

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: P941856

Luminaire Tested: **GALN-SB5C-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941856  
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-SB5C-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

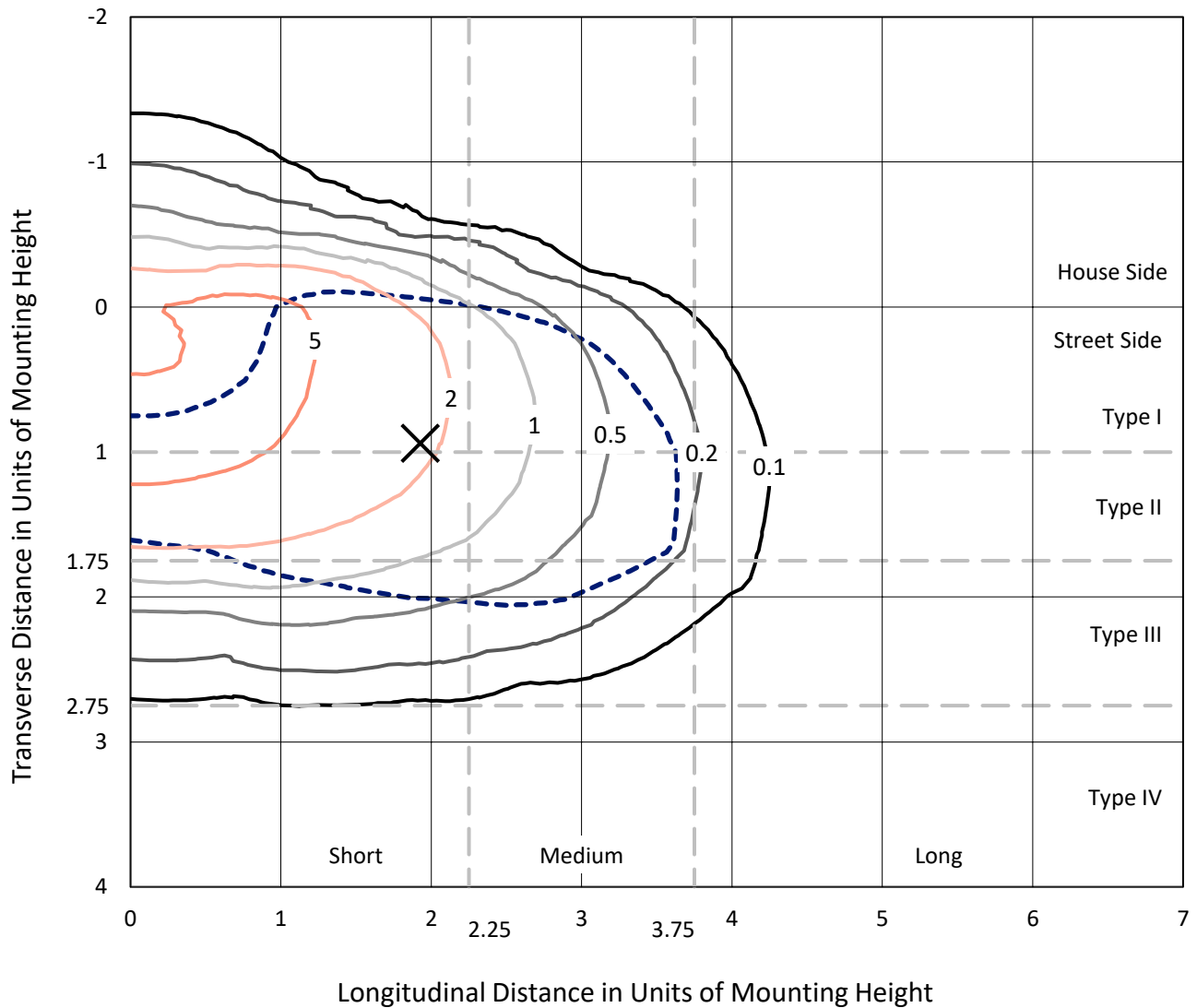
Lumens per Lamp: N/A  
Luminaire Lumens: 26660 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

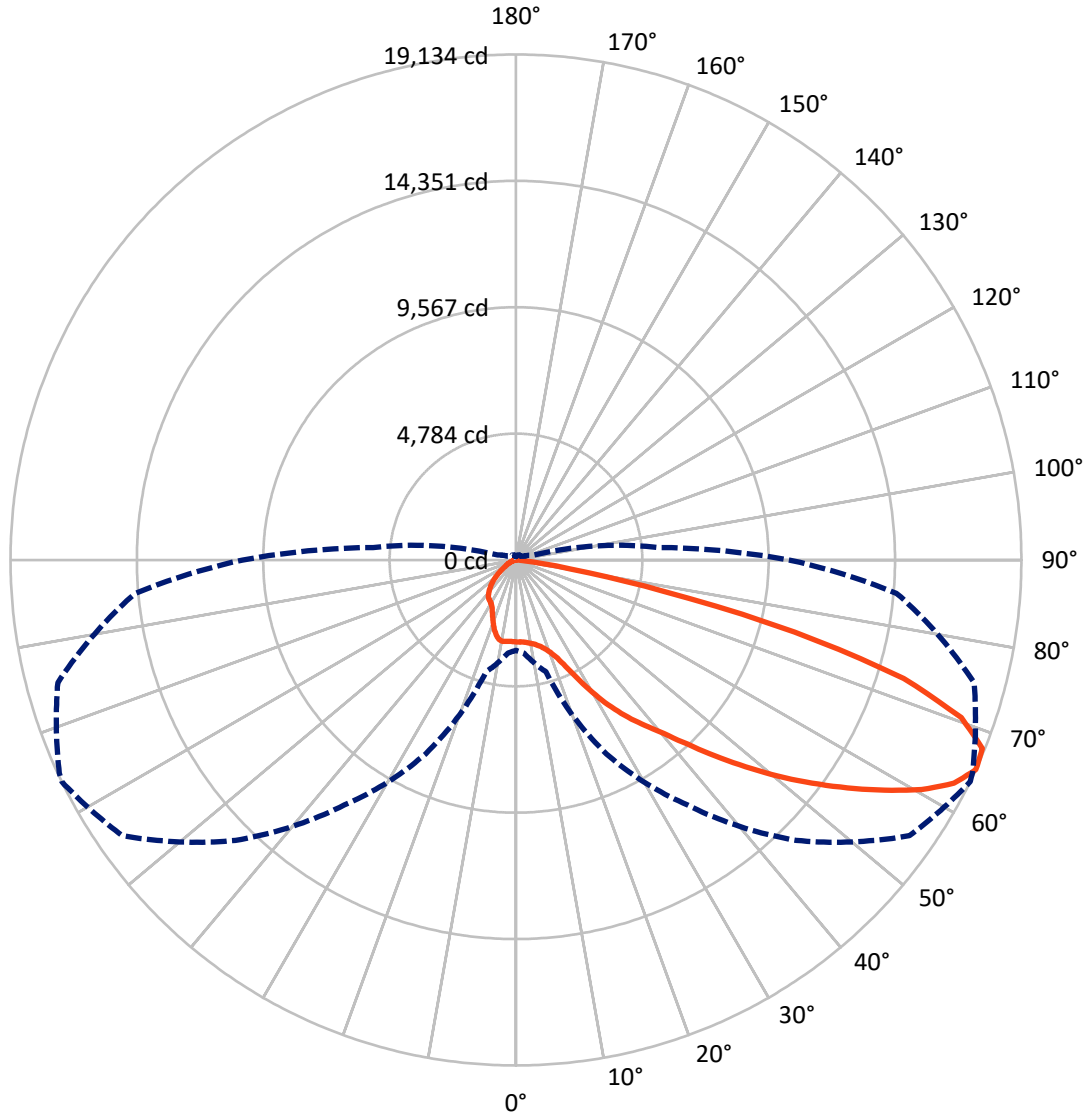
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3565.2	0.0	3565.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	23094.7	0.0	23094.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	26660.0	0.0	26660.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.1
10°-20°	775.9	2.9
20°-30°	1470.3	5.5
30°-40°	2975.3	11.2
40°-50°	5068.4	19.0
50°-60°	6892.6	25.9
60°-70°	6472.5	24.3
70°-80°	2593.2	9.7
80°-90°	125.6	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°	26660.0	100.0
0°-180°	26660.0	100.0

**Coefficient of Utilization**



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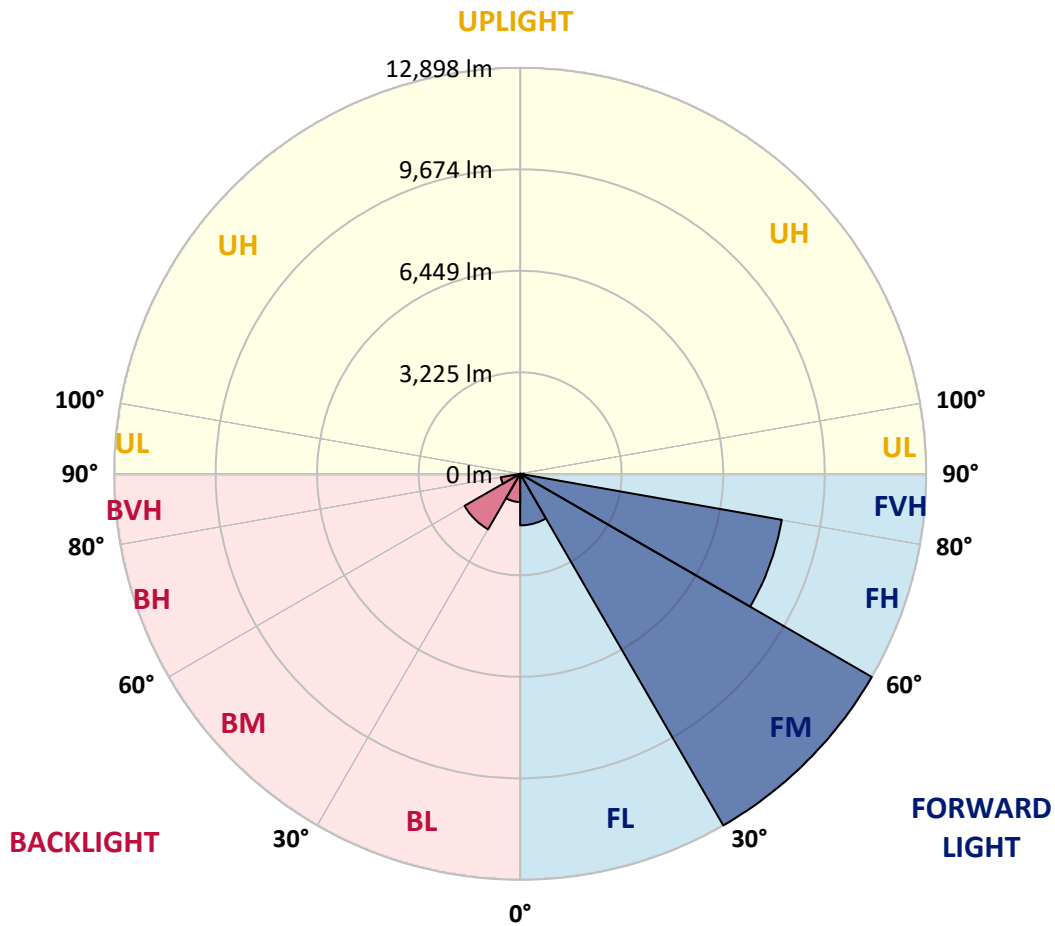
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.2	6.1			
FM (30°-60°)	12898.1	48.4			
FH (60°-80°)	8439.9	31.7			G4/12000
FVH (80°-90°)	119.5	0.4			G2/225
BL (0°-30°)	895.1	3.4	B2/1000		
BM (30°-60°)	2038.2	7.6	B2/2500		
BH (60°-80°)	625.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.1	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°	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8
2.5°	3090.1	3111.6	3106.2	3100.8	3099.0	3102.6	3104.4	3102.6	3102.6	3102.6
5°	3031.1	3049.0	3049.0	3061.5	3079.4	3100.8	3116.9	3120.5	3124.1	3129.4
7.5°	2918.5	2932.8	2943.6	2984.7	3029.3	3086.5	3134.8	3159.8	3163.4	3183.0
10°	2841.7	2859.6	2877.4	2920.3	2984.7	3070.5	3152.7	3213.4	3222.4	3268.8
12.5°	2838.1	2856.0	2879.2	2925.7	3000.8	3091.9	3192.0	3279.6	3295.6	3363.6
15°	2875.6	2897.1	2918.5	2975.7	3056.2	3167.0	3274.2	3383.2	3399.3	3495.8
17.5°	2952.5	2981.1	2997.2	3054.4	3140.2	3263.5	3404.7	3529.8	3544.1	3656.7
20°	3104.4	3138.4	3143.7	3190.2	3274.2	3406.5	3574.4	3729.9	3747.8	3876.5
22.5°	3419.0	3467.2	3424.3	3447.6	3522.6	3654.9	3837.2	4033.8	4058.8	4205.3
25°	3973.0	4040.9	3930.1	3890.8	3923.0	4060.6	4289.3	4537.8	4566.4	4684.3
27.5°	5061.4	4973.8	4805.8	4641.4	4544.9	4623.6	4880.9	5188.3	5224.1	5338.4
30°	6257.1	6180.2	5953.2	5588.7	5359.9	5347.4	5585.1	5928.2	5969.3	6078.4
32.5°	7454.5	7381.2	7134.6	6686.0	6289.2	6092.6	6257.1	6637.8	6659.2	6728.9
35°	8632.3	8557.2	8310.6	7851.3	7363.4	6916.6	6884.4	7313.3	7320.5	7393.7
37.5°	9817.2	9754.7	9492.0	9041.6	8560.8	7944.2	7645.7	7953.1	7962.1	8033.6
40°	10662.6	10689.4	10508.9	10160.4	9747.5	9073.7	8500.0	8634.1	8580.5	8700.2
42.5°	11388.2	11441.8	11284.5	11109.4	10869.9	10276.5	9558.1	9534.8	9449.1	9513.4
45°	12015.5	12060.2	11919.0	11877.9	11872.5	11456.1	10714.4	10575.0	10455.3	10442.8
47.5°	12246.1	12331.9	12392.6	12530.2	12798.3	12623.2	11910.1	11693.8	11559.8	11461.5
50°	12333.6	12424.8	12632.1	13032.4	13666.9	13742.0	13100.4	12857.3	12692.9	12514.1
52.5°	12215.7	12378.3	12657.1	13330.9	14251.3	14639.2	14242.4	14029.7	13842.1	13550.7
55°	11520.5	11683.1	12253.2	13327.3	14542.6	15268.3	15321.9	15227.2	15016.3	14556.9
57.5°	10054.9	10296.2	11198.7	12873.4	14537.3	15809.8	16379.9	16447.8	16211.9	15554.2
60°	8024.6	8351.7	9452.6	11867.2	14088.7	16102.9	17307.5	17647.1	17396.8	16537.2
62.5°	5599.4	5978.3	7020.2	10290.8	13062.8	15892.0	17984.8	18612.2	18422.7	17416.5
65°	3415.4	3536.9	4376.9	8097.9	11318.5	15009.1	18193.9	19134.0	19071.5	17954.5
67.5°	2275.1	2377.0	2618.3	5552.9	8786.0	13245.1	17693.5	19042.9	19060.8	17866.9
70°	1370.8	1458.4	1615.7	3229.5	5694.1	10483.9	16144.0	17881.2	17984.8	16696.3
72.5°	564.8	623.7	766.7	1463.7	2948.9	6653.8	12855.5	15352.3	15593.5	14038.6
75°	319.9	350.3	450.4	734.5	1279.7	3100.8	7786.9	10898.5	11254.2	9676.0
77.5°	212.7	227.0	291.3	475.4	720.3	1058.0	3327.8	5678.0	6357.2	5284.8
80°	143.0	155.5	200.2	318.1	468.3	454.0	1059.8	2103.6	2587.9	1815.8
82.5°	96.5	98.3	143.0	209.1	296.7	219.8	312.8	654.1	822.1	525.4
85°	55.4	53.6	105.4	121.5	132.3	91.1	94.7	196.6	257.4	221.6
87.5°	7.1	10.7	41.1	32.2	17.9	19.7	19.7	34.0	50.0	53.6
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°
3100.8	0°	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8	3100.8
3104.4	2.5°	3104.4	3102.6	3097.3	3091.9	3079.4	3072.2	3075.8	3072.2	3070.5	3072.2
3127.6	5°	3127.6	3122.3	3108.0	3090.1	3065.1	3034.7	3015.0	2986.5	2959.6	2943.6
3190.2	7.5°	3190.2	3184.8	3165.2	3115.1	3034.7	2907.8	2791.6	2689.8	2612.9	2568.2
3290.3	10°	3290.3	3281.3	3251.0	3140.2	2929.3	2652.2	2421.7	2230.5	2105.4	2046.4
3408.2	12.5°	3408.2	3397.5	3343.9	3116.9	2729.1	2296.6	1978.5	1765.8	1649.6	1597.8
3544.1	15°	3547.6	3533.3	3427.9	3006.1	2437.8	1903.4	1612.1	1453.0	1378.0	1331.5
3717.4	17.5°	3721.0	3696.0	3490.4	2839.9	2121.4	1603.1	1386.9	1267.1	1201.0	1156.3
3944.4	20°	3946.2	3905.1	3540.5	2641.5	1830.1	1413.7	1235.0	1134.9	1084.8	1045.5
4266.1	22.5°	4260.7	4201.8	3601.3	2427.1	1624.6	1283.2	1122.4	1049.1	1008.0	963.3
4714.7	25°	4650.4	4580.7	3676.3	2228.7	1483.4	1170.6	1040.2	979.4	931.1	879.3
5302.7	27.5°	5195.5	5070.4	3765.7	2066.0	1361.9	1074.1	965.1	897.2	841.8	798.9
5969.3	30°	5803.1	5597.6	3844.3	1967.7	1251.1	984.8	866.8	798.9	747.1	716.7
6568.1	32.5°	6378.6	6099.8	3896.1	1924.8	1151.0	882.9	759.6	686.3	647.0	638.0
7154.3	35°	6921.9	6553.8	3890.8	1883.7	1061.6	781.0	654.1	579.1	548.7	554.0
7785.2	37.5°	7547.4	7038.1	3853.3	1819.4	988.3	688.1	563.0	496.8	470.0	471.8
8551.9	40°	8274.9	7597.5	3830.0	1697.9	907.9	602.3	487.9	434.3	414.6	407.5
9359.7	42.5°	9050.5	8139.0	3833.6	1560.2	807.8	525.4	436.1	391.4	373.5	368.2
10258.7	45°	9829.7	8655.5	3839.0	1417.3	702.4	466.5	398.6	361.0	350.3	343.1
11170.2	47.5°	10562.5	9095.2	3738.9	1263.6	598.7	421.8	368.2	343.1	334.2	325.3
12085.2	50°	11245.2	9388.3	3497.6	1084.8	516.5	386.0	344.9	327.1	318.1	309.2
12914.5	52.5°	11776.0	9434.8	3099.0	900.8	459.3	359.2	330.6	314.6	303.8	294.9
13584.7	55°	12011.9	9143.4	2532.5	729.2	414.6	336.0	316.3	300.3	287.7	278.8
14111.9	57.5°	11951.2	8530.4	1974.9	586.2	371.7	312.8	298.5	287.7	273.4	259.1
14539.1	60°	11652.7	7710.1	1488.8	487.9	332.4	287.7	278.8	269.9	250.2	228.8
14703.5	62.5°	11136.2	6678.9	1061.6	403.9	289.5	259.1	255.6	248.4	219.8	180.5
14460.4	65°	10346.2	5426.0	714.9	336.0	248.4	227.0	228.8	216.3	178.7	134.0
13570.4	67.5°	9191.7	3967.6	457.5	275.2	207.3	189.4	191.2	184.1	151.9	114.4
11883.3	70°	7720.8	2627.2	298.5	209.1	166.2	146.6	157.3	159.1	128.7	92.9
9120.2	72.5°	5660.1	1551.3	209.1	155.5	121.5	101.9	128.7	132.3	103.7	69.7
5486.8	75°	3225.9	736.3	157.3	112.6	75.1	71.5	100.1	100.1	71.5	46.5
2375.2	77.5°	1354.7	307.4	110.8	73.3	42.9	41.1	67.9	62.6	35.7	21.4
579.1	80°	391.4	137.6	59.0	35.7	17.9	16.1	26.8	19.7	8.9	3.6
219.8	82.5°	153.7	60.8	23.2	14.3	7.1	7.1	3.6	0.0	0.0	0.0
125.1	85°	91.1	25.0	10.7	5.4	1.8	0.0	0.0	0.0	0.0	0.0
26.8	87.5°	23.2	5.4	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>
3100.8
3079.4
2947.1
2570.0
2041.0
1592.4
1333.3
1152.8
1038.4
956.2
874.0
790.0
711.3
643.4
554.0
479.0
405.7
366.4
343.1
325.3
309.2
293.1
277.0
257.4
225.2
176.9
130.5
109.0
89.4
66.1
42.9
21.4
3.6
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