

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: P955454

Luminaire Tested: **GALN-SB8B-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955454  
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-SB8B-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

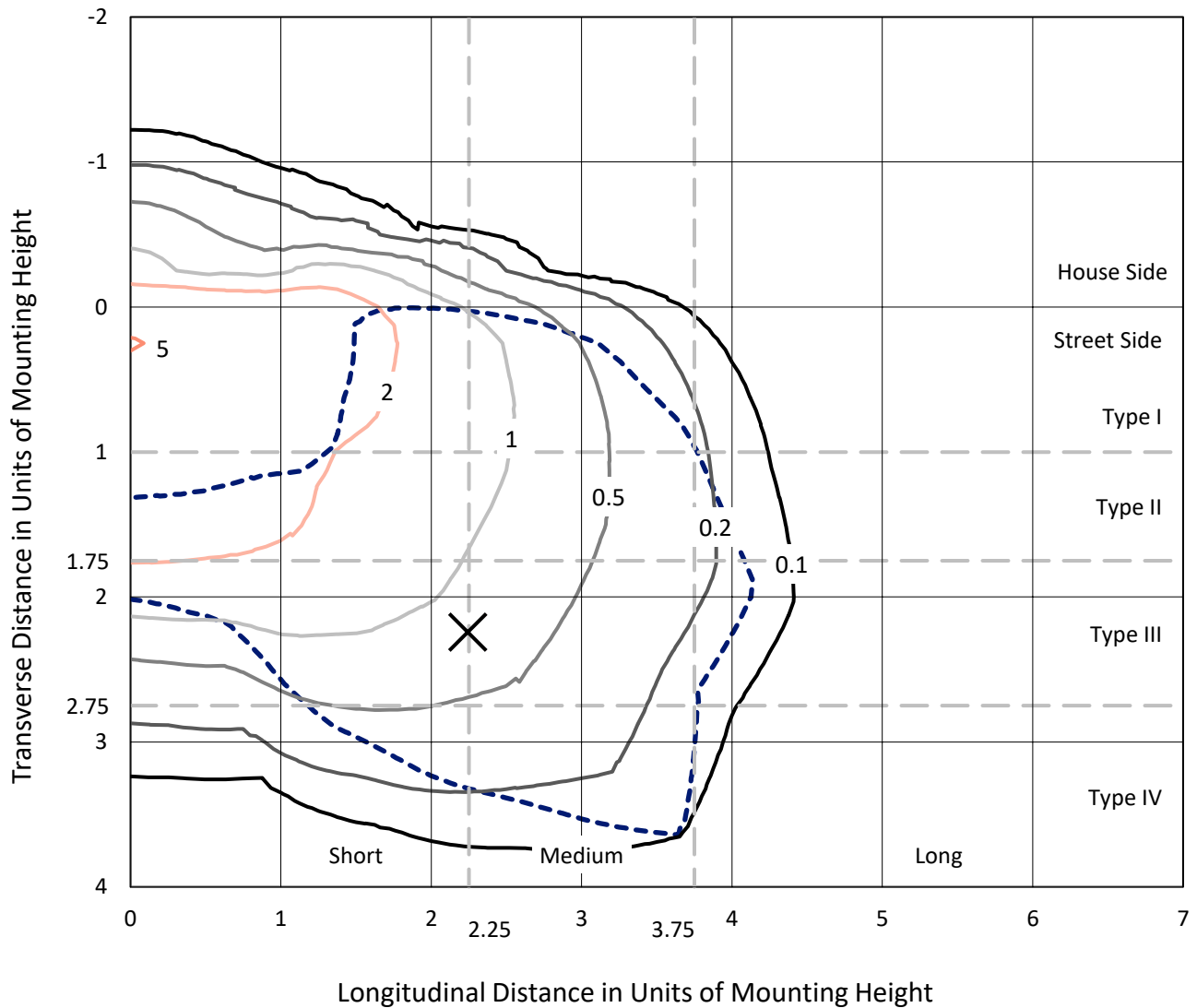
Lumens per Lamp: N/A  
Luminaire Lumens: 21349 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

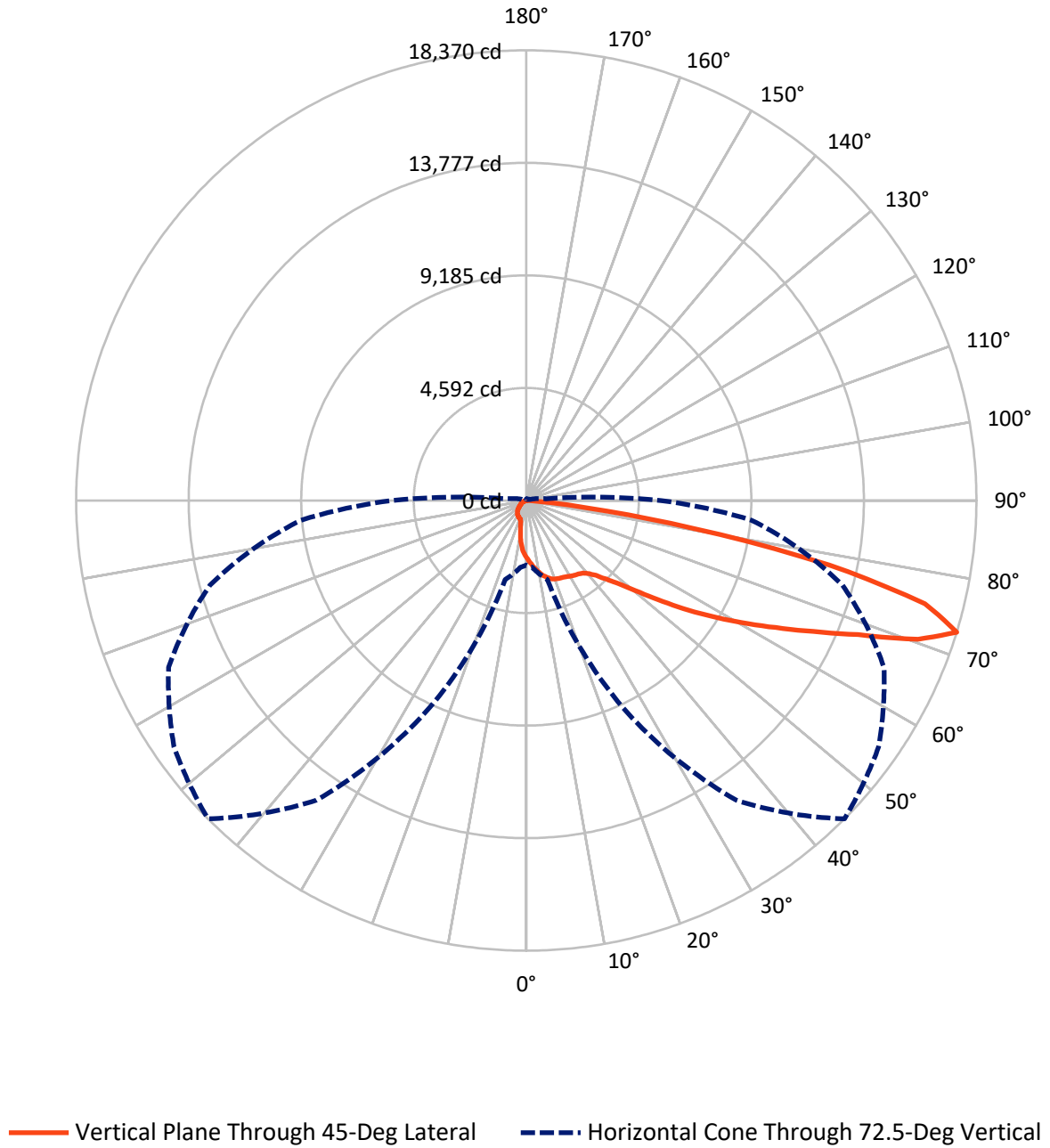
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2243.2	0.0	2243.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19105.8	0.0	19105.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	21349.0	0.0	21349.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.4	1.0
10°-20°	644.0	3.0
20°-30°	1057.6	5.0
30°-40°	1499.9	7.0
40°-50°	2479.2	11.6
50°-60°	4453.6	20.9
60°-70°	6184.1	29.0
70°-80°	4485.8	21.0
80°-90°	324.3	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°	21349.0	100.0
0°-180°	21349.0	100.0

**Coefficient of Utilization**



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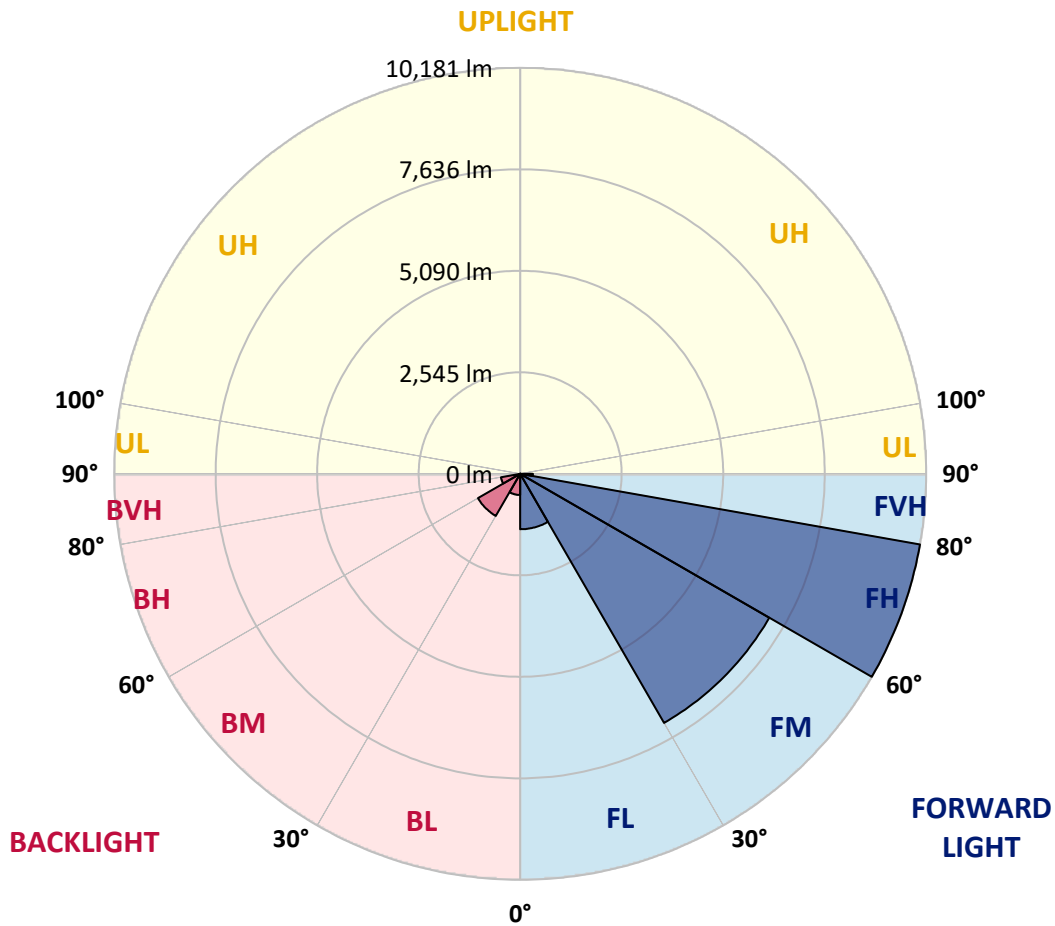
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.7	6.5			
FM (30°-60°)	7212.8	33.8			
FH (60°-80°)	10180.7	47.7			G4/12000
FVH (80°-90°)	321.6	1.5			G3/500
BL (0°-30°)	531.3	2.5	B2/1000		
BM (30°-60°)	1220.0	5.7	B2/2500		
BH (60°-80°)	489.2	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°	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8
2.5°	2554.5	2558.9	2556.0	2538.5	2509.3	2493.3	2484.5	2455.4	2436.5	2402.9
5°	2789.1	2806.6	2796.4	2761.4	2706.0	2666.7	2655.0	2595.3	2541.4	2478.7
7.5°	3038.3	3047.0	3028.1	2982.9	2908.6	2841.6	2831.4	2748.3	2662.3	2566.2
10°	3254.0	3264.2	3235.0	3169.4	3084.9	3001.9	2987.3	2895.5	2793.5	2675.4
12.5°	3434.7	3444.9	3407.0	3328.3	3235.0	3149.0	3134.5	3038.3	2926.1	2794.9
15°	3571.6	3590.6	3539.6	3455.1	3354.5	3268.5	3261.2	3166.5	3057.2	2911.5
17.5°	3651.8	3670.7	3622.6	3520.6	3434.7	3361.8	3353.0	3274.4	3172.4	3032.5
20°	3664.9	3682.4	3631.4	3542.5	3471.1	3412.8	3408.4	3351.6	3277.3	3143.2
22.5°	3625.5	3647.4	3600.8	3529.4	3479.8	3449.2	3443.4	3411.3	3369.1	3255.4
25°	3584.7	3602.2	3567.3	3504.6	3478.4	3475.5	3479.8	3474.0	3465.3	3369.1
27.5°	3581.8	3600.8	3561.4	3501.7	3487.1	3517.7	3522.1	3549.8	3557.1	3472.5
30°	3606.6	3619.7	3581.8	3519.2	3511.9	3581.8	3583.3	3632.8	3644.5	3560.0
32.5°	3660.5	3675.1	3637.2	3545.4	3535.2	3632.8	3637.2	3702.8	3721.7	3653.2
35°	3787.3	3804.8	3761.1	3618.3	3581.8	3680.9	3694.0	3771.3	3809.2	3752.3
37.5°	4103.5	4052.5	3992.8	3765.4	3688.2	3756.7	3778.6	3868.9	3935.9	3870.4
40°	4889.0	4728.7	4542.1	4016.1	3874.7	3918.4	3935.9	4026.3	4118.1	4054.0
42.5°	6067.8	5878.4	5578.2	4593.1	4156.0	4177.8	4190.9	4269.6	4399.3	4348.3
45°	7118.5	7050.0	6744.0	5578.2	4682.0	4574.2	4590.2	4631.0	4821.9	4803.0
47.5°	7925.8	7886.4	7650.4	6709.0	5570.9	5059.4	5104.6	5123.6	5399.0	5466.0
50°	8546.6	8532.0	8320.7	7714.5	6732.3	5774.9	5791.0	5750.2	6162.6	6328.7
52.5°	9132.4	9181.9	9026.0	8648.6	7972.4	6711.9	6709.0	6516.7	7073.3	7324.0
55°	9661.3	9678.8	9694.8	9601.6	9219.8	7778.6	7750.9	7436.2	8129.8	8389.2
57.5°	10158.2	10165.5	10308.3	10499.2	10518.2	8924.0	8873.0	8495.6	9283.9	9469.0
60°	10491.9	10525.5	10827.1	11357.5	11589.2	10105.8	10078.1	9693.4	10458.4	10544.4
62.5°	10011.1	10215.1	10975.7	12027.8	12600.5	11415.8	11402.7	11041.3	11694.1	11624.2
65°	8103.6	8448.9	9786.6	12481.0	13592.9	12878.9	12897.8	12513.1	12963.4	12736.0
67.5°	5668.6	6032.9	7615.4	12517.5	14701.8	14596.9	14706.2	14102.9	14311.3	13801.3
70°	3919.9	4107.9	5138.1	11733.5	15566.0	16963.4	16960.5	16055.6	15651.9	14286.5
72.5°	2636.1	2733.7	3337.0	9308.7	14930.6	18369.6	18285.1	17547.8	16103.7	13361.2
75°	1111.9	1183.3	1544.6	5231.4	11812.2	16806.0	16577.3	15507.7	14308.4	10521.1
77.5°	352.6	383.2	609.1	1872.5	6506.5	12632.6	12390.7	9684.6	9589.9	5278.0
80°	167.6	195.3	342.4	751.9	2560.3	6870.8	6837.2	4393.5	4125.4	1425.2
82.5°	72.9	86.0	189.4	402.2	1145.4	2451.0	2500.6	1495.1	1237.2	540.6
85°	23.3	30.6	87.4	185.1	483.8	609.1	601.8	355.6	498.4	294.4
87.5°	0.0	0.0	29.1	42.3	49.5	35.0	39.3	30.6	138.4	81.6
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°
2338.8	0°	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8
2368.0	2.5°	2350.5	2327.2	2286.4	2248.5	2215.0	2181.4	2161.0	2131.9	2129.0	2129.0
2405.9	5°	2366.5	2328.6	2255.8	2178.5	2089.6	2005.1	1920.6	1839.0	1812.8	1793.8
2467.1	7.5°	2413.1	2353.4	2238.3	2091.1	1922.1	1737.0	1607.3	1467.4	1413.5	1384.4
2548.7	10°	2480.2	2398.6	2223.7	1965.8	1691.8	1439.7	1254.7	1103.1	1044.8	1020.0
2637.6	12.5°	2554.5	2453.9	2197.5	1809.9	1439.7	1138.1	957.4	887.4	878.7	878.7
2743.9	15°	2643.4	2521.0	2152.3	1626.3	1176.0	900.6	836.4	839.4	848.1	853.9
2847.4	17.5°	2735.2	2592.4	2080.9	1420.8	942.8	810.2	811.7	816.0	823.3	829.2
2959.6	20°	2834.3	2663.8	1986.2	1202.2	808.8	784.0	788.4	792.7	798.6	801.5
3064.5	22.5°	2940.7	2730.8	1874.0	988.0	763.6	762.1	763.6	768.0	775.2	775.2
3186.9	25°	3054.3	2805.1	1745.7	832.1	740.3	740.3	743.2	746.1	751.9	751.9
3305.0	27.5°	3170.9	2873.6	1610.2	750.5	719.9	718.4	718.4	722.8	725.7	727.1
3421.5	30°	3299.1	2953.8	1474.7	733.0	703.8	696.5	692.2	695.1	698.0	699.5
3543.9	32.5°	3430.3	3031.0	1353.8	740.3	687.8	674.7	660.1	657.2	657.2	663.0
3670.7	35°	3576.0	3115.5	1260.5	765.0	679.1	642.6	619.3	606.2	607.7	616.4
3822.3	37.5°	3750.9	3217.5	1192.0	786.9	673.2	606.2	568.3	552.3	542.1	552.3
4030.7	40°	3979.7	3367.6	1142.5	804.4	665.9	563.9	512.9	486.7	467.8	473.6
4354.2	42.5°	4316.3	3603.7	1123.5	805.8	649.9	514.4	456.1	421.1	393.4	394.9
4840.9	45°	4788.4	3976.7	1221.1	786.9	614.9	460.5	396.4	349.7	332.2	327.9
5568.0	47.5°	5435.4	4520.3	1447.0	747.6	563.9	408.0	338.1	298.7	285.6	278.3
6522.5	50°	6302.5	5218.3	1697.7	703.8	512.9	358.5	290.0	265.2	256.5	249.2
7654.7	52.5°	7307.9	5926.5	1903.1	660.1	461.9	314.8	259.4	244.8	237.5	231.7
8747.7	55°	8230.3	6414.7	1891.5	613.5	412.4	279.8	237.5	228.8	220.0	214.2
9689.0	57.5°	8804.5	6483.1	1559.2	562.5	355.6	252.1	217.1	211.3	201.1	193.8
10503.6	60°	9068.2	6092.6	1092.9	495.5	298.7	225.9	195.3	192.4	179.2	169.0
11274.5	62.5°	9116.3	5366.9	728.6	412.4	249.2	201.1	173.4	169.0	151.6	134.1
11901.1	65°	8921.1	4329.4	504.2	322.0	212.8	174.9	148.6	139.9	120.9	103.5
12049.7	67.5°	8303.2	3039.7	351.2	231.7	180.7	138.4	118.0	115.1	100.5	86.0
11292.0	70°	7170.9	1732.6	234.6	173.4	142.8	94.7	93.3	96.2	81.6	69.9
9225.6	72.5°	5498.1	792.7	145.7	126.8	97.6	64.1	74.3	75.8	62.7	52.5
5756.0	75°	3236.5	339.5	91.8	81.6	49.5	42.3	53.9	55.4	42.3	33.5
2104.2	77.5°	1101.7	128.2	58.3	48.1	24.8	23.3	35.0	35.0	23.3	13.1
422.6	80°	250.6	48.1	29.1	18.9	11.7	10.2	11.7	10.2	5.8	1.5
129.7	82.5°	71.4	18.9	11.7	7.3	4.4	4.4	1.5	0.0	0.0	0.0
45.2	85°	20.4	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
16.0	87.5°	8.7	1.5	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>
2338.8
2136.3
1802.6
1388.7
1020.0
878.7
853.9
829.2
802.9
778.2
753.4
728.6
702.4
667.4
620.8
549.4
470.7
389.1
322.0
274.0
247.7
230.2
211.3
192.4
166.1
125.3
97.6
81.6
64.1
46.6
29.1
10.2
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