

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: P942868

Luminaire Tested: **GALN-SB7A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

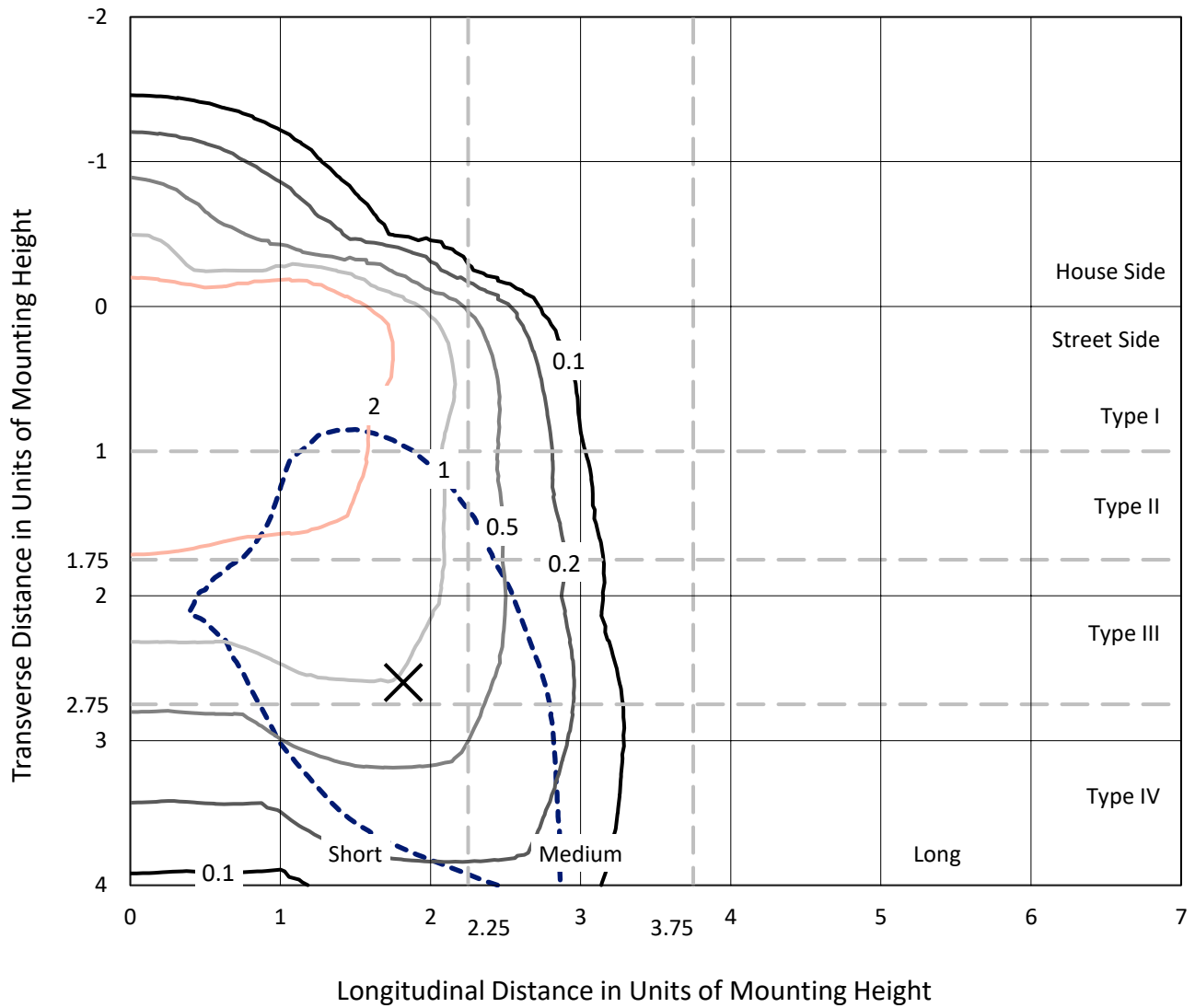
Lumens per Lamp: N/A  
Luminaire Lumens: 21003 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

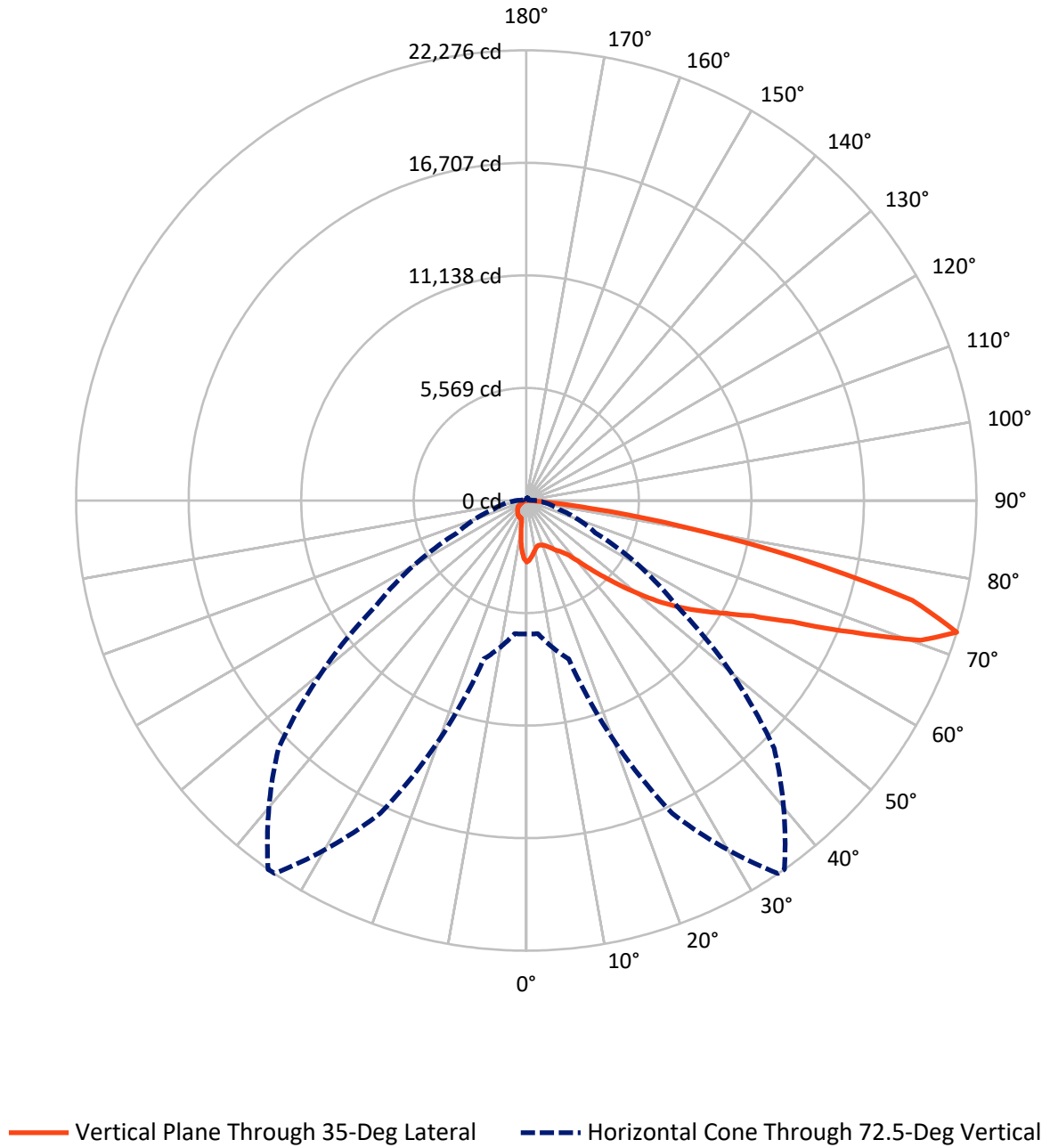
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2363.8	0.0	2363.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	18639.2	0.0	18639.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	21003.0	0.0	21003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.1	1.2
10°-20°	585.2	2.8
20°-30°	950.6	4.5
30°-40°	1586.1	7.6
40°-50°	3000.9	14.3
50°-60°	4768.3	22.7
60°-70°	5898.8	28.1
70°-80°	3666.7	17.5
80°-90°	296.3	1.4
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°	21003.0	100.0
0°-180°	21003.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942868

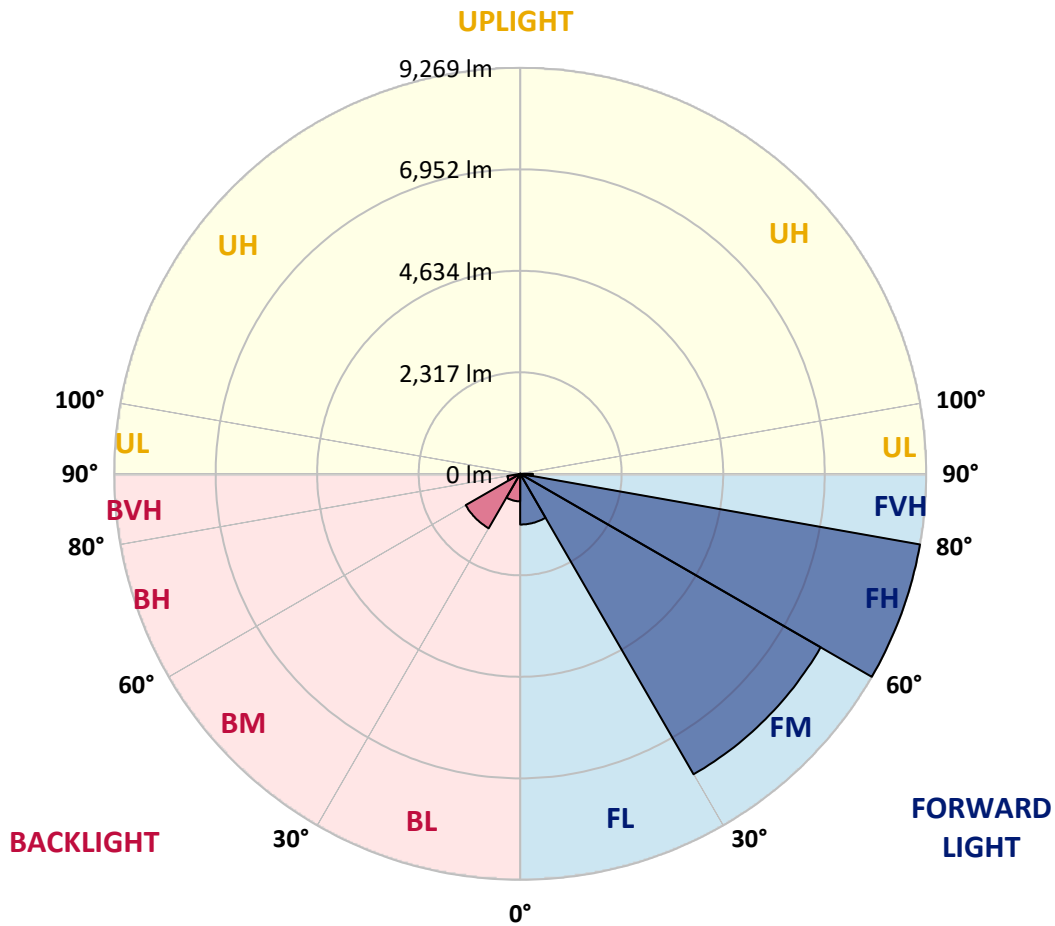
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.8	5.5			
FM (30°-60°)	7920.2	37.7			
FH (60°-80°)	9268.9	44.1			G4/12000
FVH (80°-90°)	292.3	1.4			G3/500
BL (0°-30°)	628.1	3.0	B2/1000		
BM (30°-60°)	1435.0	6.8	B2/2500		
BH (60°-80°)	296.6	1.4	B1/500		G1/500
BVH (80°-90°)	4.0	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°	34°	35°	45°	55°	65°	75°
0°	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0
2.5°	2908.6	2933.2	2937.9	2945.5	2945.5	2954.8	2970.2	2991.7	3027.1	3045.6
5°	2680.8	2699.3	2722.4	2740.9	2776.3	2780.9	2840.9	2899.4	2980.9	3042.5
7.5°	2451.5	2473.1	2503.9	2548.5	2594.7	2608.5	2699.3	2797.8	2927.1	3042.5
10°	2290.0	2291.5	2319.2	2363.8	2437.7	2454.6	2565.4	2705.5	2867.1	3024.0
12.5°	2199.2	2209.9	2222.2	2256.1	2326.9	2337.7	2456.2	2620.8	2807.0	3013.3
15°	2199.2	2206.9	2214.5	2231.5	2288.4	2297.6	2402.3	2567.0	2776.3	3017.9
17.5°	2222.2	2234.6	2228.4	2248.4	2308.4	2314.6	2406.9	2551.6	2774.7	3047.1
20°	2277.6	2286.9	2274.6	2286.9	2346.9	2359.2	2454.6	2580.8	2800.9	3097.9
22.5°	2365.4	2370.0	2340.7	2350.0	2411.5	2426.9	2537.7	2663.9	2864.0	3179.5
25°	2476.2	2485.4	2440.8	2451.5	2510.0	2528.5	2656.2	2788.6	2964.0	3291.8
27.5°	2603.9	2608.5	2570.0	2568.5	2643.9	2670.1	2799.3	2942.5	3097.9	3433.4
30°	2750.1	2764.0	2727.0	2720.9	2816.3	2837.8	2965.6	3131.8	3294.9	3645.8
32.5°	2865.5	2876.3	2854.7	2870.1	2967.1	2984.0	3167.2	3399.5	3604.2	3947.4
35°	3031.7	3037.9	2988.6	3016.3	3127.1	3170.2	3442.6	3775.0	3993.6	4326.0
37.5°	3633.5	3633.5	3424.2	3287.2	3393.4	3431.9	3819.7	4247.5	4473.7	4833.8
40°	4466.0	4452.2	4145.9	3865.8	3852.0	3927.4	4356.8	4843.1	5093.9	5443.3
42.5°	5354.0	5332.5	4915.4	4638.4	4592.2	4618.4	4977.0	5577.1	5832.6	6186.6
45°	6141.9	6135.8	5754.1	5381.7	5298.6	5381.7	5751.0	6435.9	6619.0	6991.4
47.5°	6802.1	6802.1	6523.6	6280.4	6237.4	6286.6	6799.1	7388.5	7371.6	7848.6
50°	7562.4	7556.2	7291.5	7186.9	7231.5	7300.8	8005.6	8391.9	8150.3	8690.4
52.5°	8094.9	8131.8	8041.0	8024.1	8251.8	8371.9	9230.6	9373.7	8847.4	9489.2
55°	8516.5	8559.6	8664.3	8782.8	9221.4	9378.3	10417.1	10304.8	9430.7	10181.7
57.5°	9113.6	9052.1	9213.7	9447.6	10157.1	10346.3	11566.7	11183.5	9900.1	10743.4
60°	9838.5	9847.7	9875.4	10170.9	11091.2	11334.4	12699.4	12014.6	10201.7	11088.1
62.5°	10709.5	10723.4	10780.3	11234.3	12345.4	12574.7	13905.9	12694.8	10340.2	10991.2
65°	10649.5	10708.0	11343.6	12896.4	14252.2	14478.4	15314.1	13171.9	10130.9	10104.7
67.5°	9701.5	9796.9	10860.4	14881.6	17127.0	17379.3	17016.1	13265.7	9227.5	7857.9
70°	8458.1	8491.9	9770.8	16666.8	20455.7	20711.2	18539.7	12233.1	7002.2	4382.9
72.5°	6605.2	6612.9	8113.3	17080.8	22262.4	22276.3	17343.9	9081.3	3765.8	1683.6
75°	4718.4	4672.2	5434.0	13852.1	19586.2	19743.2	13002.6	4259.8	1438.9	795.6
77.5°	2530.0	2580.8	3074.8	8214.9	13530.4	13798.2	7094.5	1228.1	732.5	541.7
80°	781.8	824.9	1260.4	3761.2	7664.0	7825.5	2630.1	546.3	510.9	386.3
82.5°	246.2	255.5	587.9	1580.5	3181.0	3254.9	761.8	309.3	349.3	255.5
85°	70.8	72.3	261.6	589.4	786.4	801.8	213.9	120.0	200.1	158.5
87.5°	7.7	24.6	98.5	98.5	69.3	67.7	23.1	26.2	56.9	20.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3044.0	0°	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0	3044.0
3057.9	2.5°	3050.2	3051.7	3031.7	2997.9	2960.9	2930.2	2891.7	2860.9	2839.4	2833.2
3085.6	5°	3071.7	3061.0	3004.0	2900.9	2777.8	2671.6	2553.1	2459.2	2397.7	2371.5
3114.8	7.5°	3104.1	3073.3	2948.6	2745.5	2510.0	2300.7	2088.4	1923.7	1819.0	1766.7
3142.5	10°	3131.8	3070.2	2856.3	2520.8	2160.7	1843.7	1557.4	1358.9	1248.1	1195.8
3174.8	12.5°	3157.9	3068.7	2736.2	2254.6	1766.7	1378.9	1112.7	1014.2	983.4	972.6
3227.2	15°	3207.2	3073.3	2585.4	1949.8	1374.3	1041.9	944.9	943.4	949.5	946.5
3307.2	17.5°	3274.9	3077.9	2414.6	1626.7	1060.3	918.8	914.1	928.0	937.2	932.6
3407.2	20°	3362.6	3096.4	2233.0	1306.6	911.1	888.0	898.7	911.1	918.8	911.1
3541.1	22.5°	3485.7	3128.7	2034.5	1049.6	863.3	869.5	878.7	892.6	900.3	889.5
3711.9	25°	3636.5	3179.5	1839.0	912.6	840.3	848.0	861.8	877.2	886.4	875.7
3927.4	27.5°	3832.0	3261.0	1659.0	881.8	817.2	821.8	841.8	864.9	877.2	863.3
4233.6	30°	4115.1	3394.9	1503.6	895.7	803.3	792.6	820.3	852.6	866.4	854.1
4650.7	32.5°	4490.6	3584.2	1408.1	917.2	797.2	758.7	784.9	826.4	849.5	841.8
5195.5	35°	4983.1	3872.0	1371.2	941.8	792.6	723.3	741.8	786.4	826.4	834.1
5881.9	37.5°	5580.2	4272.1	1382.0	952.6	778.7	694.1	703.3	741.8	794.1	818.7
6654.4	40°	6258.9	4738.4	1443.5	941.8	763.3	669.4	671.0	700.2	746.4	783.3
7485.4	42.5°	6959.1	5283.2	1557.4	901.8	749.5	647.9	643.3	663.3	694.1	720.2
8314.9	45°	7625.5	5843.4	1669.8	846.4	732.5	626.4	615.6	623.3	629.4	640.2
9122.9	47.5°	8207.2	6237.4	1637.4	795.6	709.5	601.7	583.3	580.2	561.7	560.2
9844.6	50°	8608.9	6323.5	1454.3	744.9	675.6	574.0	544.8	526.3	494.0	478.6
10384.8	52.5°	8736.6	5983.4	1188.1	694.1	620.2	537.1	495.5	466.3	426.3	412.4
10695.7	55°	8567.3	5317.1	949.5	632.5	543.2	487.8	441.7	403.2	370.9	354.0
10729.5	57.5°	8153.3	4469.1	751.0	560.2	461.7	432.4	386.3	347.8	320.1	303.2
10354.0	60°	7467.0	3548.8	594.0	474.0	394.0	372.4	324.7	300.1	275.5	255.5
9384.5	62.5°	6425.1	2533.1	466.3	375.5	329.3	304.7	277.0	258.5	229.3	201.6
7640.9	65°	5013.9	1549.7	360.1	275.5	264.7	252.4	235.5	218.5	183.1	155.4
4984.7	67.5°	3162.5	734.1	257.0	207.8	209.3	203.1	195.4	181.6	155.4	130.8
2233.0	70°	1392.7	355.5	169.3	158.5	155.4	155.4	161.6	157.0	132.3	109.3
775.6	72.5°	474.0	190.8	126.2	120.0	112.3	110.8	135.4	130.8	106.2	84.6
386.3	75°	247.8	127.7	92.3	86.2	67.7	81.6	107.7	101.6	75.4	55.4
255.5	77.5°	161.6	90.8	63.1	55.4	38.5	53.9	80.0	70.8	44.6	27.7
167.7	80°	101.6	60.0	36.9	26.2	18.5	29.2	43.1	30.8	16.9	6.2
98.5	82.5°	53.9	30.8	13.9	9.2	7.7	9.2	10.8	7.7	3.1	0.0
50.8	85°	21.5	10.8	4.6	3.1	1.5	0.0	3.1	1.5	0.0	0.0
9.2	87.5°	7.7	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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180°
3044.0
2844.0
2380.8
1774.4
1197.3
969.5
944.9
931.1
909.5
888.0
874.1
863.3
852.6
841.8
834.1
824.9
795.6
731.0
646.4
558.6
480.2
410.9
354.0
300.1
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197.0
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