

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: P950747

Luminaire Tested: **GALN-SB5A-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21299 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

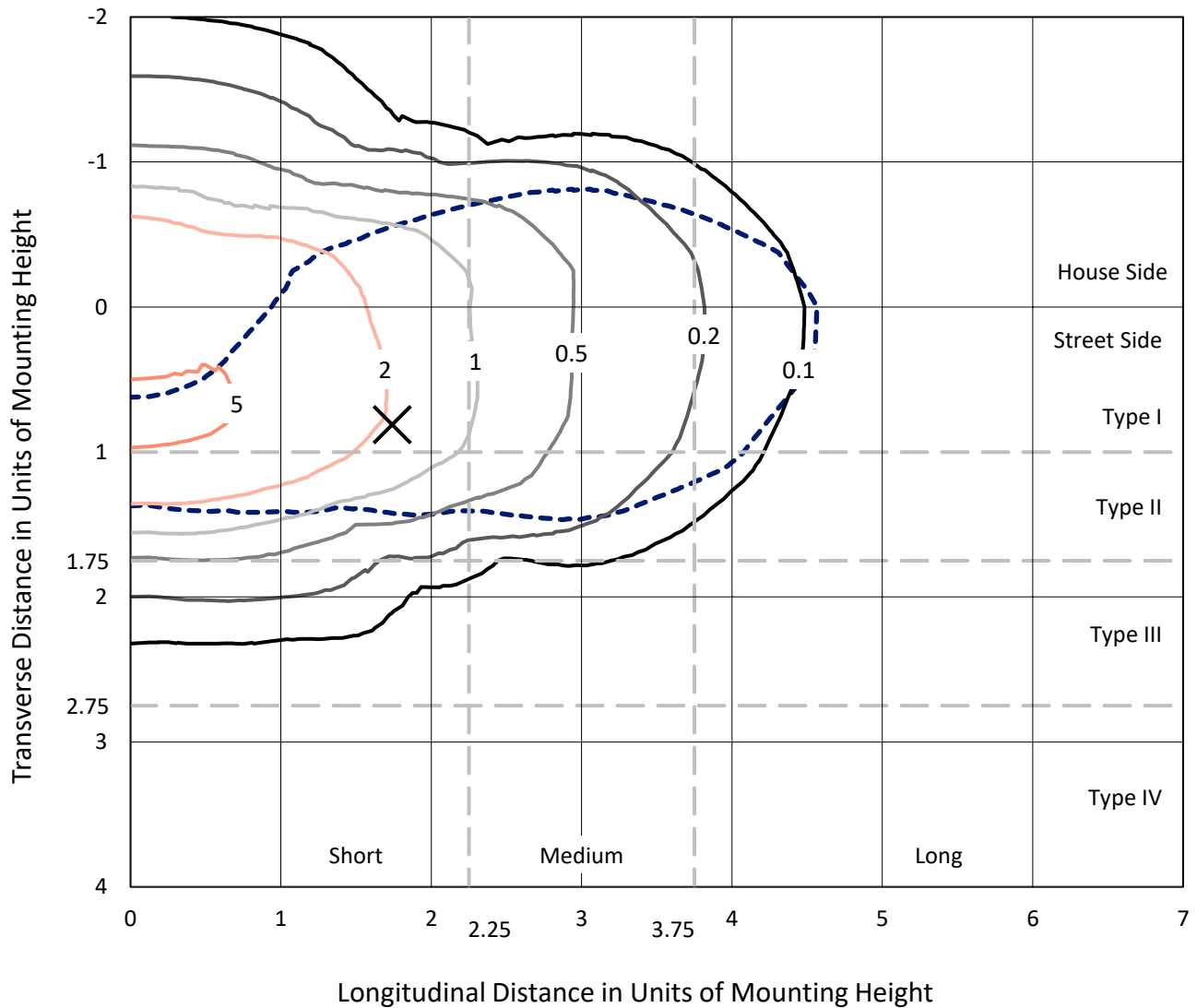
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

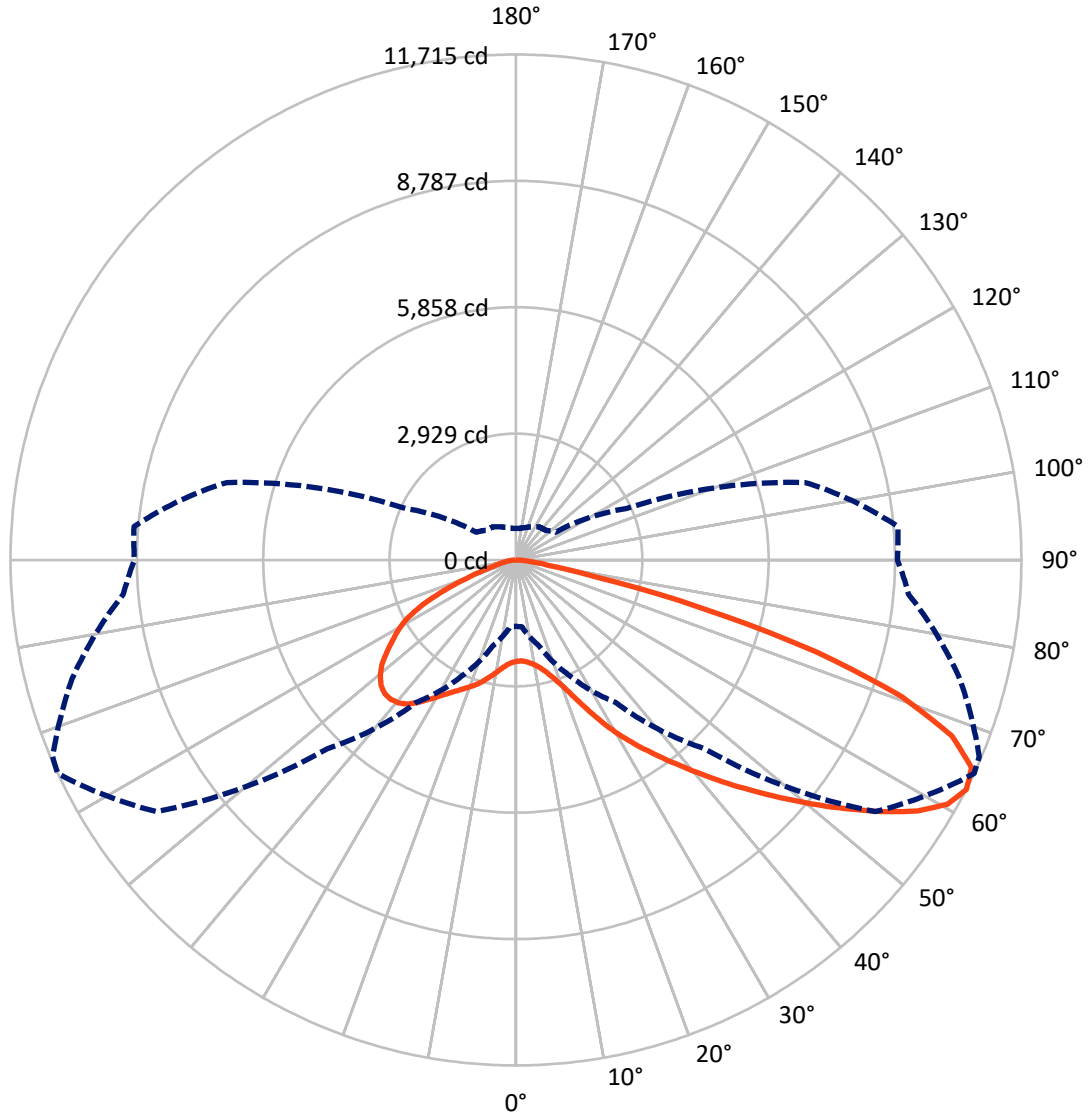
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6721.0	0.0	6721.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14578.0	0.0	14578.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	21299.0	0.0	21299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	1.1
10°-20°	793.5	3.7
20°-30°	1608.9	7.6
30°-40°	2784.2	13.1
40°-50°	4213.4	19.8
50°-60°	4939.9	23.2
60°-70°	4141.5	19.4
70°-80°	2286.5	10.7
80°-90°	297.0	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°	21299.0	100.0
0°-180°	21299.0	100.0



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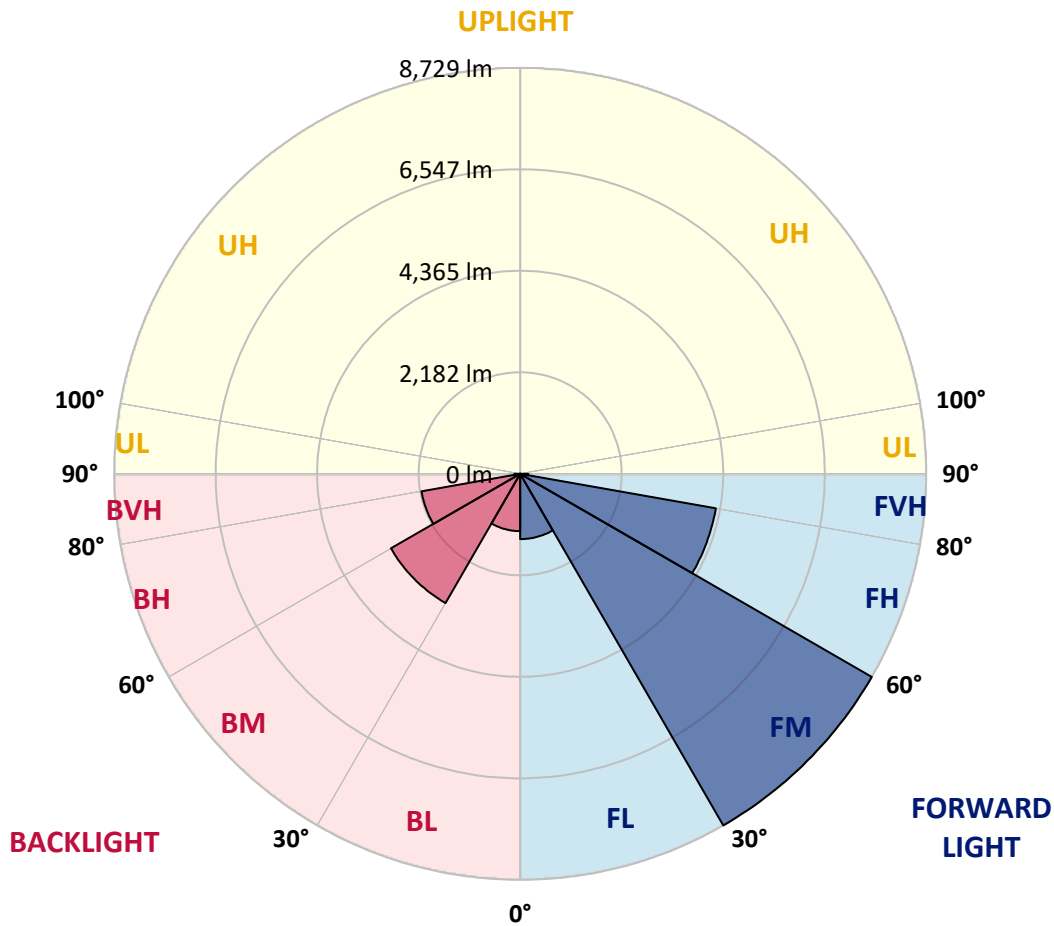
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.9	6.6			
FM (30°-60°)	8729.0	41.0			
FH (60°-80°)	4272.0	20.1			G2/5000
FVH (80°-90°)	173.1	0.8			G2/225
BL (0°-30°)	1232.6	5.8	B3/2500		
BM (30°-60°)	3208.5	15.1	B3/5000		
BH (60°-80°)	2156.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	123.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P950747

CATALOG NUMBER: GALN-SB5A-835-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2331.6	2325.0	2330.5	2330.5	2332.7	2331.6	2339.3	2341.5	2344.8	2351.5
5°	2308.4	2307.3	2317.2	2326.1	2334.9	2342.6	2352.6	2366.9	2369.2	2376.9
7.5°	2300.6	2294.0	2309.5	2320.5	2341.5	2360.3	2386.8	2411.1	2421.1	2424.4
10°	2360.3	2349.3	2363.6	2370.3	2387.9	2406.7	2437.7	2476.3	2487.4	2500.7
12.5°	2462.0	2449.8	2470.8	2480.8	2497.3	2513.9	2534.9	2572.5	2578.0	2602.3
15°	2601.2	2586.8	2600.1	2612.3	2639.9	2655.4	2676.4	2712.8	2712.8	2731.6
17.5°	2790.2	2771.4	2781.3	2785.7	2803.4	2826.6	2862.0	2894.0	2910.6	2904.0
20°	3071.9	3048.7	3048.7	3026.6	3020.0	3038.8	3085.2	3129.4	3147.1	3112.8
22.5°	3495.2	3462.0	3443.2	3368.1	3338.3	3340.5	3386.9	3441.0	3455.4	3394.6
25°	4033.3	3981.4	3956.0	3845.5	3778.1	3719.5	3756.0	3825.6	3845.5	3770.3
27.5°	4571.5	4574.8	4550.5	4417.9	4306.3	4199.1	4180.3	4253.2	4274.2	4189.1
30°	5326.2	5247.7	5201.3	5042.2	4883.1	4732.8	4655.4	4685.3	4690.8	4589.1
32.5°	5977.0	5957.2	5857.7	5718.5	5514.0	5278.7	5149.4	5101.9	5093.0	4948.3
35°	6718.5	6707.5	6602.5	6436.7	6215.7	5888.6	5655.5	5519.6	5508.5	5305.2
37.5°	7472.1	7472.1	7369.4	7188.1	6959.4	6550.5	6195.8	5980.4	5945.0	5679.8
40°	8073.3	8036.8	8055.6	7979.3	7717.4	7283.2	6795.9	6483.1	6435.6	6117.4
42.5°	8414.7	8402.6	8515.3	8600.4	8493.2	8146.2	7456.7	7027.9	6961.6	6599.2
45°	8491.0	8477.7	8678.8	8990.4	9140.7	8998.2	8174.9	7601.4	7520.7	7103.1
47.5°	8315.3	8288.7	8583.8	9075.5	9557.3	9808.1	8952.9	8223.5	8106.4	7593.7
50°	7787.1	7761.6	8208.1	8861.1	9697.6	10358.4	9797.1	8883.2	8704.2	8119.7
52.5°	6638.9	6651.1	7350.6	8247.9	9513.1	10701.0	10524.2	9578.3	9362.8	8657.8
55°	5171.5	5198.0	6057.7	7045.6	8774.9	10649.1	11020.3	10294.3	10080.0	9163.9
57.5°	3702.9	3820.0	4625.6	5603.5	7357.2	9825.8	11128.6	10975.0	10767.3	9716.4
60°	2400.1	2421.1	3249.9	4235.5	5602.4	8362.8	10908.7	11491.1	11328.6	10280.0
62.5°	1538.2	1552.5	2057.5	2962.6	4032.2	6187.0	10168.4	11715.4	11665.7	10652.4
65°	1130.4	1119.4	1382.4	1958.1	2716.1	3815.6	8730.7	11607.1	11705.5	10885.5
67.5°	943.7	928.2	1057.5	1355.9	2001.2	2166.9	6459.9	10903.2	11263.4	10859.0
70°	859.7	846.4	924.9	1006.7	1561.4	1450.9	3256.5	9478.8	10033.6	10557.3
72.5°	728.2	705.0	812.2	894.0	1214.4	1112.8	1345.9	7281.0	7957.2	9590.4
75°	564.7	549.2	640.9	786.8	912.7	868.5	850.9	4421.2	5159.3	7416.9
77.5°	447.5	426.5	510.5	613.3	821.0	655.3	619.9	1903.9	2635.5	4735.0
80°	337.0	318.2	387.9	485.1	631.0	493.9	401.1	776.8	993.4	2399.0
82.5°	239.8	223.2	270.7	355.8	424.3	443.1	246.4	435.4	489.5	924.9
85°	153.6	143.7	181.2	223.2	269.6	285.1	150.3	227.6	249.7	381.2
87.5°	84.0	68.5	97.2	103.9	124.9	113.8	71.8	82.9	89.5	138.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950747
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2347.1	0°	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1	2347.1
2351.5	2.5°	2355.9	2359.2	2370.3	2373.6	2381.3	2391.3	2397.9	2404.5	2404.5	2411.1
2386.8	5°	2387.9	2395.7	2418.9	2431.0	2450.9	2470.8	2483.0	2497.3	2506.2	2510.6
2443.2	7.5°	2449.8	2462.0	2495.1	2516.1	2550.4	2578.0	2596.8	2616.7	2621.1	2633.3
2521.7	10°	2533.8	2548.2	2585.7	2625.5	2666.4	2700.7	2718.3	2732.7	2738.2	2740.4
2622.2	12.5°	2629.9	2650.9	2699.6	2748.2	2791.3	2821.1	2825.5	2822.2	2806.7	2793.5
2746.0	15°	2748.2	2767.0	2821.1	2874.2	2916.1	2921.7	2894.0	2876.4	2857.6	2854.3
2884.1	17.5°	2889.6	2899.6	2949.3	3001.2	3004.5	2985.8	2944.9	2928.3	2910.6	2898.5
3064.2	20°	3054.3	3051.0	3086.3	3108.4	3085.2	3027.7	2965.9	2938.2	2920.6	2906.2
3285.2	22.5°	3251.0	3225.5	3221.1	3215.6	3153.7	3033.3	2949.3	2913.9	2886.3	2866.4
3593.5	25°	3537.2	3439.9	3372.5	3334.9	3195.7	3003.4	2896.3	2817.8	2765.9	2731.6
3970.3	27.5°	3895.2	3731.6	3561.5	3469.8	3195.7	2942.7	2768.1	2641.0	2555.9	2520.5
4335.0	30°	4236.6	4065.4	3814.5	3632.2	3188.0	2843.2	2561.4	2384.6	2285.2	2249.8
4646.6	32.5°	4528.4	4341.6	4083.0	3810.1	3169.2	2681.9	2305.1	2109.5	2013.3	1971.4
4954.9	35°	4799.1	4600.2	4352.7	4005.7	3119.5	2445.4	2023.3	1874.1	1766.9	1699.5
5268.7	37.5°	5076.5	4840.0	4607.9	4182.5	3030.0	2169.1	1806.7	1679.6	1553.7	1463.0
5602.4	40°	5378.1	5095.2	4880.9	4287.5	2883.0	1906.2	1638.7	1522.7	1389.0	1292.9
5987.0	42.5°	5730.6	5401.3	5184.7	4341.6	2681.9	1719.4	1529.3	1415.5	1289.6	1211.1
6399.2	45°	6098.6	5738.4	5462.1	4340.5	2457.6	1632.1	1494.0	1381.3	1242.0	1160.3
6822.4	47.5°	6484.2	6090.9	5701.9	4269.8	2263.1	1644.3	1474.1	1307.2	1153.6	1074.1
7250.0	50°	6871.0	6476.5	5933.9	4137.2	2180.2	1617.7	1400.1	1203.4	1022.1	950.3
7651.1	52.5°	7254.4	6886.5	6134.0	3948.2	2096.2	1519.4	1305.0	1068.6	968.0	918.3
8065.5	55°	7640.1	7292.0	6351.6	3673.1	1886.3	1404.5	1145.9	1017.7	924.9	879.6
8471.1	57.5°	8026.8	7760.5	6558.3	3397.9	1622.2	1263.0	1058.6	955.8	881.8	843.1
8810.3	60°	8429.1	8296.5	6771.5	3144.9	1361.4	1081.8	994.5	906.1	831.0	787.9
9136.3	62.5°	8843.5	8886.6	6938.4	2818.9	1121.6	971.3	937.1	846.4	773.5	732.6
9405.9	65°	9261.2	9455.6	7047.8	2366.9	909.4	866.3	875.2	781.2	707.2	671.9
9603.7	67.5°	9576.1	9865.6	7016.9	1791.2	745.9	766.9	797.8	712.7	643.1	615.5
9571.7	70°	9611.4	9817.0	6711.9	1226.6	624.3	669.6	711.6	645.3	573.5	553.6
9120.8	72.5°	9140.7	9154.0	5862.1	801.1	528.2	587.9	621.0	576.8	507.2	487.3
7979.3	75°	7906.4	7570.5	4304.0	528.2	442.0	505.0	535.9	505.0	437.6	442.0
5970.4	77.5°	5990.3	5361.5	2613.4	375.7	369.1	424.3	466.3	444.2	386.8	434.3
3002.3	80°	3086.3	2900.7	1165.8	280.7	291.7	339.2	383.4	354.7	306.1	291.7
670.7	82.5°	707.2	822.1	459.7	201.1	211.1	244.2	292.8	266.3	219.9	185.6
279.6	85°	247.5	270.7	203.3	126.0	123.8	152.5	198.9	177.9	149.2	119.3
118.2	87.5°	78.5	102.8	76.2	50.8	53.0	68.5	91.7	84.0	69.6	45.3
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>
2347.1
2411.1
2512.8
2628.8
2734.9
2793.5
2854.3
2899.6
2907.3
2873.0
2744.9
2538.2
2270.8
1992.3
1721.6
1487.4
1311.7
1226.6
1173.5
1085.1
954.7
918.3
875.2
836.5
784.6
731.5
670.7
616.6
554.7
486.2
426.5
382.3
266.3
183.4
126.0
47.5
0.0

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