

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: P940512

Luminaire Tested: **GALN-SB3C-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940512
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-SB3C-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21305 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

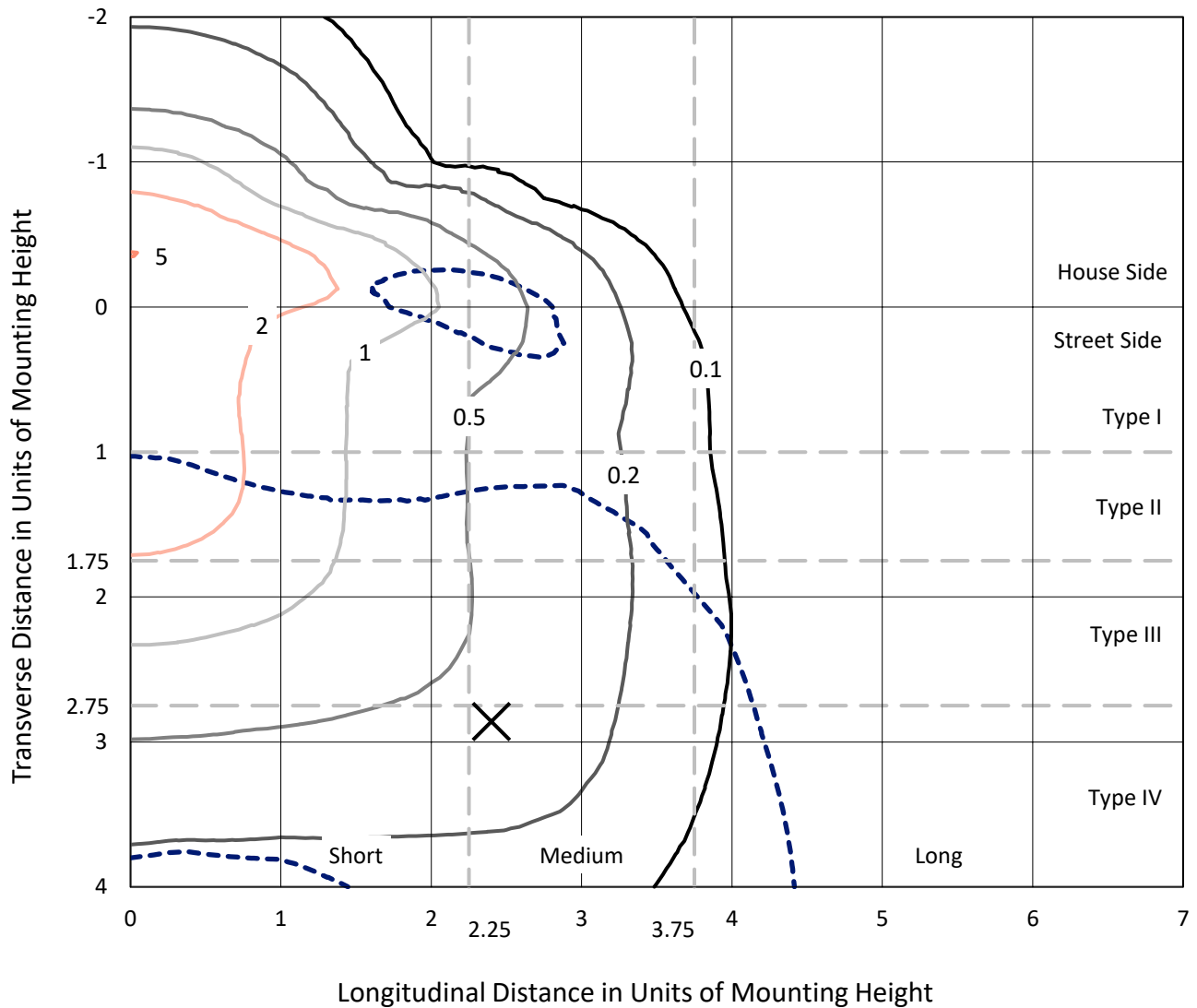
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

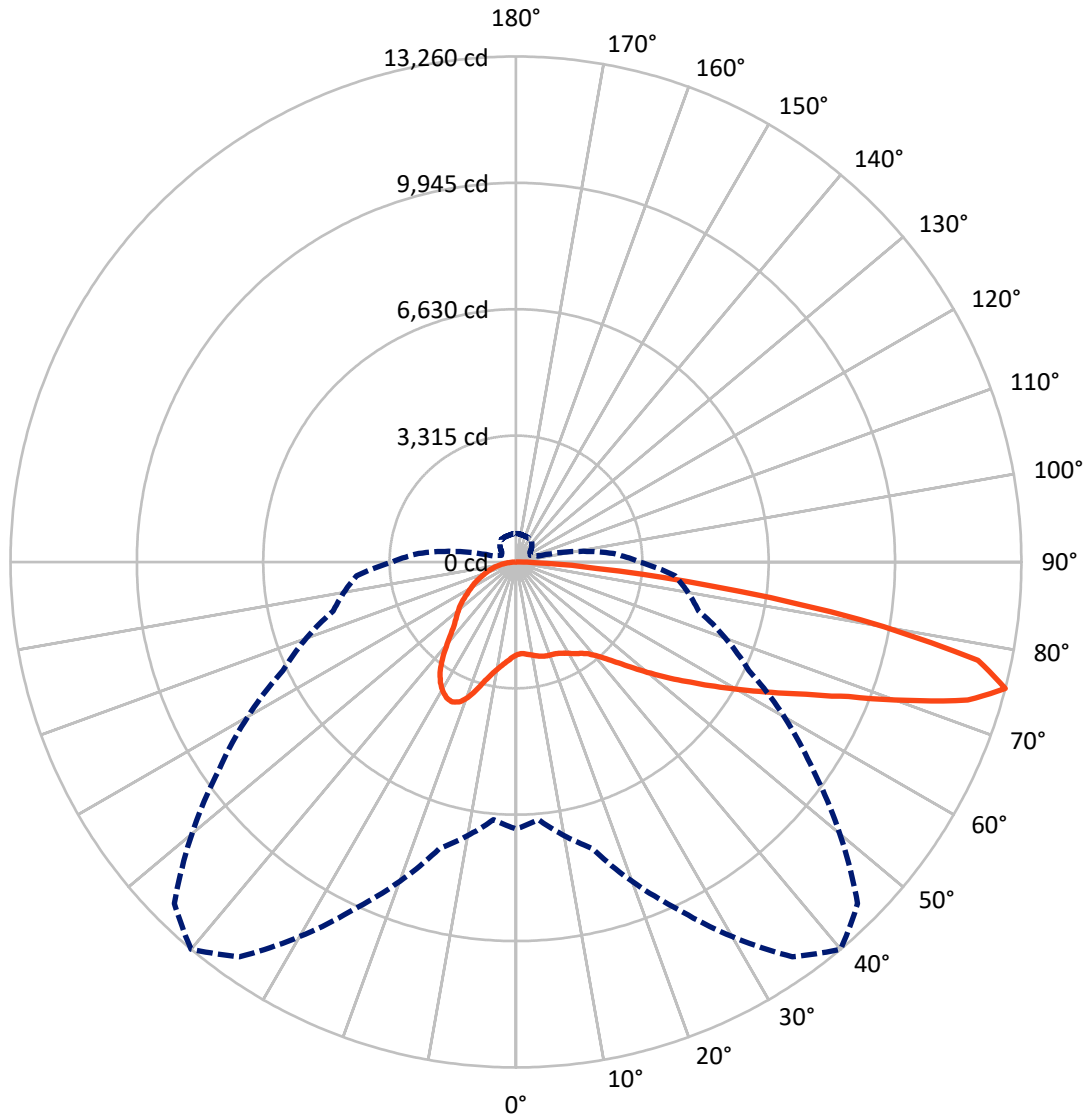
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	6601.0	0.0	6601.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14704.0	0.0	14704.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	21305.0	0.0	21305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.1
10°-20°	816.5	3.8
20°-30°	1490.8	7.0
30°-40°	2114.4	9.9
40°-50°	2855.1	13.4
50°-60°	3840.9	18.0
60°-70°	4874.9	22.9
70°-80°	4424.3	20.8
80°-90°	644.9	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°	21305.0	100.0
0°-180°	21305.0	100.0

Coefficient of Utilization



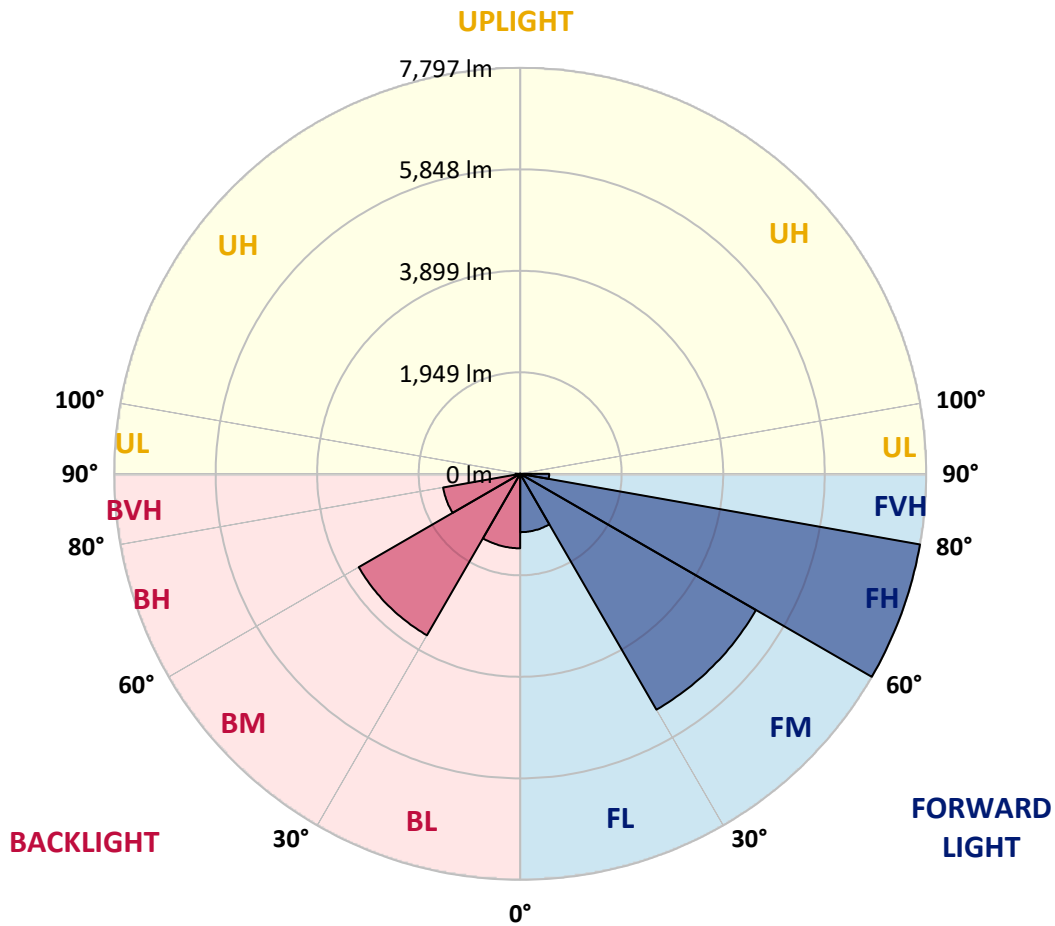
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.7	5.3			
FM (30°-60°)	5229.9	24.5			
FH (60°-80°)	7797.3	36.6			G4/12000
FVH (80°-90°)	556.1	2.6			G4/750
BL (0°-30°)	1429.8	6.7	B3/2500		
BM (30°-60°)	3580.5	16.8	B3/5000		
BH (60°-80°)	1501.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	88.8	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°	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3
2.5°	2399.0	2412.5	2409.1	2404.6	2404.6	2405.7	2404.6	2412.5	2420.4	2428.3
5°	2423.8	2437.4	2430.6	2425.0	2420.4	2419.3	2415.9	2414.8	2419.3	2429.5
7.5°	2472.4	2486.0	2475.8	2465.6	2456.6	2452.1	2447.6	2440.8	2437.4	2443.0
10°	2526.7	2540.2	2527.8	2509.7	2495.0	2489.4	2484.8	2478.1	2473.5	2476.9
12.5°	2580.9	2594.5	2577.5	2552.6	2533.4	2530.0	2524.4	2522.1	2521.0	2519.9
15°	2631.7	2643.0	2621.6	2592.2	2571.9	2566.2	2560.6	2563.9	2569.6	2576.4
17.5°	2671.3	2682.6	2651.0	2612.5	2593.3	2591.1	2587.7	2599.0	2614.8	2631.7
20°	2707.5	2718.8	2678.1	2626.1	2603.5	2603.5	2604.6	2628.4	2651.0	2675.8
22.5°	2758.3	2767.3	2717.6	2646.4	2613.7	2615.9	2625.0	2648.7	2676.9	2710.8
25°	2834.0	2840.8	2779.8	2684.9	2647.6	2654.3	2662.3	2673.6	2700.7	2740.2
27.5°	2956.0	2961.7	2881.5	2752.7	2696.2	2707.5	2718.8	2710.8	2723.3	2757.2
30°	3127.8	3131.2	3029.5	2858.9	2778.6	2784.3	2786.6	2753.8	2730.1	2757.2
32.5°	3331.2	3330.1	3209.2	2987.7	2872.4	2866.8	2847.6	2783.2	2727.8	2751.5
35°	3646.5	3634.0	3478.1	3168.5	2978.6	2943.6	2898.4	2815.9	2739.1	2745.9
37.5°	4168.5	4130.1	3914.3	3464.5	3136.8	3047.6	2980.9	2869.0	2764.0	2743.6
40°	4757.3	4708.7	4471.4	3870.2	3374.1	3230.6	3123.3	2944.7	2804.6	2753.8
42.5°	5455.6	5386.7	5131.3	4348.2	3674.7	3466.8	3305.2	3040.8	2864.5	2786.6
45°	6313.2	6221.7	5860.1	4887.2	4053.3	3776.4	3560.6	3186.6	2956.0	2849.8
47.5°	7179.9	7202.5	6688.4	5504.2	4507.5	4158.4	3880.4	3405.8	3089.4	2951.5
50°	8100.9	8116.7	7512.2	6187.8	5022.8	4590.0	4239.7	3651.0	3274.7	3096.2
52.5°	8819.6	8821.8	8260.2	6903.1	5559.5	5064.6	4627.3	3931.2	3489.4	3288.3
55°	9269.3	9263.6	8784.5	7580.0	6176.5	5562.9	5056.7	4249.9	3751.6	3514.3
57.5°	9595.9	9578.9	9146.1	8161.9	6834.2	6151.7	5542.6	4611.5	4061.2	3783.2
60°	9720.2	9710.0	9391.3	8664.8	7525.7	6802.5	6103.1	5016.0	4412.6	4100.7
62.5°	9767.6	9786.8	9632.0	9151.8	8265.9	7523.5	6718.9	5499.7	4808.1	4460.1
65°	9934.9	9969.9	9938.2	9789.1	9102.1	8367.6	7535.9	6074.8	5239.8	4845.4
67.5°	10265.9	10301.0	10314.5	10551.8	10123.6	9419.6	8555.1	6791.2	5744.9	5245.4
70°	10258.0	10247.9	10487.4	11158.6	11402.7	10876.1	9929.2	7672.6	6347.1	5577.6
72.5°	9337.1	9255.7	9821.9	11151.9	12467.2	12397.1	11607.2	8809.4	6866.9	5618.3
75°	7004.8	6787.8	7787.9	10050.1	12644.6	13260.4	12674.0	9514.5	6743.8	4964.0
77.5°	2995.6	2777.5	3956.1	7439.8	11316.8	12396.0	11695.4	8300.9	5383.3	3282.6
80°	784.2	783.1	1195.5	3373.0	7696.4	9154.0	8030.8	5360.7	3075.8	1172.9
82.5°	324.3	316.4	439.6	1311.9	3760.6	5136.9	4192.3	2391.1	1110.8	317.5
85°	120.9	119.8	213.6	453.1	1326.6	2118.7	1533.4	611.3	276.8	154.8
87.5°	33.9	32.8	46.3	157.1	323.2	490.4	262.2	100.6	78.0	61.0
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°
2436.3	0°	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3	2436.3
2440.8	2.5°	2444.2	2449.8	2460.0	2467.9	2478.1	2489.4	2505.2	2515.4	2525.5	2532.3
2446.4	5°	2454.3	2466.8	2492.8	2518.7	2549.3	2577.5	2610.3	2634.0	2653.2	2658.9
2466.8	7.5°	2476.9	2497.3	2541.3	2585.4	2634.0	2680.3	2727.8	2768.5	2801.2	2813.7
2502.9	10°	2516.5	2543.6	2605.8	2667.9	2732.3	2803.5	2864.5	2923.3	2969.6	2988.8
2545.9	12.5°	2566.2	2600.1	2681.5	2767.3	2856.6	2954.9	3034.0	3106.3	3164.0	3190.0
2605.8	15°	2630.6	2674.7	2778.6	2893.9	3025.0	3161.7	3262.3	3342.5	3406.9	3438.6
2667.9	17.5°	2700.7	2759.4	2890.5	3064.5	3252.1	3431.8	3549.3	3608.1	3674.7	3705.2
2725.5	20°	2768.5	2840.8	3028.4	3281.5	3531.2	3722.2	3817.1	3832.9	3837.4	3840.8
2779.8	22.5°	2838.5	2935.7	3201.3	3554.9	3822.8	3955.0	3968.5	3900.7	3805.8	3761.7
2832.9	25°	2915.4	3044.2	3427.3	3856.7	4073.6	4089.4	3985.5	3820.5	3640.8	3558.3
2875.8	27.5°	2989.9	3169.6	3698.5	4144.8	4254.4	4115.4	3891.7	3657.8	3440.8	3353.8
2906.3	30°	3064.5	3313.1	3997.9	4396.8	4336.9	4051.0	3743.7	3482.6	3264.5	3173.0
2933.5	32.5°	3140.2	3480.4	4342.5	4578.7	4322.2	3914.3	3559.5	3286.0	3093.9	2997.9
2957.2	35°	3226.1	3686.0	4669.1	4678.2	4223.9	3713.1	3316.5	3051.0	2883.7	2806.9
2985.4	37.5°	3338.0	3947.0	4957.3	4703.0	4052.1	3418.2	3014.8	2773.0	2635.1	2600.1
3027.2	40°	3477.0	4261.2	5177.6	4663.5	3797.9	3060.0	2684.9	2491.6	2413.7	2421.6
3083.7	42.5°	3657.8	4612.6	5332.4	4561.8	3444.2	2690.5	2395.6	2309.7	2347.0	2378.6
3168.5	45°	3892.8	4977.6	5428.5	4388.9	3044.2	2377.5	2224.9	2245.3	2273.5	2276.9
3305.2	47.5°	4193.4	5347.1	5491.7	4127.8	2636.3	2157.1	2116.5	2121.0	2115.3	2091.6
3509.7	50°	4568.5	5706.4	5548.2	3782.1	2289.4	2019.3	1965.0	1949.2	1871.3	1794.4
3782.1	52.5°	4995.7	6036.4	5572.0	3352.7	2019.3	1904.0	1815.9	1716.5	1570.7	1547.0
4124.5	55°	5470.3	6341.5	5511.0	2825.0	1792.2	1756.0	1622.7	1502.9	1487.1	1466.7
4575.3	57.5°	6037.5	6670.3	5386.7	2236.2	1559.4	1583.1	1453.2	1466.7	1438.5	1406.8
5155.0	60°	6657.9	7010.4	5168.6	1699.5	1318.7	1367.3	1409.1	1408.0	1400.1	1374.1
5766.3	62.5°	7216.1	7234.2	4739.2	1301.7	1107.4	1200.0	1314.2	1313.0	1306.3	1291.6
6404.8	65°	7548.3	7200.3	4022.8	1024.9	933.4	1062.2	1185.4	1194.4	1195.5	1194.4
6885.0	67.5°	7489.6	6803.7	3039.7	815.9	789.9	922.1	1057.7	1070.1	1079.1	1081.4
6946.0	70°	6825.1	5932.4	1982.0	650.9	662.2	798.9	936.8	949.2	957.1	966.1
6027.4	72.5°	5320.0	4361.8	1134.5	526.6	550.3	692.7	817.0	831.7	836.2	853.1
4194.5	75°	3241.9	2565.1	612.5	414.7	452.0	592.1	698.3	715.3	723.2	743.5
2060.0	77.5°	1541.3	1110.8	349.2	323.2	363.9	483.6	589.9	609.1	587.6	598.9
568.4	80°	520.9	412.4	220.3	246.3	278.0	377.4	472.3	491.5	446.3	444.1
188.7	82.5°	181.9	167.2	140.1	163.8	179.7	270.1	357.1	381.9	332.2	331.1
84.7	85°	71.2	67.8	78.0	89.3	107.3	166.1	235.0	247.5	204.5	165.0
24.9	87.5°	14.7	15.8	19.2	20.3	32.8	57.6	84.7	104.0	82.5	70.1
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>
2436.3
2527.8
2661.1
2814.8
2989.9
3190.0
3436.3
3704.1
3849.9
3774.2
3570.8
3364.0
3183.2
3010.3
2823.8
2625.0
2448.7
2408.0
2299.5
2109.7
1804.6
1554.9
1470.1
1401.2
1365.0
1285.9
1194.4
1083.7
970.7
859.9
745.8
589.9
439.6
315.3
162.7
64.4
0.0

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