

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: P942148

Luminaire Tested: **GALN-SB6A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942148
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-SB6A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 20596 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

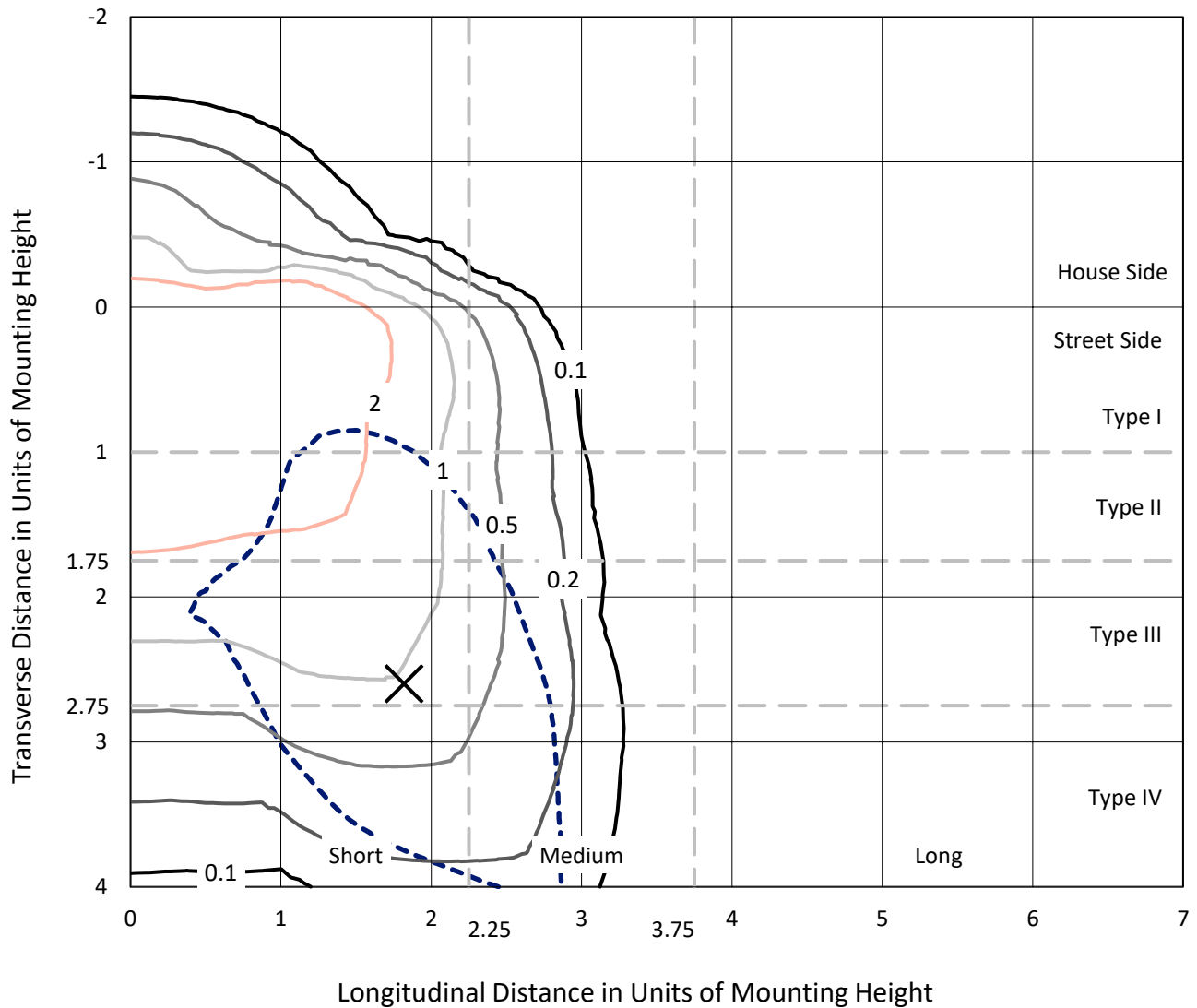
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

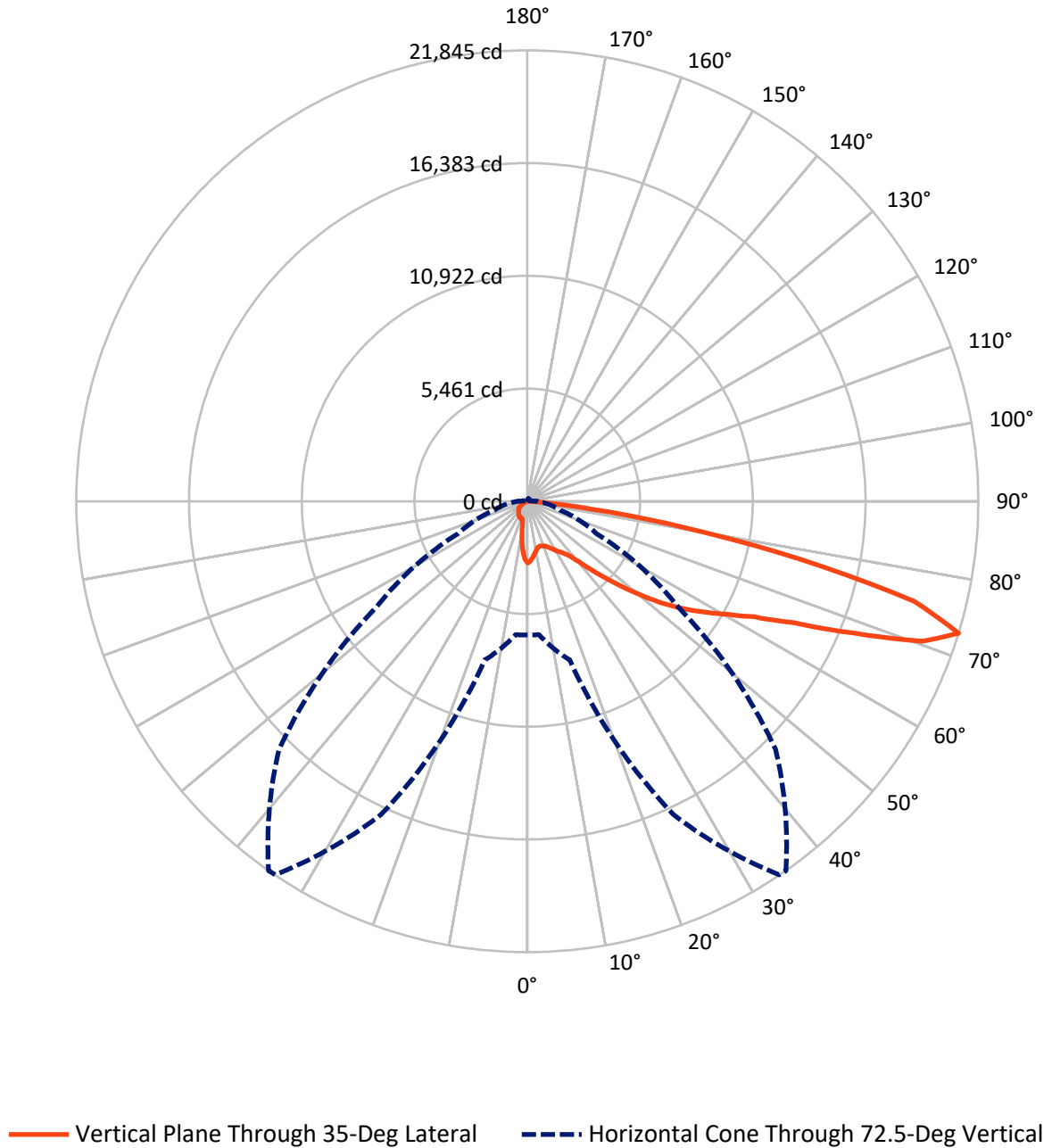
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2318.0	0.0	2318.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18278.0	0.0	18278.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	20596.0	0.0	20596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.2
10°-20°	573.8	2.8
20°-30°	932.2	4.5
30°-40°	1555.3	7.6
40°-50°	2942.7	14.3
50°-60°	4675.9	22.7
60°-70°	5784.5	28.1
70°-80°	3595.7	17.5
80°-90°	290.6	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°	20596.0	100.0
0°-180°	20596.0	100.0

Coefficient of Utilization



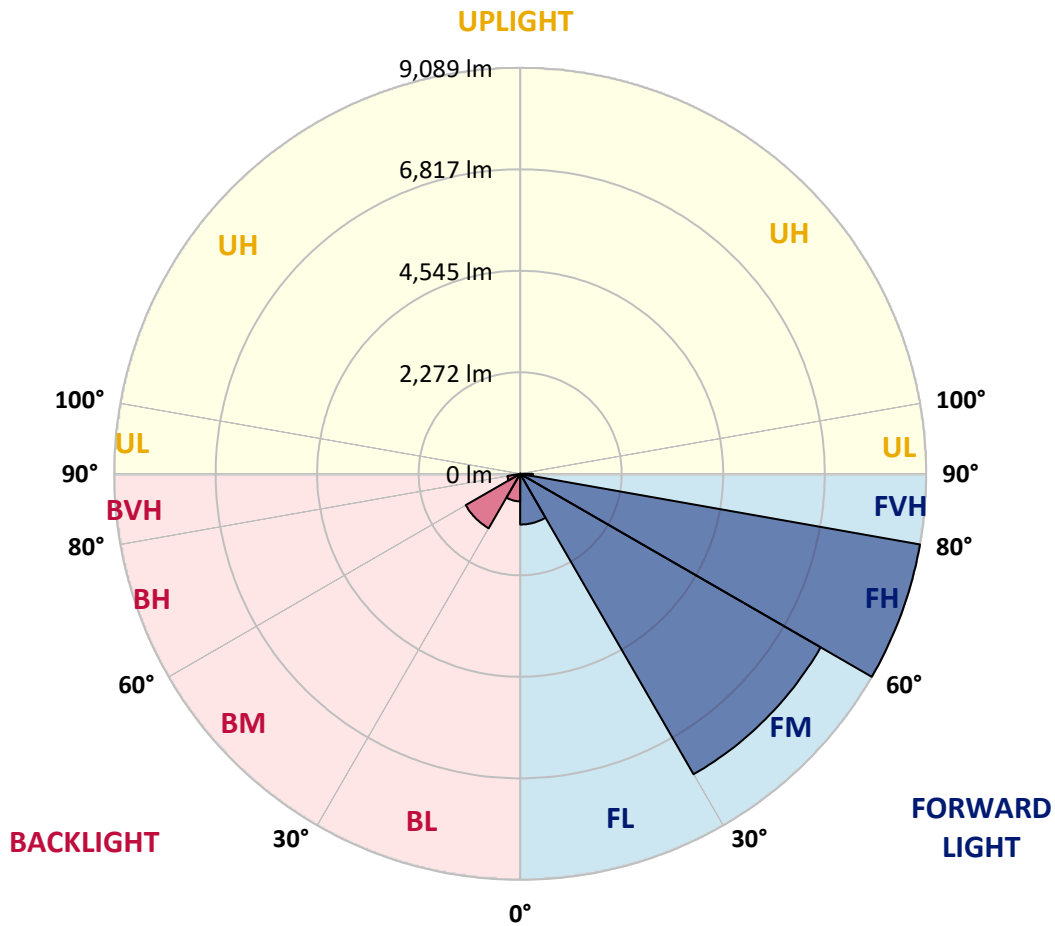
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.4	5.5			
FM (30°-60°)	7766.8	37.7			
FH (60°-80°)	9089.3	44.1			G4/12000
FVH (80°-90°)	286.6	1.4			G3/500
BL (0°-30°)	615.9	3.0	B2/1000		
BM (30°-60°)	1407.2	6.8	B2/2500		
BH (60°-80°)	290.9	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°	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1
2.5°	2852.2	2876.4	2880.9	2888.5	2888.5	2897.5	2912.6	2933.7	2968.5	2986.6
5°	2628.9	2647.0	2669.6	2687.8	2722.5	2727.0	2785.8	2843.2	2923.2	2983.5
7.5°	2404.0	2425.2	2455.3	2499.1	2544.4	2558.0	2647.0	2743.6	2870.4	2983.5
10°	2245.6	2247.1	2274.3	2318.0	2390.5	2407.1	2515.7	2653.0	2811.5	2965.4
12.5°	2156.5	2167.1	2179.2	2212.4	2281.8	2292.4	2408.6	2570.0	2752.6	2954.9
15°	2156.5	2164.1	2171.6	2188.2	2244.1	2253.1	2355.7	2517.2	2722.5	2959.4
17.5°	2179.2	2191.3	2185.2	2204.8	2263.7	2269.7	2360.3	2502.1	2721.0	2988.1
20°	2233.5	2242.6	2230.5	2242.6	2301.4	2313.5	2407.1	2530.8	2746.6	3037.9
22.5°	2319.5	2324.1	2295.4	2304.4	2364.8	2379.9	2488.5	2612.3	2808.5	3117.9
25°	2428.2	2437.2	2393.5	2404.0	2461.4	2479.5	2604.8	2734.5	2906.6	3228.0
27.5°	2553.4	2558.0	2520.2	2518.7	2592.7	2618.3	2745.1	2885.4	3037.9	3366.9
30°	2696.8	2710.4	2674.2	2668.1	2761.7	2782.8	2908.1	3071.1	3231.0	3575.1
32.5°	2810.0	2820.6	2799.4	2814.5	2909.6	2926.2	3105.8	3333.7	3534.4	3870.9
35°	2973.0	2979.0	2930.7	2957.9	3066.5	3108.8	3375.9	3701.9	3916.2	4242.2
37.5°	3563.0	3563.0	3357.8	3223.5	3327.6	3365.4	3745.7	4165.2	4387.0	4740.2
40°	4379.5	4365.9	4065.6	3790.9	3777.3	3851.3	4272.3	4749.2	4995.2	5337.8
42.5°	5250.2	5229.1	4820.1	4548.5	4503.2	4528.9	4880.5	5469.1	5719.6	6066.7
45°	6022.9	6016.9	5642.6	5277.4	5195.9	5277.4	5639.6	6311.2	6490.8	6856.0
47.5°	6670.3	6670.3	6397.2	6158.7	6116.5	6164.8	6667.3	7245.3	7228.7	7696.5
50°	7415.8	7409.8	7150.2	7047.6	7091.4	7159.3	7850.5	8229.3	7992.3	8522.0
52.5°	7938.0	7974.2	7885.2	7868.6	8091.9	8209.6	9051.7	9192.1	8676.0	9305.3
55°	8351.5	8393.8	8496.4	8612.6	9042.7	9196.6	10215.3	10105.1	9247.9	9984.4
57.5°	8937.0	8876.7	9035.1	9264.5	9960.2	10145.9	11342.6	10966.8	9708.2	10535.2
60°	9647.8	9656.9	9684.1	9973.8	10876.3	11114.7	12453.3	11781.7	10004.0	10873.3
62.5°	10502.0	10515.6	10571.4	11016.6	12106.2	12331.1	13636.5	12448.8	10139.8	10778.2
65°	10443.2	10500.5	11123.8	12646.5	13976.0	14197.9	15017.3	12916.6	9934.6	9908.9
67.5°	9513.5	9607.1	10649.9	14593.2	16795.1	17042.6	16686.4	13008.7	9048.7	7705.6
70°	8294.2	8327.4	9581.4	16343.8	20059.3	20309.8	18180.4	11996.0	6866.5	4298.0
72.5°	6477.2	6484.7	7956.1	16749.8	21831.0	21844.6	17007.8	8905.4	3692.8	1651.0
75°	4627.0	4581.7	5328.7	13583.6	19206.6	19360.6	12750.6	4177.3	1411.0	780.2
77.5°	2481.0	2530.8	3015.2	8055.7	13268.2	13530.8	6957.1	1204.3	718.3	531.2
80°	766.6	808.9	1236.0	3688.3	7515.4	7673.9	2579.1	535.7	501.0	378.8
82.5°	241.5	250.5	576.5	1549.9	3119.4	3191.8	747.0	303.3	342.6	250.5
85°	69.4	70.9	256.6	578.0	771.2	786.3	209.8	117.7	196.2	155.4
87.5°	7.5	24.1	96.6	96.6	67.9	66.4	22.6	25.7	55.8	19.6
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°
2985.1	0°	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1	2985.1
2998.6	2.5°	2991.1	2992.6	2973.0	2939.8	2903.6	2873.4	2835.6	2805.5	2784.3	2778.3
3025.8	5°	3012.2	3001.7	2945.8	2844.7	2724.0	2619.8	2503.6	2411.6	2351.2	2325.6
3054.5	7.5°	3043.9	3013.7	2891.5	2692.3	2461.4	2256.1	2047.9	1886.4	1783.8	1732.5
3081.6	10°	3071.1	3010.7	2800.9	2471.9	2118.8	1807.9	1527.2	1332.6	1223.9	1172.6
3113.3	12.5°	3096.7	3009.2	2683.2	2210.9	1732.5	1352.2	1091.1	994.5	964.3	953.8
3164.6	15°	3145.0	3013.7	2535.3	1912.1	1347.6	1021.7	926.6	925.1	931.1	928.1
3243.1	17.5°	3211.4	3018.3	2367.8	1595.1	1039.8	900.9	896.4	910.0	919.1	914.5
3341.2	20°	3297.4	3036.4	2189.7	1281.2	893.4	870.8	881.3	893.4	900.9	893.4
3472.5	22.5°	3418.2	3068.1	1995.1	1029.2	846.6	852.7	861.7	875.3	882.8	872.3
3640.0	25°	3566.1	3117.9	1803.4	894.9	824.0	831.5	845.1	860.2	869.3	858.7
3851.3	27.5°	3757.7	3197.8	1626.8	864.7	801.3	805.9	825.5	848.1	860.2	846.6
4151.6	30°	4035.4	3329.1	1474.4	878.3	787.8	777.2	804.4	836.1	849.6	837.6
4560.6	32.5°	4403.6	3514.8	1380.9	899.4	781.7	744.0	769.7	810.4	833.0	825.5
5094.8	35°	4886.5	3797.0	1344.6	923.6	777.2	709.3	727.4	771.2	810.4	817.9
5767.9	37.5°	5472.1	4189.3	1355.2	934.1	763.6	680.6	689.7	727.4	778.7	802.9
6525.5	40°	6137.6	4646.6	1415.6	923.6	748.5	656.5	658.0	686.7	731.9	768.1
7340.4	42.5°	6824.3	5180.8	1527.2	884.3	734.9	635.3	630.8	650.4	680.6	706.3
8153.8	45°	7477.7	5730.2	1637.4	830.0	718.3	614.2	603.7	611.2	617.2	627.8
8946.1	47.5°	8048.2	6116.5	1605.7	780.2	695.7	590.1	572.0	568.9	550.8	549.3
9653.9	50°	8442.1	6201.0	1426.1	730.4	662.5	562.9	534.2	516.1	484.4	469.3
10183.6	52.5°	8567.3	5867.5	1165.0	680.6	608.2	526.7	485.9	457.3	418.0	404.4
10488.4	55°	8401.3	5214.0	931.1	620.3	532.7	478.4	433.1	395.4	363.7	347.1
10521.6	57.5°	7995.3	4382.5	736.5	549.3	452.7	424.1	378.8	341.1	313.9	297.3
10153.4	60°	7322.3	3480.0	582.5	464.8	386.3	365.2	318.4	294.3	270.1	250.5
9202.6	62.5°	6300.6	2484.0	457.3	368.2	323.0	298.8	271.6	253.5	224.9	197.7
7492.8	65°	4916.7	1519.7	353.1	270.1	259.6	247.5	230.9	214.3	179.6	152.4
4888.1	67.5°	3101.3	719.9	252.0	203.7	205.2	199.2	191.7	178.1	152.4	128.3
2189.7	70°	1365.8	348.6	166.0	155.4	152.4	152.4	158.5	153.9	129.8	107.1
760.6	72.5°	464.8	187.1	123.7	117.7	110.2	108.7	132.8	128.3	104.1	83.0
378.8	75°	243.0	125.3	90.5	84.5	66.4	80.0	105.6	99.6	73.9	54.3
250.5	77.5°	158.5	89.0	61.9	54.3	37.7	52.8	78.5	69.4	43.8	27.2
164.5	80°	99.6	58.9	36.2	25.7	18.1	28.7	42.3	30.2	16.6	6.0
96.6	82.5°	52.8	30.2	13.6	9.1	7.5	9.1	10.6	7.5	3.0	0.0
49.8	85°	21.1	10.6	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0
9.1	87.5°	7.5	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>
2985.1
2788.9
2334.6
1740.0
1174.1
950.7
926.6
913.0
891.9
870.8
857.2
846.6
836.1
825.5
817.9
808.9
780.2
716.8
633.8
547.8
470.8
402.9
347.1
294.3
246.0
193.2
147.9
125.3
102.6
78.5
49.8
24.1
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