

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: P941688

Luminaire Tested: **GALN-SB5B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941688  
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-SB5B-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

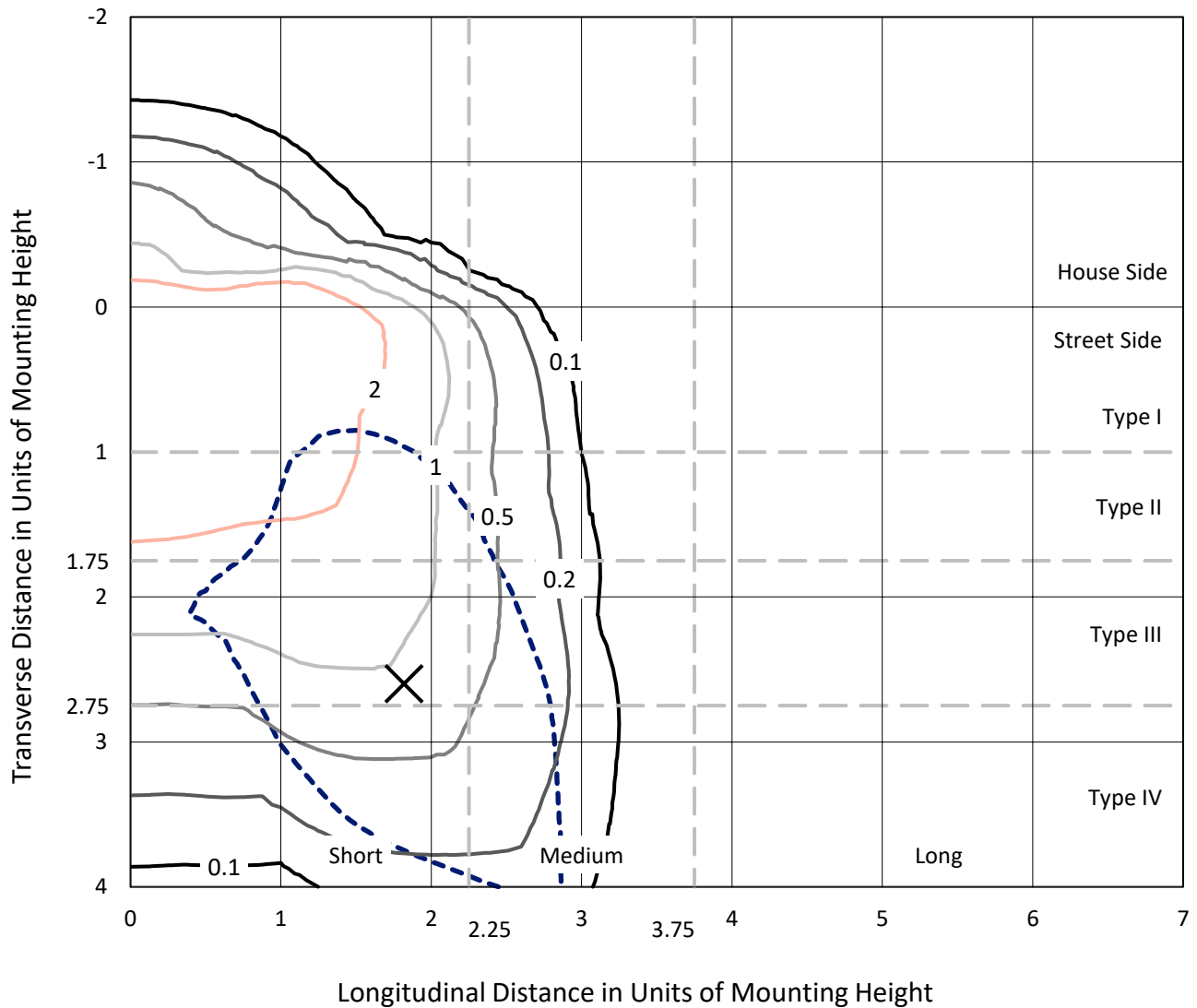
Lumens per Lamp: N/A  
Luminaire Lumens: 19352 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

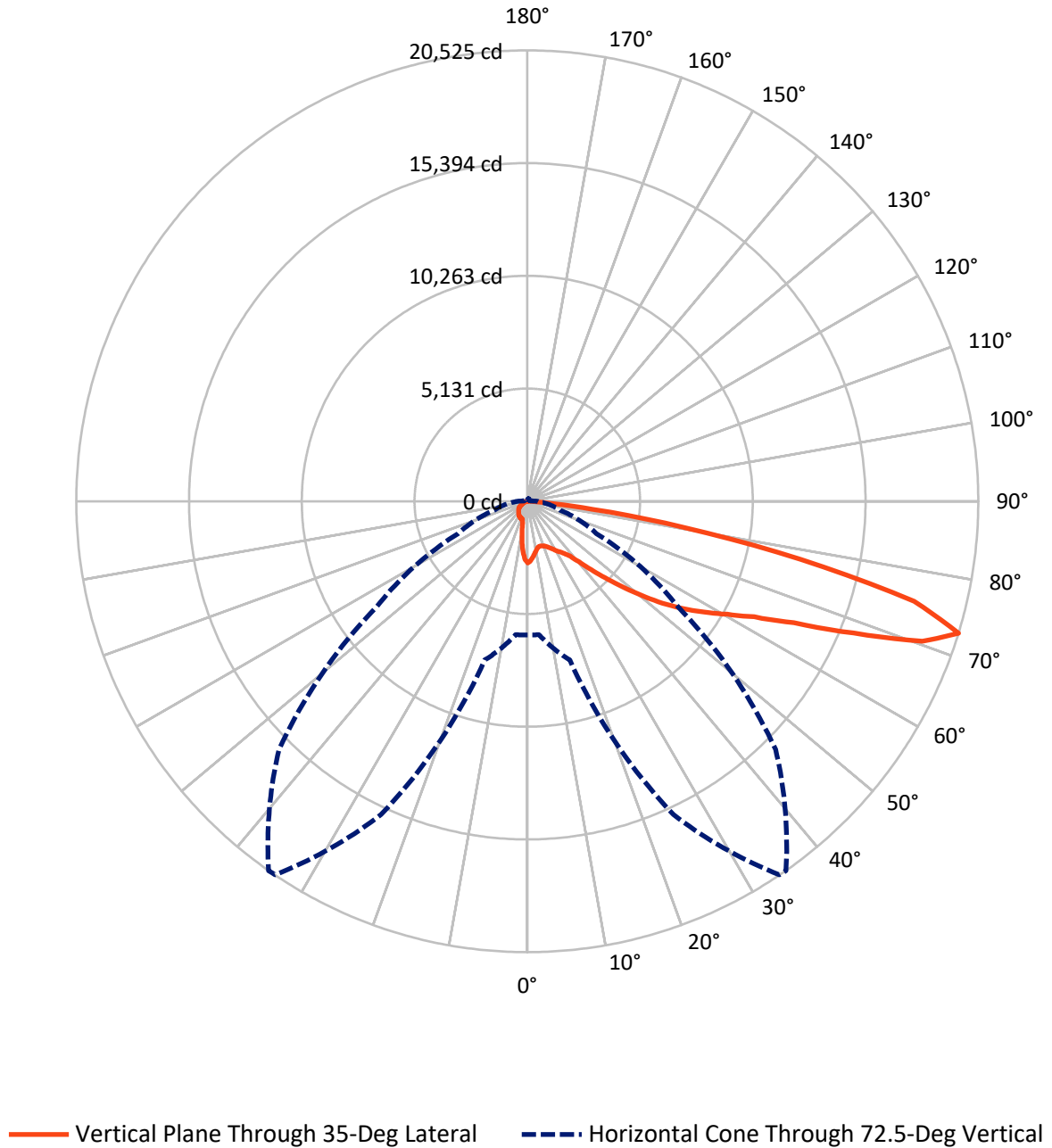
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2178.0	0.0	2178.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	17174.0	0.0	17174.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	19352.0	0.0	19352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	1.2
10°-20°	539.2	2.8
20°-30°	875.9	4.5
30°-40°	1461.4	7.6
40°-50°	2765.0	14.3
50°-60°	4393.5	22.7
60°-70°	5435.1	28.1
70°-80°	3378.5	17.5
80°-90°	273.0	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°	19352.0	100.0
0°-180°	19352.0	100.0

**Coefficient of Utilization**



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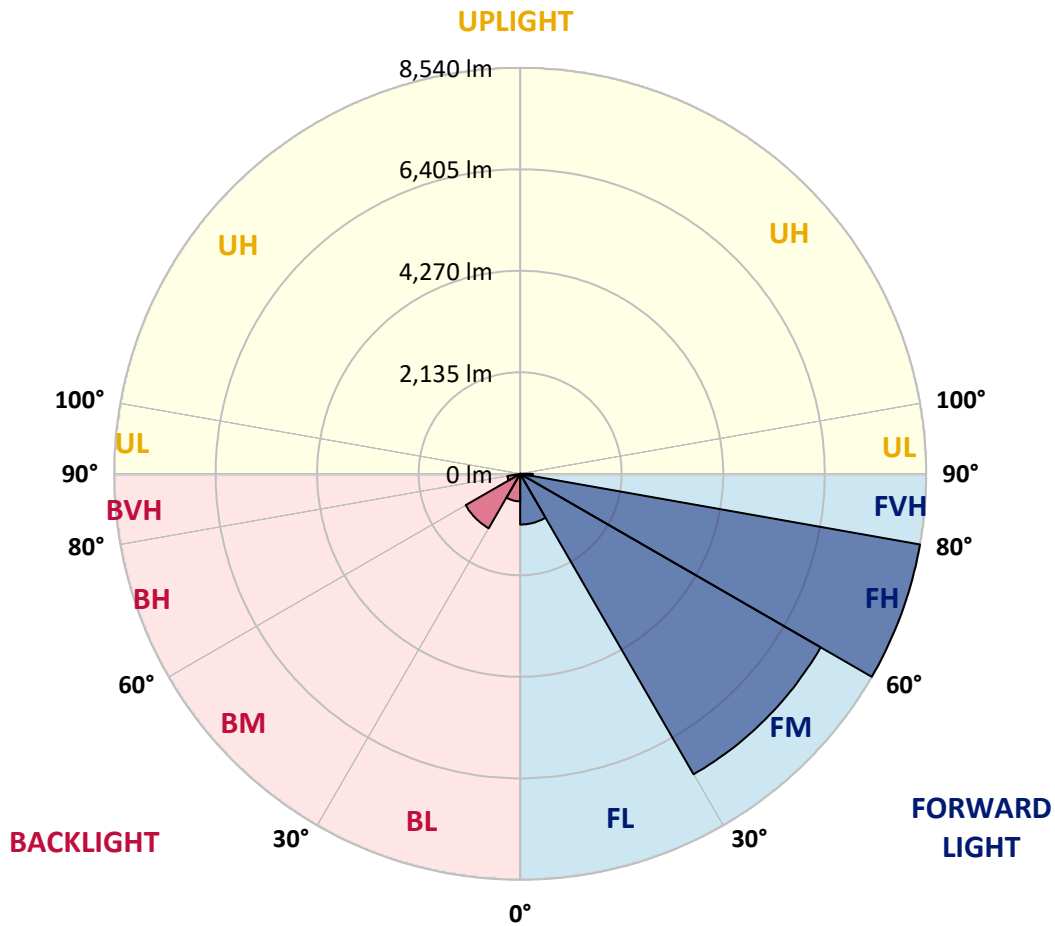
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.8	5.5			
FM (30°-60°)	7297.6	37.7			
FH (60°-80°)	8540.3	44.1			G4/12000
FVH (80°-90°)	269.3	1.4			G3/500
BL (0°-30°)	578.7	3.0	B2/1000		
BM (30°-60°)	1322.2	6.8	B2/2500		
BH (60°-80°)	273.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.7	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°	34°	35°	45°	55°	65°	75°
0°	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8
2.5°	2680.0	2702.7	2706.9	2714.0	2714.0	2722.5	2736.7	2756.5	2789.2	2806.2
5°	2470.1	2487.1	2508.4	2525.4	2558.0	2562.3	2617.6	2671.5	2746.6	2803.3
7.5°	2258.8	2278.7	2307.0	2348.2	2390.7	2403.5	2487.1	2577.9	2697.0	2803.3
10°	2109.9	2111.4	2136.9	2178.0	2246.1	2261.7	2363.8	2492.8	2641.7	2786.3
12.5°	2026.3	2036.2	2047.6	2078.8	2144.0	2153.9	2263.1	2414.8	2586.4	2776.4
15°	2026.3	2033.4	2040.5	2056.1	2108.5	2117.0	2213.5	2365.2	2558.0	2780.6
17.5°	2047.6	2058.9	2053.2	2071.7	2127.0	2132.6	2217.7	2351.0	2556.6	2807.6
20°	2098.6	2107.1	2095.8	2107.1	2162.4	2173.8	2261.7	2377.9	2580.7	2854.4
22.5°	2179.4	2183.7	2156.7	2165.2	2222.0	2236.1	2338.2	2454.5	2638.9	2929.5
25°	2281.5	2290.0	2248.9	2258.8	2312.7	2329.7	2447.4	2569.4	2731.0	3033.0
27.5°	2399.2	2403.5	2368.0	2366.6	2436.1	2460.2	2579.3	2711.2	2854.4	3163.5
30°	2533.9	2546.7	2512.7	2507.0	2594.9	2614.7	2732.4	2885.6	3035.9	3359.2
32.5°	2640.3	2650.2	2630.3	2644.5	2733.9	2749.5	2918.2	3132.3	3320.9	3637.1
35°	2793.4	2799.1	2753.7	2779.2	2881.3	2921.0	3172.0	3478.3	3679.6	3985.9
37.5°	3347.8	3347.8	3155.0	3028.8	3126.6	3162.1	3519.4	3913.6	4122.1	4453.9
40°	4115.0	4102.2	3820.0	3562.0	3549.2	3618.7	4014.3	4462.4	4693.5	5015.4
42.5°	4933.1	4913.3	4529.0	4273.8	4231.2	4255.3	4585.7	5138.7	5374.1	5700.3
45°	5659.1	5653.5	5301.8	4958.7	4882.1	4958.7	5299.0	5930.0	6098.7	6441.9
47.5°	6267.4	6267.4	6010.8	5786.8	5747.1	5792.4	6264.6	6807.7	6792.1	7231.7
50°	6967.9	6962.3	6718.4	6621.9	6663.1	6726.9	7376.3	7732.2	7509.6	8007.3
52.5°	7458.5	7492.6	7408.9	7393.3	7603.2	7713.8	8505.0	8636.9	8151.9	8743.2
55°	7847.1	7886.8	7983.2	8092.4	8496.5	8641.1	9598.3	9494.8	8689.3	9381.3
57.5°	8397.2	8340.5	8489.4	8704.9	9358.6	9533.0	10657.5	10304.4	9121.8	9898.9
60°	9065.1	9073.6	9099.1	9371.4	10219.3	10443.4	11701.1	11070.1	9399.8	10216.5
62.5°	9867.7	9880.4	9932.9	10351.2	11375.0	11586.3	12812.8	11696.9	9527.4	10127.2
65°	9812.4	9866.3	10451.9	11882.6	13131.9	13340.3	14110.3	12136.4	9334.5	9310.4
67.5°	8938.9	9026.8	10006.6	13711.8	15780.6	16013.2	15678.5	12222.9	8502.2	7240.2
70°	7793.2	7824.4	9002.7	15356.7	18847.7	19083.1	17082.3	11271.5	6451.8	4038.4
72.5°	6085.9	6093.0	7475.6	15738.1	20512.4	20525.2	15980.6	8367.5	3469.8	1551.3
75°	4347.5	4305.0	5006.9	12763.2	18046.6	18191.2	11980.5	3925.0	1325.8	733.1
77.5°	2331.2	2377.9	2833.1	7569.1	12466.8	12713.6	6536.9	1131.5	675.0	499.1
80°	720.3	760.0	1161.3	3465.5	7061.5	7210.4	2423.3	503.4	470.8	355.9
82.5°	226.9	235.4	541.7	1456.3	2931.0	2999.0	701.9	285.0	321.9	235.4
85°	65.2	66.6	241.1	543.1	724.6	738.8	197.1	110.6	184.3	146.1
87.5°	7.1	22.7	90.8	90.8	63.8	62.4	21.3	24.1	52.5	18.4
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°
2804.8	0°	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8	2804.8
2817.5	2.5°	2810.4	2811.8	2793.4	2762.2	2728.2	2699.8	2664.4	2636.0	2616.2	2610.5
2843.0	5°	2830.3	2820.4	2767.9	2672.9	2559.4	2461.6	2352.4	2265.9	2209.2	2185.1
2870.0	7.5°	2860.1	2831.7	2716.8	2529.7	2312.7	2119.9	1924.2	1772.5	1676.0	1627.8
2895.5	10°	2885.6	2828.9	2631.8	2322.6	1990.8	1698.7	1435.0	1252.1	1150.0	1101.8
2925.3	12.5°	2909.7	2827.4	2521.2	2077.3	1627.8	1270.5	1025.2	934.4	906.1	896.2
2973.5	15°	2955.1	2831.7	2382.2	1796.6	1266.3	960.0	870.6	869.2	874.9	872.1
3047.2	17.5°	3017.4	2835.9	2224.8	1498.8	977.0	846.5	842.3	855.0	863.5	859.3
3139.4	20°	3098.3	2853.0	2057.5	1203.9	839.4	818.2	828.1	839.4	846.5	839.4
3262.8	22.5°	3211.7	2882.7	1874.6	967.1	795.5	801.2	809.7	822.4	829.5	819.6
3420.2	25°	3350.7	2929.5	1694.5	840.9	774.2	781.3	794.1	808.2	816.8	806.8
3618.7	27.5°	3530.8	3004.7	1528.6	812.5	752.9	757.2	775.6	796.9	808.2	795.5
3900.8	30°	3791.7	3128.1	1385.4	825.3	740.2	730.3	755.8	785.6	798.3	787.0
4285.1	32.5°	4137.6	3302.5	1297.4	845.1	734.5	699.1	723.2	761.5	782.7	775.6
4787.1	35°	4591.4	3567.6	1263.4	867.8	730.3	666.4	683.5	724.6	761.5	768.5
5419.5	37.5°	5141.6	3936.3	1273.3	877.7	717.5	639.5	648.0	683.5	731.7	754.4
6131.3	40°	5766.9	4365.9	1330.1	867.8	703.3	616.8	618.2	645.2	687.7	721.7
6897.0	42.5°	6412.1	4867.9	1435.0	830.9	690.6	597.0	592.7	611.1	639.5	663.6
7661.3	45°	7026.1	5384.0	1538.5	779.9	675.0	577.1	567.2	574.3	580.0	589.9
8405.8	47.5°	7562.1	5747.1	1508.7	733.1	653.7	554.4	537.4	534.6	517.6	516.1
9070.8	50°	7932.1	5826.5	1340.0	686.3	622.5	528.9	502.0	484.9	455.2	441.0
9568.5	52.5°	8049.8	5513.1	1094.7	639.5	571.4	494.9	456.6	429.6	392.8	380.0
9854.9	55°	7893.9	4899.1	874.9	582.8	500.5	449.5	407.0	371.5	341.7	326.1
9886.1	57.5°	7512.4	4117.8	692.0	516.1	425.4	398.5	355.9	320.5	294.9	279.3
9540.1	60°	6880.0	3269.8	547.3	436.7	363.0	343.1	299.2	276.5	253.8	235.4
8646.8	62.5°	5920.0	2334.0	429.6	346.0	303.4	280.8	255.2	238.2	211.3	185.8
7040.2	65°	4619.8	1427.9	331.8	253.8	243.9	232.5	217.0	201.4	168.7	143.2
4592.8	67.5°	2913.9	676.4	236.8	191.4	192.8	187.2	180.1	167.3	143.2	120.5
2057.5	70°	1283.3	327.6	156.0	146.1	143.2	143.2	148.9	144.6	121.9	100.7
714.7	72.5°	436.7	175.8	116.3	110.6	103.5	102.1	124.8	120.5	97.8	78.0
355.9	75°	228.3	117.7	85.1	79.4	62.4	75.2	99.3	93.6	69.5	51.0
235.4	77.5°	148.9	83.7	58.1	51.0	35.4	49.6	73.7	65.2	41.1	25.5
154.6	80°	93.6	55.3	34.0	24.1	17.0	26.9	39.7	28.4	15.6	5.7
90.8	82.5°	49.6	28.4	12.8	8.5	7.1	8.5	9.9	7.1	2.8	0.0
46.8	85°	19.9	9.9	4.3	2.8	1.4	0.0	2.8	1.4	0.0	0.0
8.5	87.5°	7.1	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>
2804.8
2620.4
2193.6
1634.9
1103.2
893.3
870.6
857.9
838.0
818.2
805.4
795.5
785.6
775.6
768.5
760.0
733.1
673.5
595.5
514.7
442.4
378.6
326.1
276.5
231.1
181.5
139.0
117.7
96.4
73.7
46.8
22.7
4.3
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