

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: P951128

Luminaire Tested: **GALN-SB5B-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

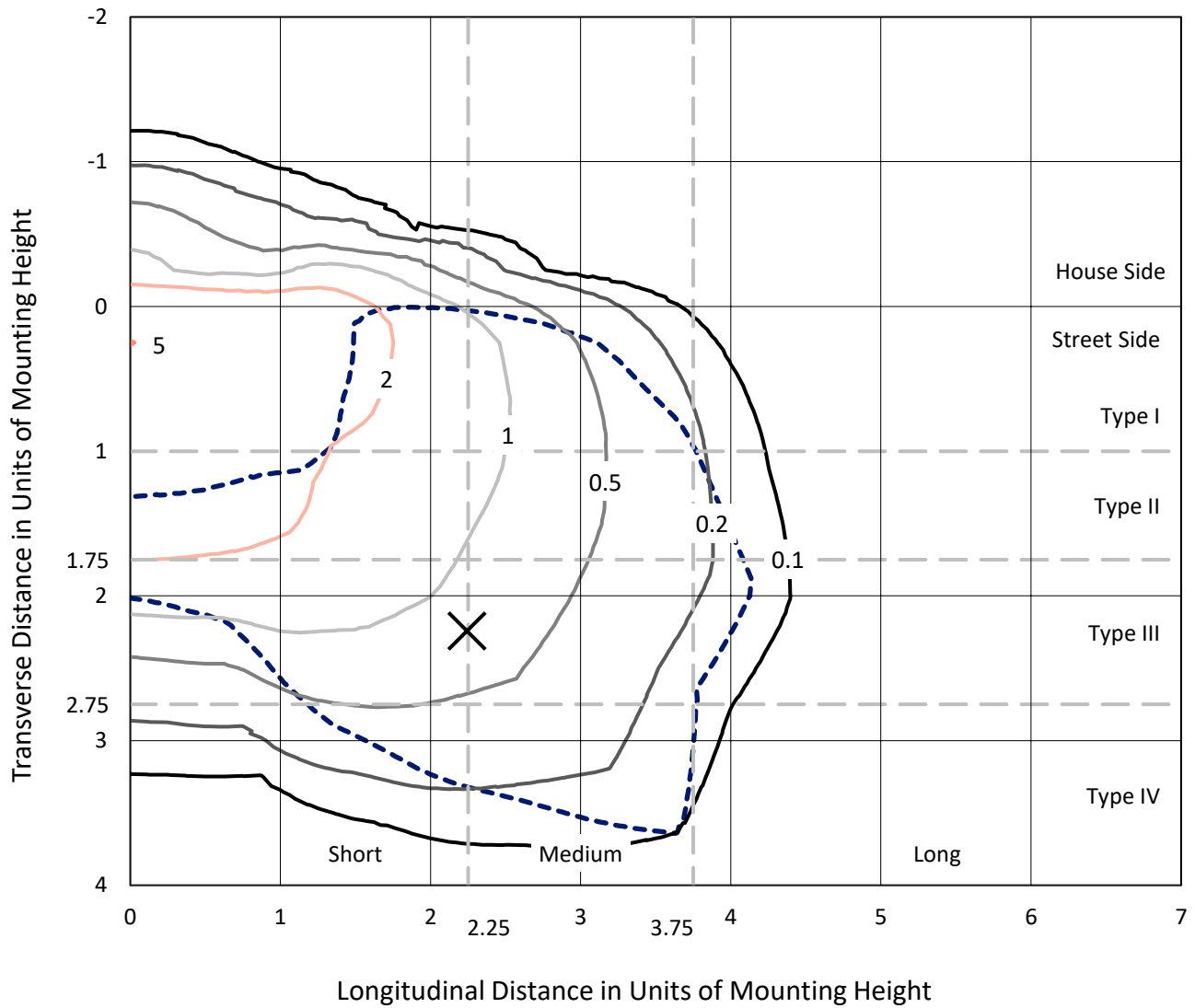
Lumens per Lamp: N/A  
Luminaire Lumens: 20958 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

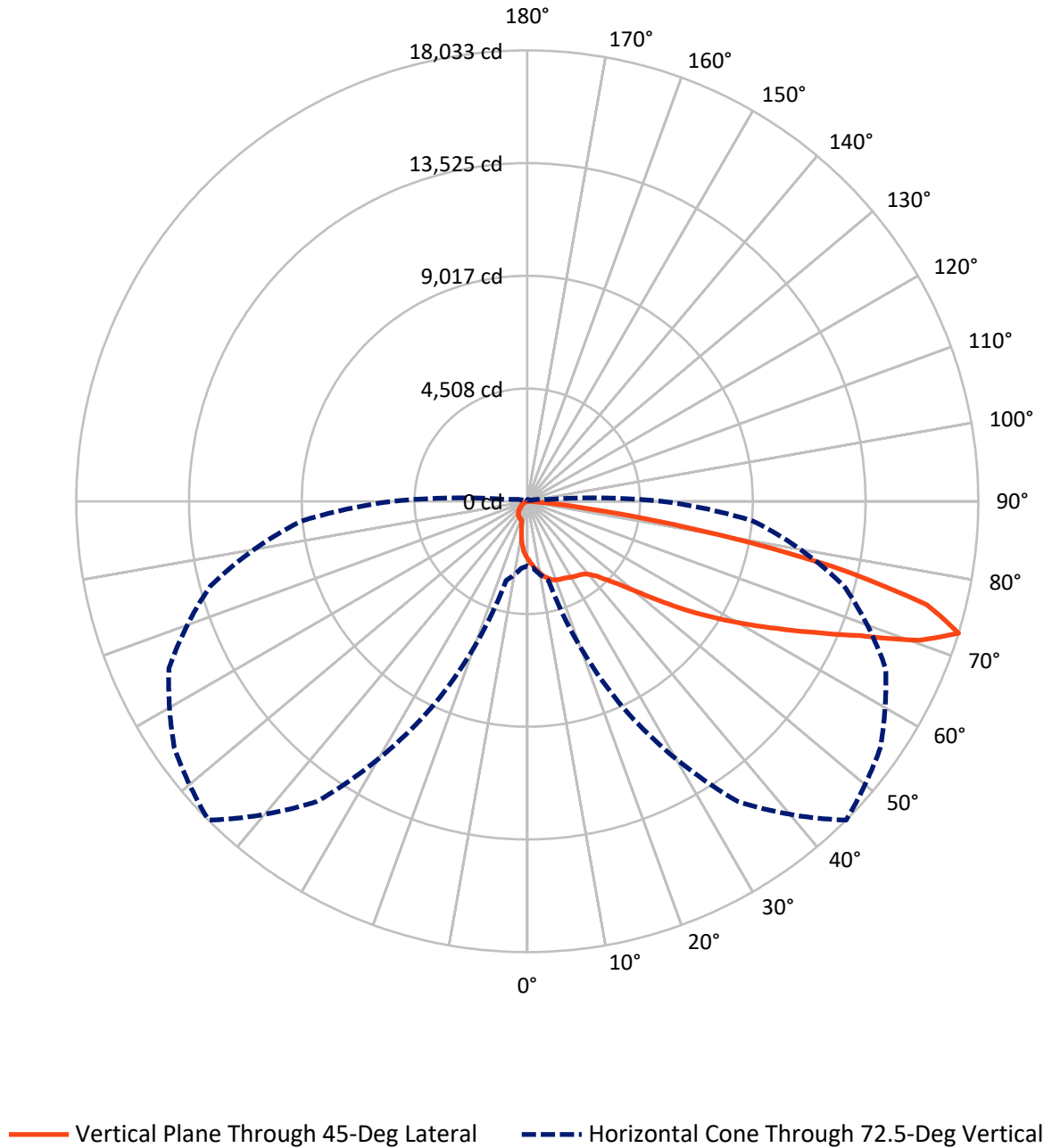
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2202.1	0.0	2202.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	18755.9	0.0	18755.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20958.0	0.0	20958.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.3	1.0
10°-20°	632.2	3.0
20°-30°	1038.2	5.0
30°-40°	1472.5	7.0
40°-50°	2433.8	11.6
50°-60°	4372.1	20.9
60°-70°	6070.9	29.0
70°-80°	4403.6	21.0
80°-90°	318.4	1.5
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°	20958.0	100.0
0°-180°	20958.0	100.0

**Coefficient of Utilization**



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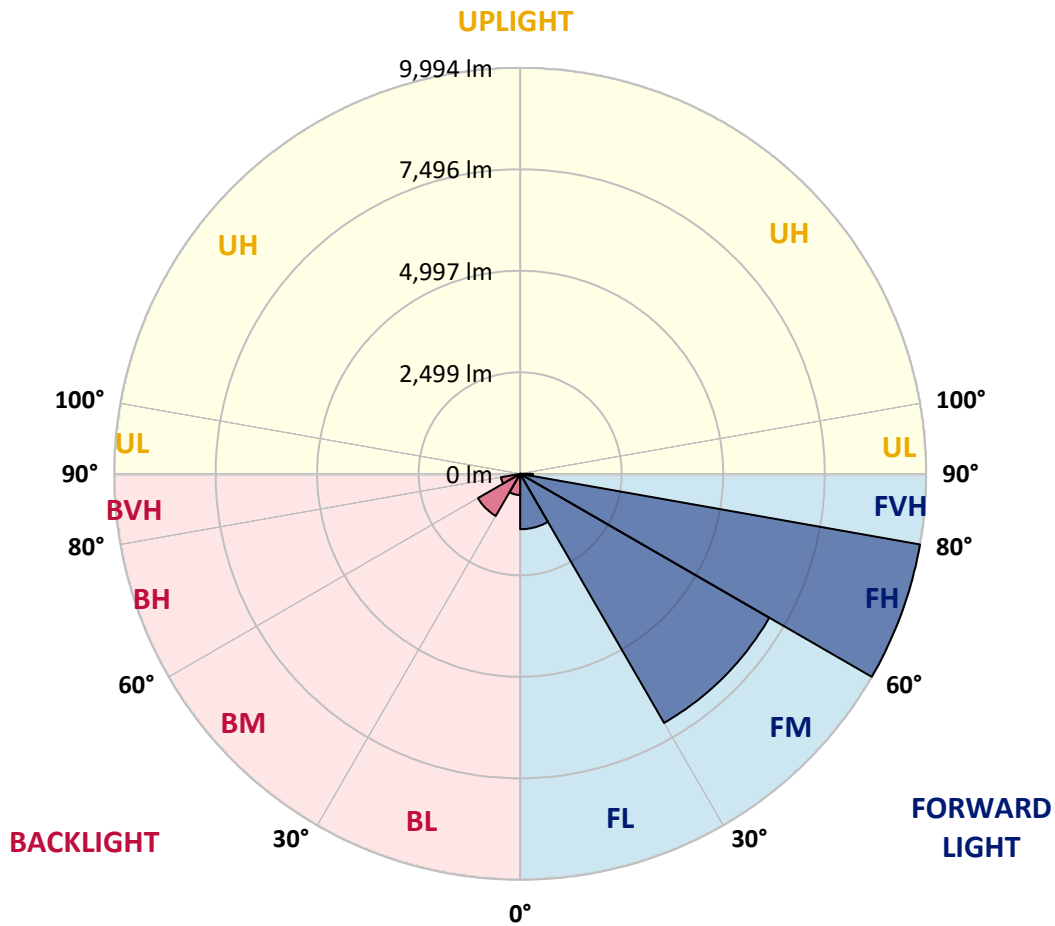
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.2	6.5			
FM (30°-60°)	7080.7	33.8			
FH (60°-80°)	9994.3	47.7			G4/12000
FVH (80°-90°)	315.7	1.5			G3/500
BL (0°-30°)	521.6	2.5	B2/1000		
BM (30°-60°)	1197.6	5.7	B2/2500		
BH (60°-80°)	480.2	2.3	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0
2.5°	2507.7	2512.0	2509.1	2492.0	2463.4	2447.6	2439.0	2410.4	2391.8	2358.9
5°	2738.0	2755.2	2745.2	2710.8	2656.5	2617.9	2606.4	2547.8	2494.8	2433.3
7.5°	2982.6	2991.2	2972.6	2928.3	2855.3	2789.5	2779.5	2698.0	2613.6	2519.2
10°	3194.4	3204.4	3175.8	3111.4	3028.4	2946.9	2932.6	2842.5	2742.3	2626.4
12.5°	3371.7	3381.8	3344.6	3267.3	3175.8	3091.4	3077.1	2982.6	2872.5	2743.7
15°	3506.2	3524.8	3474.7	3391.8	3293.1	3208.7	3201.5	3108.5	3001.2	2858.2
17.5°	3584.9	3603.5	3556.3	3456.1	3371.7	3300.2	3291.6	3214.4	3114.3	2976.9
20°	3597.8	3614.9	3564.9	3477.6	3407.5	3350.3	3346.0	3290.2	3217.3	3085.6
22.5°	3559.1	3580.6	3534.8	3464.7	3416.1	3386.1	3380.3	3348.9	3307.4	3195.8
25°	3519.1	3536.3	3501.9	3440.4	3414.7	3411.8	3416.1	3410.4	3401.8	3307.4
27.5°	3516.2	3534.8	3496.2	3437.6	3423.2	3453.3	3457.6	3484.8	3491.9	3408.9
30°	3540.6	3553.4	3516.2	3454.7	3447.6	3516.2	3517.7	3566.3	3577.7	3494.8
32.5°	3593.5	3607.8	3570.6	3480.5	3470.5	3566.3	3570.6	3635.0	3653.6	3586.3
35°	3717.9	3735.1	3692.2	3552.0	3516.2	3613.5	3626.4	3702.2	3739.4	3683.6
37.5°	4028.4	3978.3	3919.6	3696.5	3620.7	3687.9	3709.4	3798.0	3863.8	3799.5
40°	4799.4	4642.1	4458.9	3942.5	3803.8	3846.7	3863.8	3952.5	4042.7	3979.7
42.5°	5956.7	5770.7	5476.1	4509.0	4079.9	4101.3	4114.2	4191.4	4318.8	4268.7
45°	6988.1	6920.9	6620.5	5476.1	4596.3	4490.4	4506.2	4546.2	4733.6	4715.0
47.5°	7780.6	7742.0	7510.3	6586.1	5468.9	4966.8	5011.1	5029.7	5300.1	5365.9
50°	8390.0	8375.7	8168.3	7573.2	6609.0	5669.2	5684.9	5644.9	6049.7	6212.8
52.5°	8965.1	9013.7	8860.7	8490.2	7826.4	6589.0	6586.1	6397.3	6943.8	7189.8
55°	9484.4	9501.6	9517.3	9425.7	9050.9	7636.1	7609.0	7300.0	7980.9	8235.5
57.5°	9972.2	9979.3	10119.5	10306.9	10325.5	8760.5	8710.5	8340.0	9113.9	9295.6
60°	10299.8	10332.7	10628.8	11149.5	11377.0	9920.7	9893.5	9515.9	10266.9	10351.3
62.5°	9827.7	10028.0	10774.7	11807.6	12369.8	11206.7	11193.9	10839.1	11480.0	11411.3
65°	7955.2	8294.2	9607.4	12252.5	13343.9	12643.0	12661.6	12283.9	12726.0	12502.8
67.5°	5564.7	5922.4	7475.9	12288.2	14432.6	14329.6	14436.9	13844.6	14049.2	13548.5
70°	3848.1	4032.7	5044.0	11518.6	15280.9	16652.7	16649.9	15761.5	15365.3	14024.9
72.5°	2587.8	2683.7	3275.9	9138.2	14657.2	18033.2	17950.2	17226.4	15808.7	13116.5
75°	1091.5	1161.6	1516.4	5135.6	11595.8	16498.3	16273.7	15223.7	14046.3	10328.4
77.5°	346.2	376.2	598.0	1838.2	6387.3	12401.2	12163.8	9507.3	9414.3	5181.4
80°	164.5	191.7	336.2	738.2	2513.4	6744.9	6712.0	4313.0	4049.8	1399.1
82.5°	71.5	84.4	186.0	394.8	1124.4	2406.1	2454.8	1467.7	1214.5	530.7
85°	22.9	30.0	85.8	181.7	474.9	598.0	590.8	349.0	489.2	289.0
87.5°	0.0	0.0	28.6	41.5	48.6	34.3	38.6	30.0	135.9	80.1
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°
2296.0	0°	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0
2324.6	2.5°	2307.4	2284.5	2244.5	2207.3	2174.4	2141.5	2121.5	2092.9	2090.0	2090.0
2361.8	5°	2323.2	2286.0	2214.5	2138.6	2051.4	1968.4	1885.4	1805.3	1779.6	1761.0
2421.9	7.5°	2369.0	2310.3	2197.3	2052.8	1886.9	1705.2	1577.9	1440.5	1387.6	1359.0
2502.0	10°	2434.8	2354.6	2183.0	1929.8	1660.8	1413.4	1231.7	1082.9	1025.7	1001.4
2589.3	12.5°	2507.7	2409.0	2157.2	1776.7	1413.4	1117.2	939.9	871.2	862.6	862.6
2693.7	15°	2595.0	2474.8	2112.9	1596.5	1154.4	884.1	821.1	824.0	832.6	838.3
2795.2	17.5°	2685.1	2544.9	2042.8	1394.8	925.6	795.4	796.8	801.1	808.2	814.0
2905.4	20°	2782.4	2615.0	1949.8	1180.2	793.9	769.6	773.9	778.2	783.9	786.8
3008.4	22.5°	2886.8	2680.8	1839.7	969.9	749.6	748.2	749.6	753.9	761.0	761.0
3128.6	25°	2998.4	2753.8	1713.8	816.8	726.7	726.7	729.6	732.4	738.2	738.2
3244.4	27.5°	3112.8	2821.0	1580.7	736.7	706.7	705.2	705.2	709.5	712.4	713.8
3358.9	30°	3238.7	2899.7	1447.7	719.6	690.9	683.8	679.5	682.4	685.2	686.7
3479.0	32.5°	3367.5	2975.5	1329.0	726.7	675.2	662.3	648.0	645.2	645.2	650.9
3603.5	35°	3510.5	3058.5	1237.4	751.0	666.6	630.9	608.0	595.1	596.5	605.1
3752.3	37.5°	3682.2	3158.6	1170.2	772.5	660.9	595.1	557.9	542.2	532.2	542.2
3956.8	40°	3906.8	3305.9	1121.5	789.7	653.8	553.6	503.5	477.8	459.2	464.9
4274.4	42.5°	4237.2	3537.7	1102.9	791.1	638.0	505.0	447.8	413.4	386.2	387.7
4752.2	45°	4700.7	3903.9	1198.8	772.5	603.7	452.0	389.1	343.3	326.2	321.9
5466.0	47.5°	5335.9	4437.5	1420.5	733.9	553.6	400.5	331.9	293.3	280.4	273.2
6403.0	50°	6187.0	5122.7	1666.6	690.9	503.5	351.9	284.7	260.4	251.8	244.6
7514.6	52.5°	7174.1	5817.9	1868.3	648.0	453.5	309.0	254.6	240.3	233.2	227.5
8587.4	55°	8079.6	6297.2	1856.8	602.3	404.8	274.7	233.2	224.6	216.0	210.3
9511.6	57.5°	8643.2	6364.4	1530.7	552.2	349.0	247.5	213.1	207.4	197.4	190.3
10311.2	60°	8902.2	5981.0	1072.9	486.4	293.3	221.7	191.7	188.8	176.0	165.9
11068.0	62.5°	8949.4	5268.6	715.3	404.8	244.6	197.4	170.2	165.9	148.8	131.6
11683.1	65°	8757.7	4250.1	495.0	316.1	208.9	171.7	145.9	137.3	118.7	101.6
11829.0	67.5°	8151.1	2984.1	344.8	227.5	177.4	135.9	115.9	113.0	98.7	84.4
11085.1	70°	7039.6	1700.9	230.3	170.2	140.2	93.0	91.6	94.4	80.1	68.7
9056.7	72.5°	5397.4	778.2	143.1	124.5	95.8	62.9	73.0	74.4	61.5	51.5
5650.6	75°	3177.2	333.3	90.1	80.1	48.6	41.5	52.9	54.4	41.5	32.9
2065.7	77.5°	1081.5	125.9	57.2	47.2	24.3	22.9	34.3	34.3	22.9	12.9
414.9	80°	246.1	47.2	28.6	18.6	11.4	10.0	11.4	10.0	5.7	1.4
127.3	82.5°	70.1	18.6	11.4	7.2	4.3	4.3	1.4	0.0	0.0	0.0
44.3	85°	20.0	8.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
15.7	87.5°	8.6	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>
2296.0
2097.2
1769.6
1363.3
1001.4
862.6
838.3
814.0
788.2
763.9
739.6
715.3
689.5
655.2
609.4
539.3
462.1
382.0
316.1
268.9
243.2
226.0
207.4
188.8
163.1
123.0
95.8
80.1
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