

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: P942218

Luminaire Tested: **GALN-SB6A-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942218
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-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 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: 19700 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

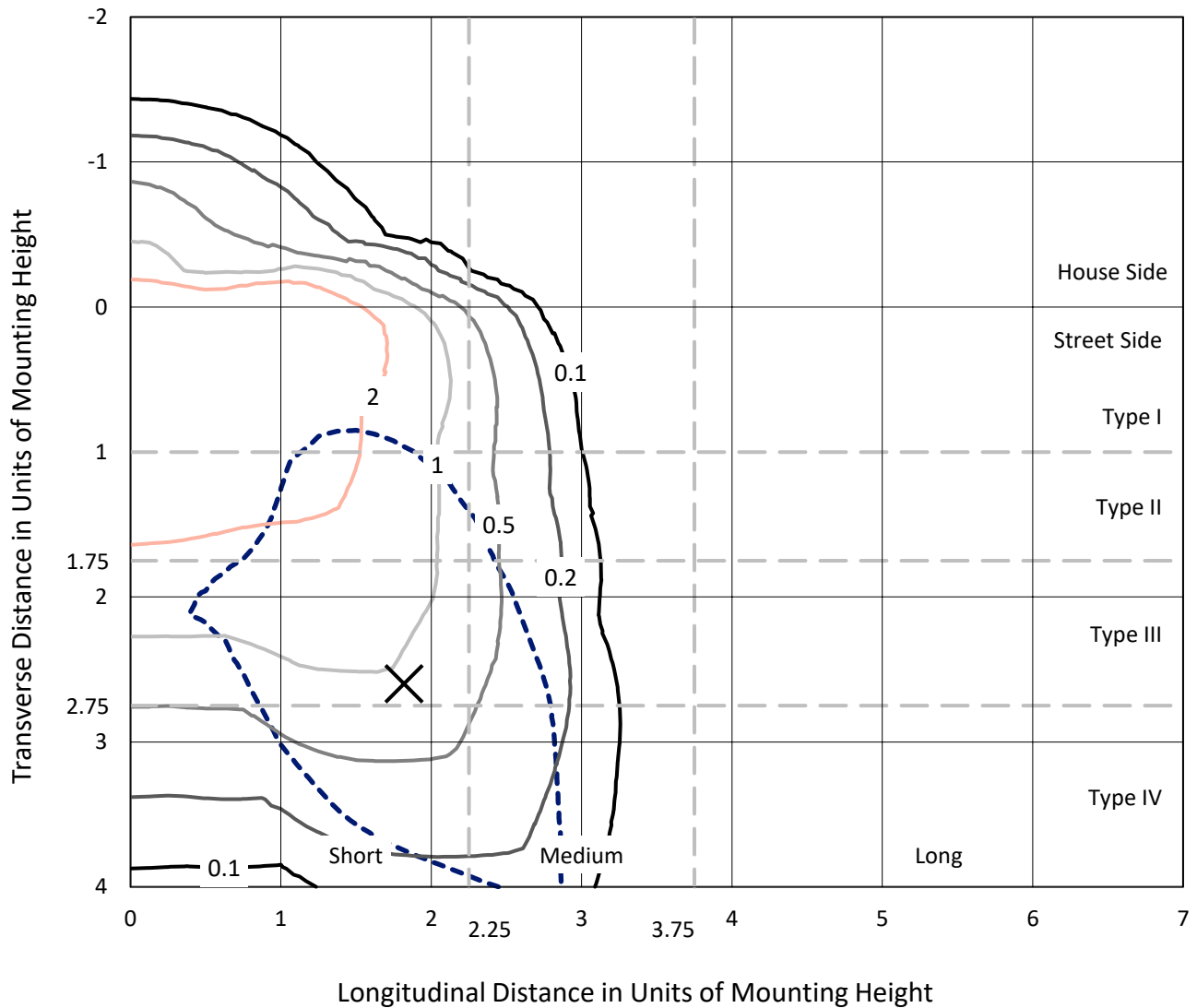
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

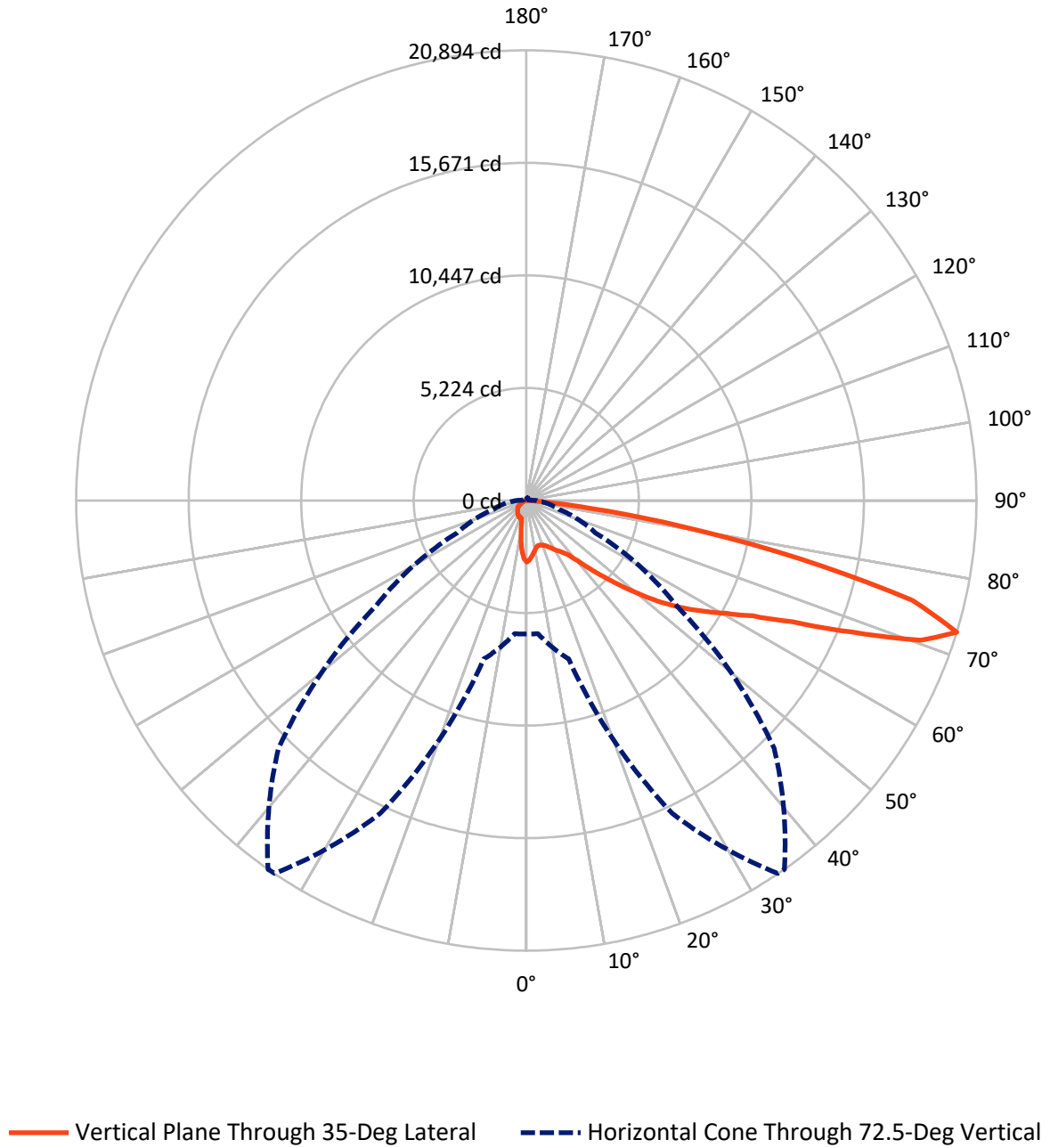
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2217.1	0.0	2217.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17482.9	0.0	17482.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	19700.0	0.0	19700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	1.2
10°-20°	548.9	2.8
20°-30°	891.6	4.5
30°-40°	1487.7	7.6
40°-50°	2814.7	14.3
50°-60°	4472.5	22.7
60°-70°	5532.8	28.1
70°-80°	3439.2	17.5
80°-90°	277.9	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°	19700.0	100.0
0°-180°	19700.0	100.0

Coefficient of Utilization



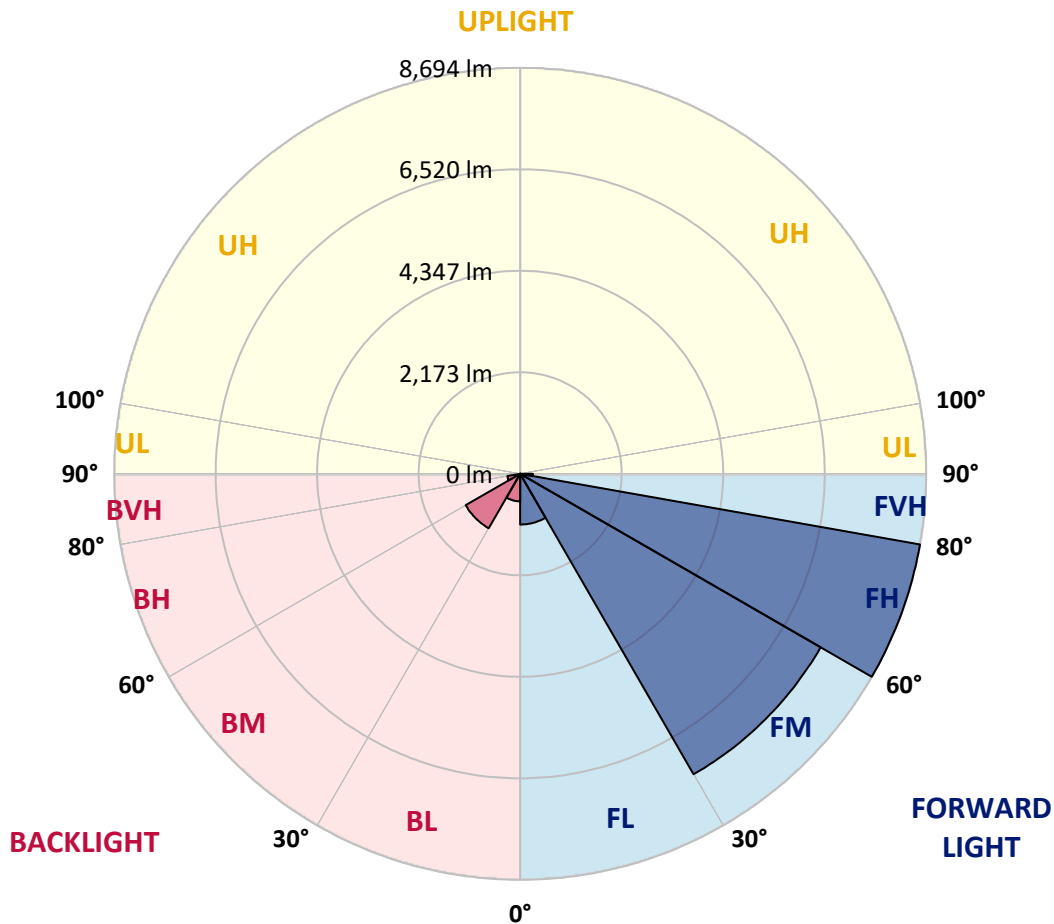
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.0	5.5			
FM (30°-60°)	7428.9	37.7			
FH (60°-80°)	8693.8	44.1			G4/12000
FVH (80°-90°)	274.2	1.4			G3/500
BL (0°-30°)	589.1	3.0	B2/1000		
BM (30°-60°)	1346.0	6.8	B2/2500		
BH (60°-80°)	278.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.8	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°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2728.2	2751.3	2755.6	2762.8	2762.8	2771.5	2785.9	2806.1	2839.3	2856.6
5°	2514.5	2531.9	2553.5	2570.8	2604.0	2608.4	2664.7	2719.5	2796.0	2853.7
7.5°	2299.5	2319.7	2348.5	2390.4	2433.7	2446.7	2531.9	2624.2	2745.5	2853.7
10°	2147.9	2149.3	2175.3	2217.2	2286.5	2302.3	2406.3	2537.6	2689.2	2836.4
12.5°	2062.7	2072.8	2084.4	2116.1	2182.5	2192.6	2303.8	2458.2	2632.9	2826.3
15°	2062.7	2069.9	2077.2	2093.0	2146.4	2155.1	2253.3	2407.7	2604.0	2830.7
17.5°	2084.4	2095.9	2090.1	2108.9	2165.2	2171.0	2257.6	2393.3	2602.6	2858.1
20°	2136.3	2145.0	2133.5	2145.0	2201.3	2212.8	2302.3	2420.7	2627.1	2905.7
22.5°	2218.6	2222.9	2195.5	2204.2	2261.9	2276.4	2380.3	2498.7	2686.3	2982.2
25°	2322.5	2331.2	2289.3	2299.5	2354.3	2371.6	2491.4	2615.6	2780.1	3087.6
27.5°	2442.4	2446.7	2410.6	2409.2	2479.9	2504.4	2625.7	2759.9	2905.7	3220.4
30°	2579.5	2592.5	2557.8	2552.1	2641.6	2661.8	2781.6	2937.5	3090.5	3419.6
32.5°	2687.7	2697.9	2677.6	2692.1	2783.0	2798.9	2970.7	3188.6	3380.6	3702.5
35°	2843.6	2849.4	2803.2	2829.2	2933.1	2973.6	3229.1	3540.8	3745.8	4057.6
37.5°	3408.0	3408.0	3211.7	3083.3	3182.9	3218.9	3582.7	3984.0	4196.2	4534.0
40°	4189.0	4176.0	3888.7	3626.0	3613.0	3683.7	4086.5	4542.6	4777.9	5105.6
42.5°	5021.8	5001.6	4610.5	4350.6	4307.3	4331.9	4668.2	5231.1	5470.8	5802.8
45°	5760.9	5755.1	5397.1	5047.8	4969.9	5047.8	5394.3	6036.6	6208.4	6557.7
47.5°	6380.2	6380.2	6118.9	5890.8	5850.4	5896.6	6377.3	6930.1	6914.2	7361.7
50°	7093.2	7087.5	6839.2	6741.0	6782.9	6847.8	7508.9	7871.3	7644.6	8151.3
52.5°	7592.7	7627.3	7542.1	7526.3	7739.9	7852.5	8658.0	8792.2	8298.5	8900.5
55°	7988.2	8028.6	8126.8	8237.9	8649.3	8796.5	9770.9	9665.5	8845.6	9550.0
57.5°	8548.2	8490.5	8642.1	8861.5	9526.9	9704.5	10849.1	10489.7	9285.9	10076.9
60°	9228.1	9236.8	9262.8	9539.9	10403.1	10631.2	11911.5	11269.2	9568.8	10400.2
62.5°	10045.1	10058.1	10111.5	10537.4	11579.5	11794.6	13043.2	11907.2	9698.7	10309.3
65°	9988.8	10043.7	10639.8	12096.3	13368.0	13580.2	14364.0	12354.7	9502.4	9477.8
67.5°	9099.7	9189.2	10186.6	13958.4	16064.4	16301.1	15960.5	12442.7	8655.1	7370.4
70°	7933.3	7965.1	9164.6	15632.8	19186.6	19426.3	17389.5	11474.2	6567.8	4111.0
72.5°	6195.4	6202.6	7610.0	16021.1	20881.3	20894.3	16267.9	8517.9	3532.2	1579.2
75°	4425.7	4382.4	5096.9	12992.7	18371.1	18518.3	12195.9	3995.5	1349.6	746.3
77.5°	2373.1	2420.7	2884.1	7705.3	12691.0	12942.2	6654.4	1151.9	687.1	508.1
80°	733.3	773.7	1182.2	3527.8	7188.5	7340.1	2466.9	512.4	479.2	362.3
82.5°	231.0	239.6	551.4	1482.4	2983.7	3052.9	714.5	290.1	327.7	239.6
85°	66.4	67.8	245.4	552.9	737.6	752.0	200.6	112.6	187.7	148.7
87.5°	7.2	23.1	92.4	92.4	65.0	63.5	21.7	24.5	53.4	18.8
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°
2855.2	0°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2868.2	2.5°	2861.0	2862.4	2843.6	2811.9	2777.2	2748.4	2712.3	2683.4	2663.2	2657.4
2894.2	5°	2881.2	2871.1	2817.7	2720.9	2605.5	2505.9	2394.7	2306.7	2248.9	2224.4
2921.6	7.5°	2911.5	2882.6	2765.7	2575.2	2354.3	2158.0	1958.8	1804.3	1706.2	1657.1
2947.6	10°	2937.5	2879.7	2679.1	2364.4	2026.6	1729.3	1460.8	1274.6	1170.7	1121.6
2977.9	12.5°	2962.0	2878.3	2566.5	2114.7	1657.1	1293.4	1043.6	951.2	922.4	912.3
3027.0	15°	3008.2	2882.6	2425.0	1828.9	1289.0	977.2	886.3	884.8	890.6	887.7
3102.0	17.5°	3071.7	2886.9	2264.8	1525.8	994.6	861.8	857.4	870.4	879.1	874.7
3195.9	20°	3154.0	2904.3	2094.5	1225.5	854.5	832.9	843.0	854.5	861.8	854.5
3321.4	22.5°	3269.5	2934.6	1908.3	984.4	809.8	815.6	824.2	837.2	844.4	834.3
3481.7	25°	3410.9	2982.2	1725.0	856.0	788.1	795.4	808.3	822.8	831.4	821.3
3683.7	27.5°	3594.2	3058.7	1556.1	827.1	766.5	770.8	789.6	811.2	822.8	809.8
3971.0	30°	3859.8	3184.3	1410.3	840.1	753.5	743.4	769.4	799.7	812.7	801.1
4362.2	32.5°	4212.1	3361.8	1320.8	860.3	747.7	711.6	736.2	775.1	796.8	789.6
4873.2	35°	4674.0	3631.8	1286.1	883.4	743.4	678.4	695.8	737.6	775.1	782.4
5517.0	37.5°	5234.0	4007.1	1296.2	893.5	730.4	651.0	659.7	695.8	744.8	767.9
6241.6	40°	5870.6	4444.5	1354.0	883.4	716.0	627.9	629.4	656.8	700.1	734.7
7021.1	42.5°	6527.4	4955.4	1460.8	845.9	703.0	607.7	603.4	622.1	651.0	675.5
7799.1	45°	7152.4	5480.9	1566.2	793.9	687.1	587.5	577.4	584.6	590.4	600.5
8556.9	47.5°	7698.0	5850.4	1535.9	746.3	665.4	564.4	547.1	544.2	526.9	525.4
9233.9	50°	8074.8	5931.2	1364.1	698.6	633.7	538.4	511.0	493.7	463.4	448.9
9740.6	52.5°	8194.6	5612.2	1114.4	651.0	581.7	503.8	464.8	437.4	399.8	386.9
10032.1	55°	8035.8	4987.2	890.6	593.3	509.5	457.6	414.3	378.2	347.9	332.0
10063.9	57.5°	7647.5	4191.8	704.4	525.4	433.0	405.6	362.3	326.2	300.2	284.4
9711.7	60°	7003.7	3328.6	557.2	444.6	369.5	349.3	304.6	281.5	258.4	239.6
8802.3	62.5°	6026.5	2376.0	437.4	352.2	308.9	285.8	259.8	242.5	215.1	189.1
7166.8	65°	4702.8	1453.6	337.8	258.4	248.3	236.7	220.9	205.0	171.8	145.8
4675.4	67.5°	2966.3	688.5	241.1	194.9	196.3	190.5	183.3	170.3	145.8	122.7
2094.5	70°	1306.3	333.4	158.8	148.7	145.8	145.8	151.6	147.2	124.1	102.5
727.5	72.5°	444.6	179.0	118.4	112.6	105.4	103.9	127.0	122.7	99.6	79.4
362.3	75°	232.4	119.8	86.6	80.8	63.5	76.5	101.0	95.3	70.7	52.0
239.6	77.5°	151.6	85.2	59.2	52.0	36.1	50.5	75.1	66.4	41.9	26.0
157.3	80°	95.3	56.3	34.6	24.5	17.3	27.4	40.4	28.9	15.9	5.8
92.4	82.5°	50.5	28.9	13.0	8.7	7.2	8.7	10.1	7.2	2.9	0.0
47.6	85°	20.2	10.1	4.3	2.9	1.4	0.0	2.9	1.4	0.0	0.0
8.7	87.5°	7.2	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>
2855.2
2667.5
2233.1
1664.3
1123.0
909.4
886.3
873.3
853.1
832.9
819.9
809.8
799.7
789.6
782.4
773.7
746.3
685.6
606.3
524.0
450.4
385.4
332.0
281.5
235.3
184.8
141.5
119.8
98.2
75.1
47.6
23.1
4.3
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