

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: P941742

Luminaire Tested: **GALN-SB5B-935-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-935-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19615 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

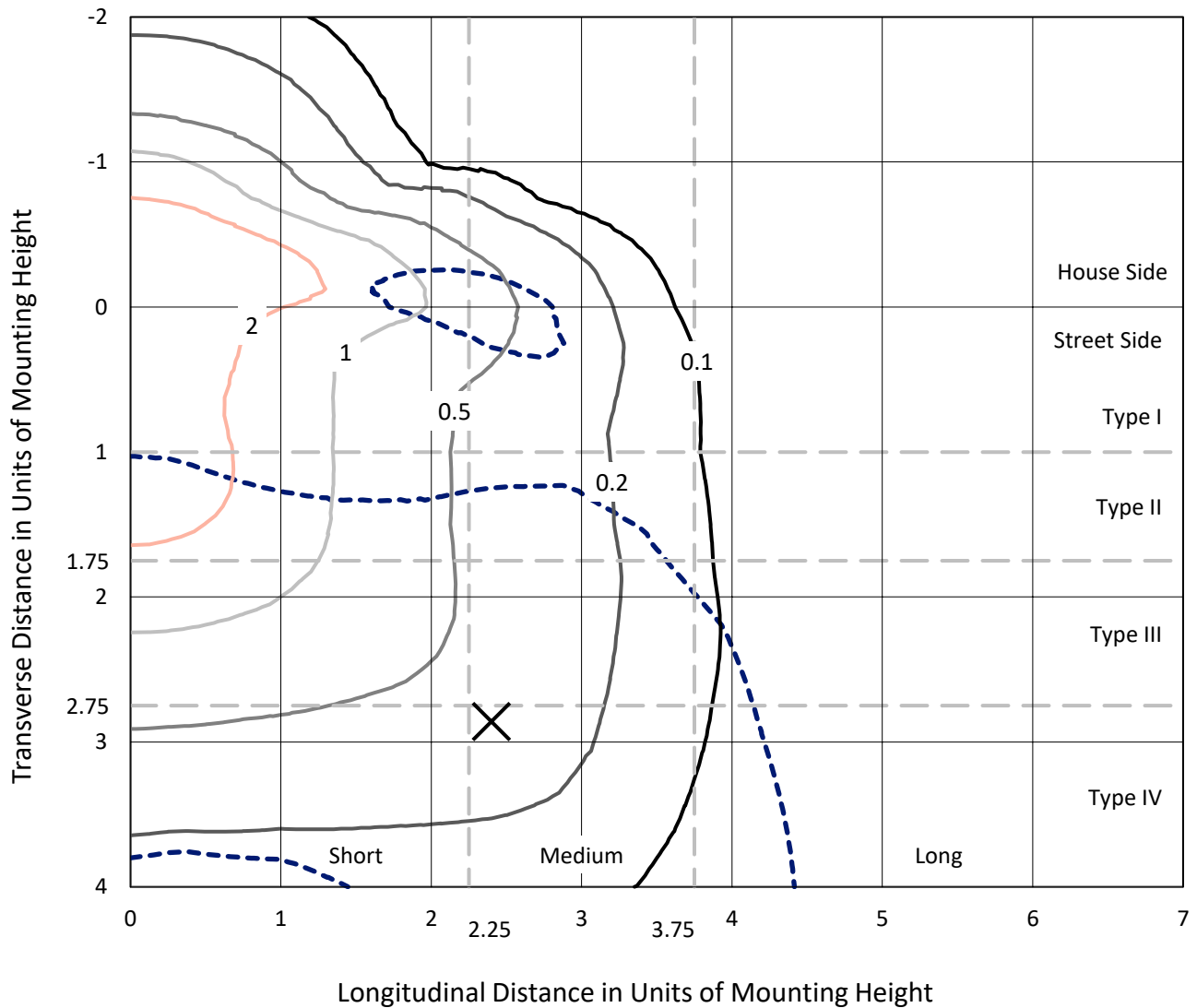
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

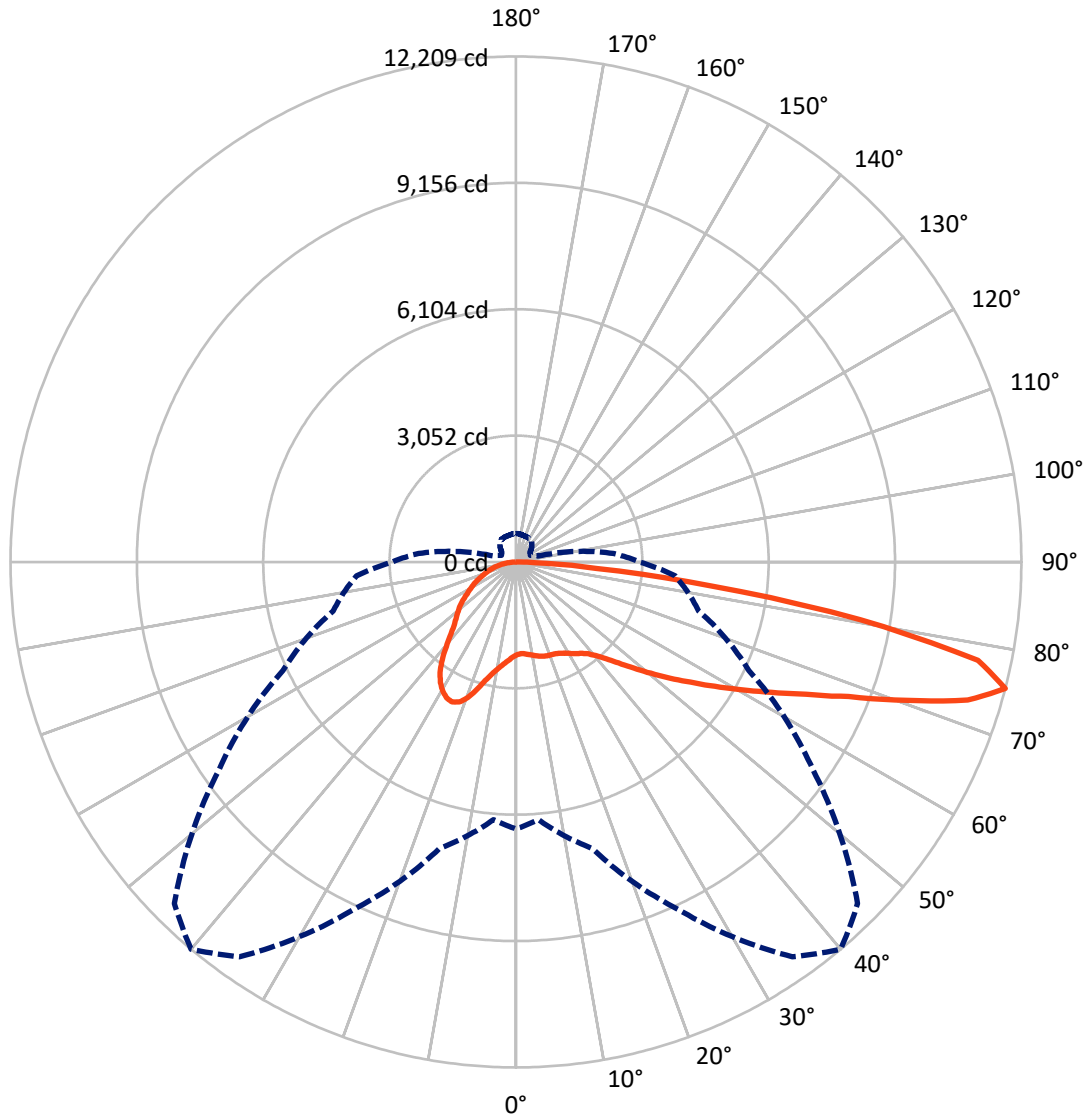
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6077.4	0.0	6077.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13537.6	0.0	13537.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	19615.0	0.0	19615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.1
10°-20°	751.7	3.8
20°-30°	1372.6	7.0
30°-40°	1946.7	9.9
40°-50°	2628.6	13.4
50°-60°	3536.2	18.0
60°-70°	4488.2	22.9
70°-80°	4073.3	20.8
80°-90°	593.8	3.0
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°	19615.0	100.0
0°-180°	19615.0	100.0

Coefficient of Utilization



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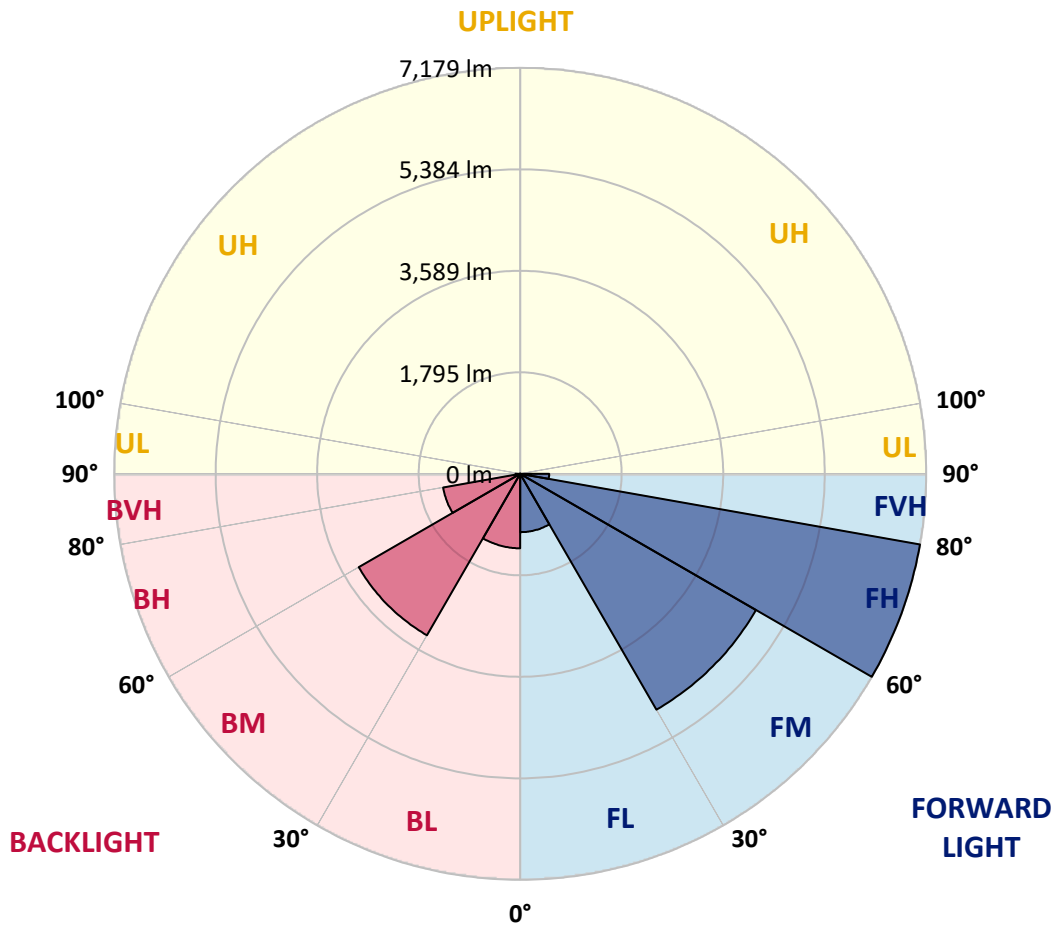
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.8	5.3			
FM (30°-60°)	4815.0	24.5			
FH (60°-80°)	7178.8	36.6			G3/7500
FVH (80°-90°)	512.0	2.6			G4/750
BL (0°-30°)	1316.4	6.7	B3/2500		
BM (30°-60°)	3296.4	16.8	B3/5000		
BH (60°-80°)	1382.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0
2.5°	2208.7	2221.2	2218.0	2213.9	2213.9	2214.9	2213.9	2221.2	2228.4	2235.7
5°	2231.6	2244.0	2237.8	2232.6	2228.4	2227.4	2224.3	2223.2	2227.4	2236.8
7.5°	2276.3	2288.8	2279.4	2270.1	2261.7	2257.6	2253.4	2247.2	2244.0	2249.2
10°	2326.2	2338.7	2327.3	2310.6	2297.1	2291.9	2287.7	2281.5	2277.3	2280.5
12.5°	2376.2	2388.7	2373.0	2350.2	2332.5	2329.4	2324.1	2322.1	2321.0	2320.0
15°	2423.0	2433.4	2413.6	2386.6	2367.8	2362.6	2357.4	2360.6	2365.8	2372.0
17.5°	2459.4	2469.8	2440.7	2405.3	2387.6	2385.5	2382.4	2392.8	2407.4	2423.0
20°	2492.7	2503.1	2465.6	2417.8	2397.0	2397.0	2398.0	2419.9	2440.7	2463.6
22.5°	2539.5	2547.8	2502.0	2436.5	2406.3	2408.4	2416.7	2438.6	2464.6	2495.8
25°	2609.2	2615.4	2559.3	2471.9	2437.5	2443.8	2451.1	2461.5	2486.4	2522.9
27.5°	2721.6	2726.8	2652.9	2534.3	2482.3	2492.7	2503.1	2495.8	2507.3	2538.5
30°	2879.7	2882.8	2789.2	2632.1	2558.2	2563.4	2565.5	2535.3	2513.5	2538.5
32.5°	3067.0	3065.9	2954.6	2750.7	2644.6	2639.4	2621.7	2562.4	2511.4	2533.3
35°	3357.2	3345.8	3202.2	2917.2	2742.4	2710.1	2668.5	2592.6	2521.8	2528.1
37.5°	3837.9	3802.5	3603.8	3189.7	2888.0	2805.8	2744.5	2641.5	2544.7	2526.0
40°	4379.9	4335.2	4116.7	3563.2	3106.5	2974.4	2875.5	2711.2	2582.2	2535.3
42.5°	5022.8	4959.4	4724.2	4003.3	3383.2	3191.8	3043.0	2799.6	2637.3	2565.5
45°	5812.5	5728.2	5395.3	4499.5	3731.7	3476.9	3278.2	2933.8	2721.6	2623.8
47.5°	6610.4	6631.2	6157.9	5067.6	4150.0	3828.5	3572.6	3135.6	2844.3	2717.4
50°	7458.3	7472.9	6916.3	5697.0	4624.4	4225.9	3903.4	3361.4	3014.9	2850.6
52.5°	8120.0	8122.0	7605.0	6355.5	5118.5	4662.9	4260.2	3619.4	3212.6	3027.4
55°	8534.0	8528.8	8087.7	6978.7	5686.6	5121.7	4655.6	3912.8	3454.0	3235.5
57.5°	8834.7	8819.1	8420.6	7514.5	6292.1	5663.7	5102.9	4245.7	3739.0	3483.1
60°	8949.1	8939.8	8646.4	7977.4	6928.8	6262.9	5618.9	4618.1	4062.6	3775.4
62.5°	8992.8	9010.5	8868.0	8425.8	7610.2	6926.7	6185.9	5063.4	4426.7	4106.3
65°	9146.8	9179.0	9149.9	9012.6	8380.0	7703.8	6938.1	5592.9	4824.1	4461.0
67.5°	9451.6	9483.9	9496.3	9714.8	9320.5	8672.4	7876.5	6252.5	5289.2	4829.3
70°	9444.3	9435.0	9655.5	10273.5	10498.2	10013.4	9141.6	7064.0	5843.7	5135.2
72.5°	8596.4	8521.5	9042.7	10267.2	11478.2	11413.7	10686.5	8110.6	6322.2	5172.6
75°	6449.1	6249.4	7170.1	9252.9	11641.6	12208.5	11668.6	8759.8	6208.8	4570.3
77.5°	2758.0	2557.2	3642.3	6849.7	10419.1	11412.7	10767.7	7642.4	4956.2	3022.2
80°	722.0	721.0	1100.7	3105.5	7085.8	8427.9	7393.8	4935.4	2831.8	1079.9
82.5°	298.6	291.3	404.7	1207.9	3462.3	4729.4	3859.7	2201.4	1022.7	292.3
85°	111.3	110.3	196.6	417.2	1221.4	1950.7	1411.8	562.8	254.9	142.5
87.5°	31.2	30.2	42.7	144.6	297.5	451.5	241.4	92.6	71.8	56.2
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°
2243.0	0°	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0	2243.0
2247.2	2.5°	2250.3	2255.5	2264.8	2272.1	2281.5	2291.9	2306.5	2315.8	2325.2	2331.4
2252.4	5°	2259.6	2271.1	2295.0	2318.9	2347.0	2373.0	2403.2	2425.1	2442.7	2448.0
2271.1	7.5°	2280.5	2299.2	2339.8	2380.3	2425.1	2467.7	2511.4	2548.9	2579.0	2590.5
2304.4	10°	2316.9	2341.8	2399.1	2456.3	2515.6	2581.1	2637.3	2691.4	2734.0	2751.7
2343.9	12.5°	2362.6	2393.9	2468.8	2547.8	2630.0	2720.5	2793.3	2859.9	2913.0	2936.9
2399.1	15°	2421.9	2462.5	2558.2	2664.3	2785.0	2910.9	3003.5	3077.4	3136.7	3165.8
2456.3	17.5°	2486.4	2540.5	2661.2	2821.4	2994.1	3159.6	3267.7	3321.8	3383.2	3411.3
2509.3	20°	2548.9	2615.4	2788.1	3021.2	3251.1	3426.9	3514.3	3528.9	3533.0	3536.2
2559.3	22.5°	2613.4	2702.8	2947.3	3273.0	3519.5	3641.2	3653.7	3591.3	3503.9	3463.3
2608.2	25°	2684.1	2802.7	3155.4	3550.7	3750.5	3765.0	3669.3	3517.4	3352.0	3276.1
2647.7	27.5°	2752.8	2918.2	3405.1	3816.0	3916.9	3789.0	3583.0	3367.6	3167.9	3087.8
2675.8	30°	2821.4	3050.3	3680.8	4048.0	3992.9	3729.7	3446.7	3206.4	3005.6	2921.3
2700.8	32.5°	2891.1	3204.3	3998.1	4215.5	3979.4	3603.8	3277.1	3025.3	2848.5	2760.1
2722.6	35°	2970.2	3393.6	4298.7	4307.1	3888.8	3418.6	3053.4	2809.0	2655.0	2584.2
2748.6	37.5°	3073.2	3634.0	4564.0	4329.9	3730.7	3147.1	2775.7	2553.0	2426.1	2393.9
2787.1	40°	3201.2	3923.2	4766.9	4293.5	3496.6	2817.3	2471.9	2294.0	2222.2	2229.5
2839.1	42.5°	3367.6	4246.7	4909.4	4199.9	3171.0	2477.1	2205.5	2126.5	2160.8	2189.9
2917.2	45°	3584.0	4582.8	4997.9	4040.7	2802.7	2188.9	2048.5	2067.2	2093.2	2096.3
3043.0	47.5°	3860.8	4923.0	5056.1	3800.4	2427.1	1986.0	1948.6	1952.7	1947.5	1925.7
3231.3	50°	4206.1	5253.8	5108.1	3482.1	2107.8	1859.1	1809.2	1794.6	1722.8	1652.1
3482.1	52.5°	4599.4	5557.6	5130.0	3086.7	1859.1	1753.0	1671.8	1580.3	1446.1	1424.2
3797.3	55°	5036.3	5838.5	5073.8	2600.9	1650.0	1616.7	1493.9	1383.7	1369.1	1350.4
4212.4	57.5°	5558.6	6141.2	4959.4	2058.9	1435.7	1457.5	1337.9	1350.4	1324.4	1295.2
4746.1	60°	6129.8	6454.4	4758.6	1564.7	1214.1	1258.8	1297.3	1296.3	1289.0	1265.1
5308.9	62.5°	6643.7	6660.3	4363.2	1198.5	1019.5	1104.9	1209.9	1208.9	1202.6	1189.1
5896.7	65°	6949.6	6629.1	3703.7	943.6	859.3	977.9	1091.3	1099.7	1100.7	1099.7
6338.9	67.5°	6895.5	6264.0	2798.5	751.1	727.2	848.9	973.8	985.2	993.5	995.6
6395.1	70°	6283.7	5461.9	1824.8	599.2	609.6	735.5	862.5	873.9	881.2	889.5
5549.2	72.5°	4898.0	4015.8	1044.5	484.8	506.7	637.7	752.2	765.7	769.9	785.5
3861.8	75°	2984.8	2361.6	563.9	381.8	416.1	545.1	642.9	658.5	665.8	684.6
1896.6	77.5°	1419.0	1022.7	321.5	297.5	335.0	445.3	543.1	560.8	541.0	551.4
523.3	80°	479.6	379.7	202.9	226.8	255.9	347.5	434.9	452.6	410.9	408.9
173.7	82.5°	167.5	154.0	129.0	150.9	165.4	248.6	328.8	351.6	305.9	304.8
78.0	85°	65.5	62.4	71.8	82.2	98.8	152.9	216.4	227.8	188.3	151.9
22.9	87.5°	13.5	14.6	17.7	18.7	30.2	53.1	78.0	95.7	75.9	64.5
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>
2243.0
2327.3
2450.0
2591.5
2752.8
2936.9
3163.7
3410.3
3544.5
3474.8
3287.5
3097.1
2930.7
2771.5
2599.8
2416.7
2254.4
2217.0
2117.1
1942.3
1661.4
1431.5
1353.5
1290.0
1256.7
1183.9
1099.7
997.7
893.7
791.7
686.6
543.1
404.7
290.3
149.8
59.3
0.0

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