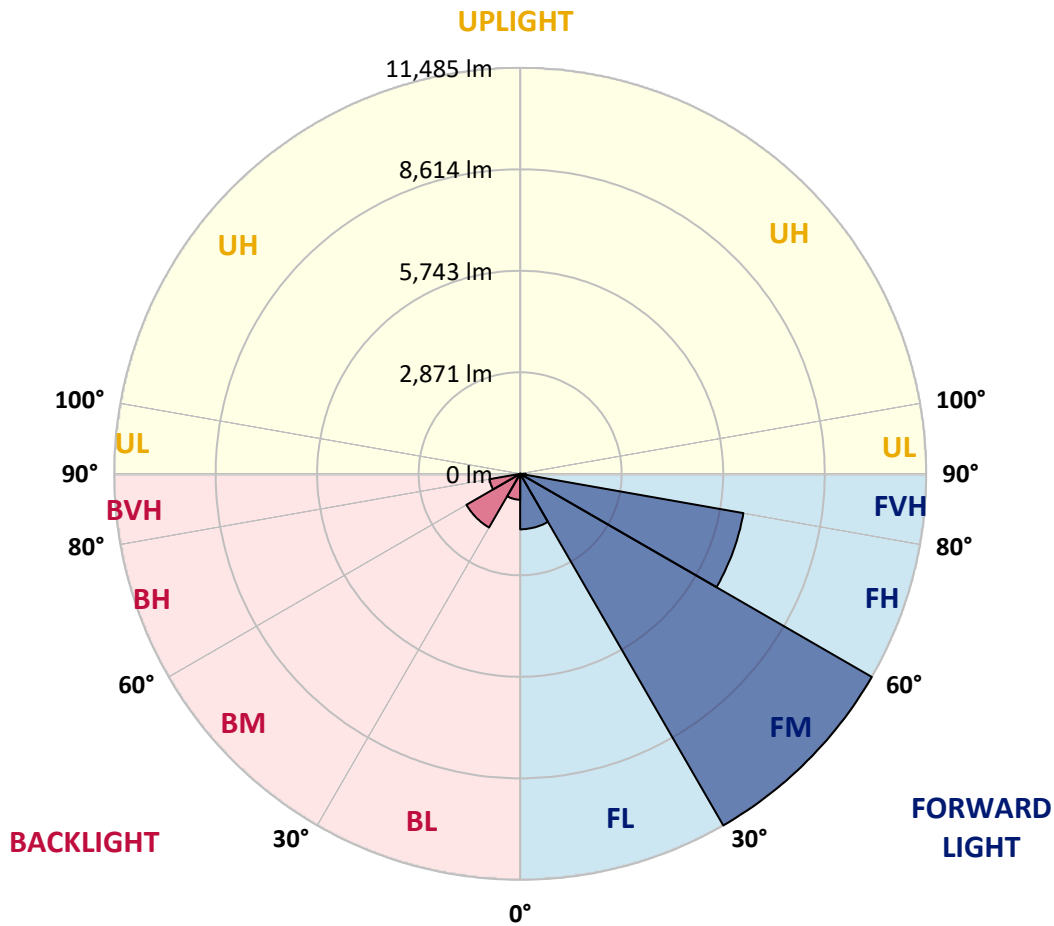
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.0	6.8			
FM (30°-60°)	11485.1	49.9			
FH (60°-80°)	6412.0	27.9			G3/7500
FVH (80°-90°)	151.2	0.7			G2/225
BL (0°-30°)	731.6	3.2	B2/1000		
BM (30°-60°)	1754.4	7.6	B2/2500		
BH (60°-80°)	882.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.1	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°	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5
2.5°	2905.0	2897.1	2908.1	2903.4	2900.2	2893.9	2890.7	2887.6	2881.2	2876.5
5°	2912.9	2908.1	2919.2	2928.7	2938.2	2947.7	2952.4	2958.8	2952.4	2939.8
7.5°	2846.4	2843.3	2867.0	2895.5	2938.2	2974.6	3014.1	3036.3	3037.9	3033.1
10°	2841.7	2833.8	2857.5	2892.3	2947.7	3012.6	3082.2	3129.6	3136.0	3156.5
12.5°	2916.0	2908.1	2941.4	2979.3	3036.3	3104.3	3189.8	3256.2	3265.7	3294.2
15°	3041.0	3030.0	3067.9	3117.0	3189.8	3267.3	3357.5	3417.6	3425.5	3460.3
17.5°	3186.6	3175.5	3219.8	3272.0	3351.2	3457.2	3561.6	3628.0	3637.5	3659.7
20°	3373.3	3359.1	3393.9	3441.3	3525.2	3651.8	3776.8	3871.7	3870.1	3870.1
22.5°	3590.1	3567.9	3598.0	3636.0	3715.1	3868.5	4034.7	4147.0	4147.0	4102.7
25°	3822.7	3800.5	3833.7	3868.5	3938.2	4112.2	4306.8	4446.1	4452.4	4376.4
27.5°	4113.8	4085.3	4110.6	4151.8	4192.9	4370.1	4601.1	4762.5	4765.7	4648.6
30°	4673.9	4593.2	4514.1	4469.8	4488.8	4664.4	4911.2	5090.0	5105.8	4944.5
32.5°	5699.2	5683.4	5404.9	5041.0	4851.1	4980.8	5257.7	5472.9	5482.4	5275.1
35°	7292.5	7273.5	6825.7	6132.7	5514.1	5404.9	5678.6	5933.3	5927.0	5692.8
37.5°	9194.3	9176.9	8586.7	7659.5	6658.0	6045.7	6221.3	6488.7	6528.3	6221.3
40°	10819.3	10754.4	10381.0	9487.0	8176.9	7108.9	6993.4	7170.6	7211.8	6847.9
42.5°	12050.2	11994.8	11805.0	11246.5	10015.5	8681.7	7903.2	7971.2	8017.1	7580.4
45°	12687.9	12675.2	12751.1	12698.9	11888.8	10612.0	9203.8	8920.6	8938.0	8392.1
47.5°	12778.0	12771.7	13118.2	13608.7	13499.5	12789.1	10873.0	10104.1	10042.4	9308.2
50°	12246.4	12233.8	12898.3	13817.6	14575.5	14618.2	12768.6	11437.9	11301.8	10256.0
52.5°	10548.7	10545.5	11637.3	13167.3	14953.6	16219.4	14641.9	12903.0	12675.2	11259.1
55°	8116.8	8175.4	9426.9	11235.4	14263.8	16989.9	16323.8	14529.6	14179.9	12268.6
57.5°	5749.8	5835.2	7072.5	8683.2	12124.6	16534.2	17461.4	16159.3	15782.7	13274.9
60°	3088.5	3164.4	4403.3	6325.7	9020.3	14834.9	18061.1	17573.8	17217.8	14230.5
62.5°	1840.1	1865.4	2378.1	4083.7	6101.1	11333.5	17806.4	18651.3	18358.6	15032.7
65°	1321.2	1325.9	1583.8	2493.6	3704.0	6885.8	16020.0	19167.1	19076.9	15637.1
67.5°	1112.3	1109.1	1216.7	1656.6	2523.6	3449.2	12278.1	18437.7	18820.6	16020.0
70°	954.1	958.8	1085.4	1213.6	1897.1	1952.5	6104.2	16053.3	16869.7	16121.3
72.5°	710.4	726.2	843.3	1106.0	1431.9	1343.3	2107.5	11903.1	13379.3	15189.4
75°	501.6	509.5	593.3	930.3	1068.0	977.8	1075.9	6153.3	8045.6	11645.2
77.5°	386.1	400.3	449.4	650.3	1052.2	686.7	658.2	2129.7	3272.0	7034.6
80°	208.9	234.2	324.4	469.9	738.9	485.7	325.9	848.1	1109.1	3289.4
82.5°	107.6	120.2	226.3	338.6	420.9	424.0	161.4	352.8	457.3	1015.8
85°	42.7	52.2	151.9	186.7	216.8	208.9	72.8	142.4	164.6	281.6
87.5°	9.5	15.8	55.4	42.7	41.1	44.3	17.4	33.2	31.6	33.2
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°
2838.5	0°	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5	2838.5
2857.5	2.5°	2855.9	2849.6	2832.2	2813.2	2791.0	2778.4	2770.5	2768.9	2757.8	2749.9
2920.8	5°	2903.4	2897.1	2863.8	2824.3	2781.6	2748.3	2716.7	2688.2	2647.1	2639.2
3012.6	7.5°	2998.3	2980.9	2927.1	2873.3	2792.6	2696.1	2579.0	2444.5	2324.3	2287.9
3134.4	10°	3115.4	3091.7	3023.6	2928.7	2749.9	2487.3	2204.0	1941.4	1732.5	1674.0
3278.4	12.5°	3248.3	3227.7	3137.6	2961.9	2571.1	2094.9	1661.3	1335.4	1132.9	1082.2
3431.8	15°	3406.5	3376.5	3251.5	2911.3	2251.5	1591.7	1140.8	947.8	875.0	865.5
3607.5	17.5°	3574.2	3525.2	3352.7	2729.3	1821.1	1131.3	881.3	825.9	794.3	784.8
3784.7	20°	3727.7	3664.4	3412.9	2454.0	1360.7	881.3	789.5	753.1	724.7	713.6
3961.9	22.5°	3881.2	3791.0	3412.9	2079.0	1020.5	781.6	724.7	691.4	658.2	644.0
4151.8	25°	4041.0	3920.8	3352.7	1661.3	821.2	716.7	663.0	626.6	598.1	580.7
4332.1	27.5°	4196.1	4029.9	3215.1	1265.8	731.0	659.8	606.0	571.2	544.3	531.6
4528.3	30°	4343.2	4137.5	3022.0	960.4	672.4	604.4	553.8	523.7	496.8	484.2
4783.1	32.5°	4542.6	4273.6	2816.4	787.9	621.8	552.2	506.3	477.8	454.1	444.6
5113.8	35°	4819.5	4474.5	2639.2	773.7	579.1	509.5	463.6	436.7	413.0	405.0
5541.0	37.5°	5211.8	4798.9	2545.8	868.6	544.3	471.5	428.8	400.3	378.2	371.8
6083.7	40°	5696.0	5238.7	2596.4	963.6	520.6	438.3	397.1	368.7	349.7	341.8
6707.1	42.5°	6270.4	5781.4	2876.5	1036.4	504.7	409.8	367.1	335.4	322.8	319.6
7414.3	45°	6930.1	6377.9	3305.3	1113.9	479.4	382.9	337.0	313.3	303.8	302.2
8183.3	47.5°	7680.1	7033.0	3802.1	1210.4	454.1	357.6	313.3	297.5	289.5	286.4
8985.5	50°	8423.8	7692.8	4313.1	1264.2	433.5	333.8	294.3	281.6	275.3	273.7
9833.5	52.5°	9202.2	8371.6	4726.1	1213.6	416.1	314.9	278.5	269.0	262.6	261.1
10615.1	55°	9944.3	8920.6	4797.3	1030.0	381.3	295.9	261.1	256.3	248.4	248.4
11407.8	57.5°	10583.5	9195.9	4294.2	756.3	346.5	267.4	243.7	238.9	232.6	231.0
12123.0	60°	11170.5	9116.8	3314.8	509.5	308.5	238.9	221.5	218.3	212.0	204.1
12744.8	62.5°	11501.2	8768.7	2267.3	332.3	270.6	208.9	196.2	194.6	180.4	164.6
13205.2	65°	11626.2	8053.5	1414.5	242.1	226.3	178.8	169.3	166.1	145.6	128.2
13466.3	67.5°	11517.0	6876.3	713.6	191.4	178.8	148.7	139.2	139.2	125.0	109.2
13450.5	70°	11080.3	5154.9	300.6	153.5	137.7	113.9	113.9	120.2	106.0	88.6
12752.7	72.5°	10132.6	3468.2	159.8	117.1	102.8	80.7	93.4	98.1	83.9	66.5
10437.9	75°	8055.1	2115.4	110.8	87.0	64.9	57.0	71.2	74.4	57.0	44.3
7156.4	77.5°	5509.3	1215.1	74.4	55.4	41.1	33.2	49.0	45.9	30.1	20.6
2759.4	80°	2419.2	506.3	42.7	25.3	15.8	12.7	17.4	12.7	9.5	6.3
378.2	82.5°	283.2	118.7	15.8	9.5	6.3	3.2	1.6	0.0	0.0	0.0
115.5	85°	58.5	14.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
20.6	87.5°	11.1	3.2	1.6	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>
2838.5
2757.8
2636.0
2270.5
1651.8
1068.0
856.0
780.0
707.3
636.1
574.3
531.6
485.7
444.6
405.0
370.2
340.2
319.6
300.6
286.4
273.7
261.1
246.8
229.4
202.5
161.4
126.6
107.6
87.0
66.5
42.7
22.2
6.3
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