

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: P950180

Luminaire Tested: **GALN-SB4C-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950180
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-SB4C-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21160 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

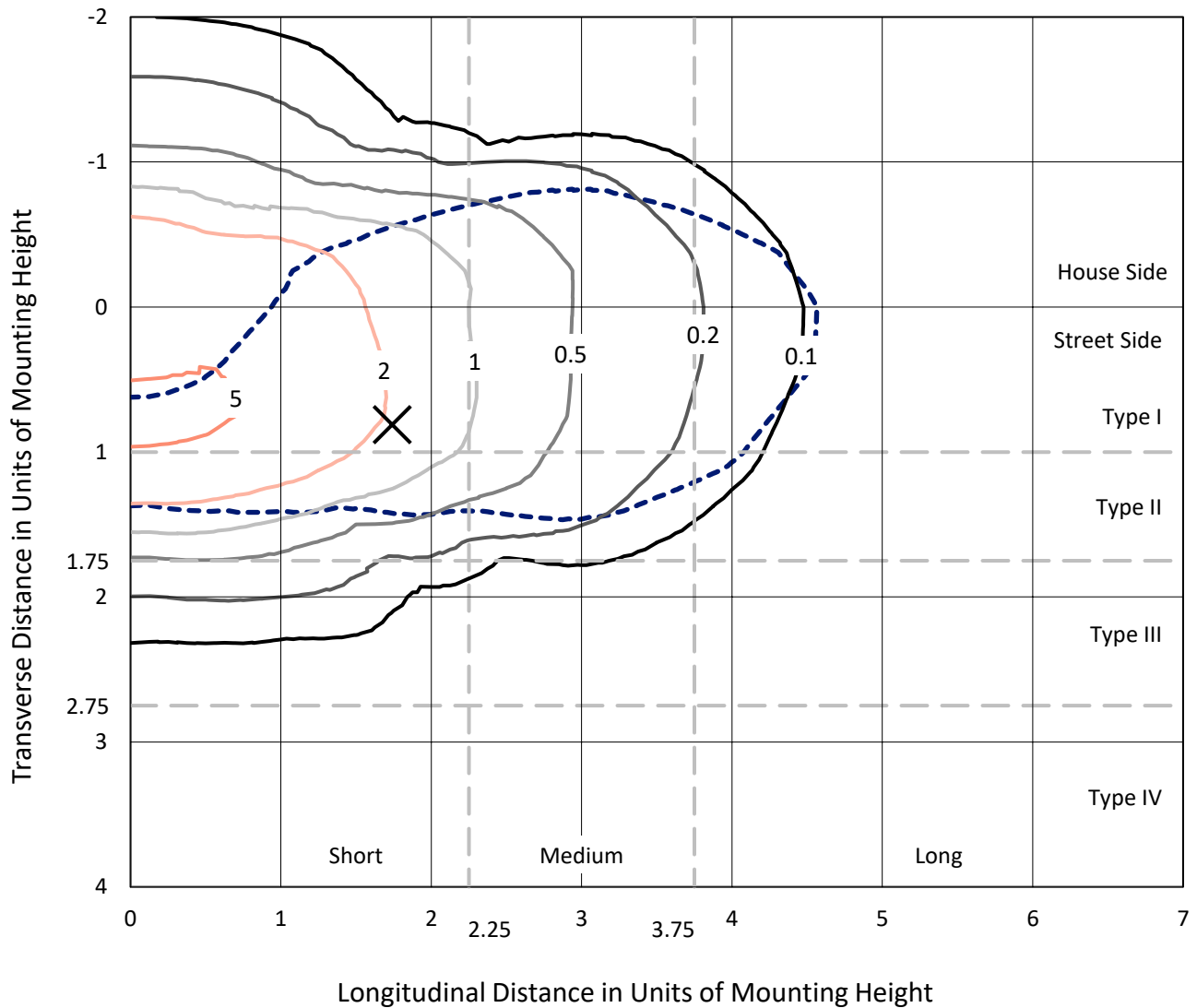
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

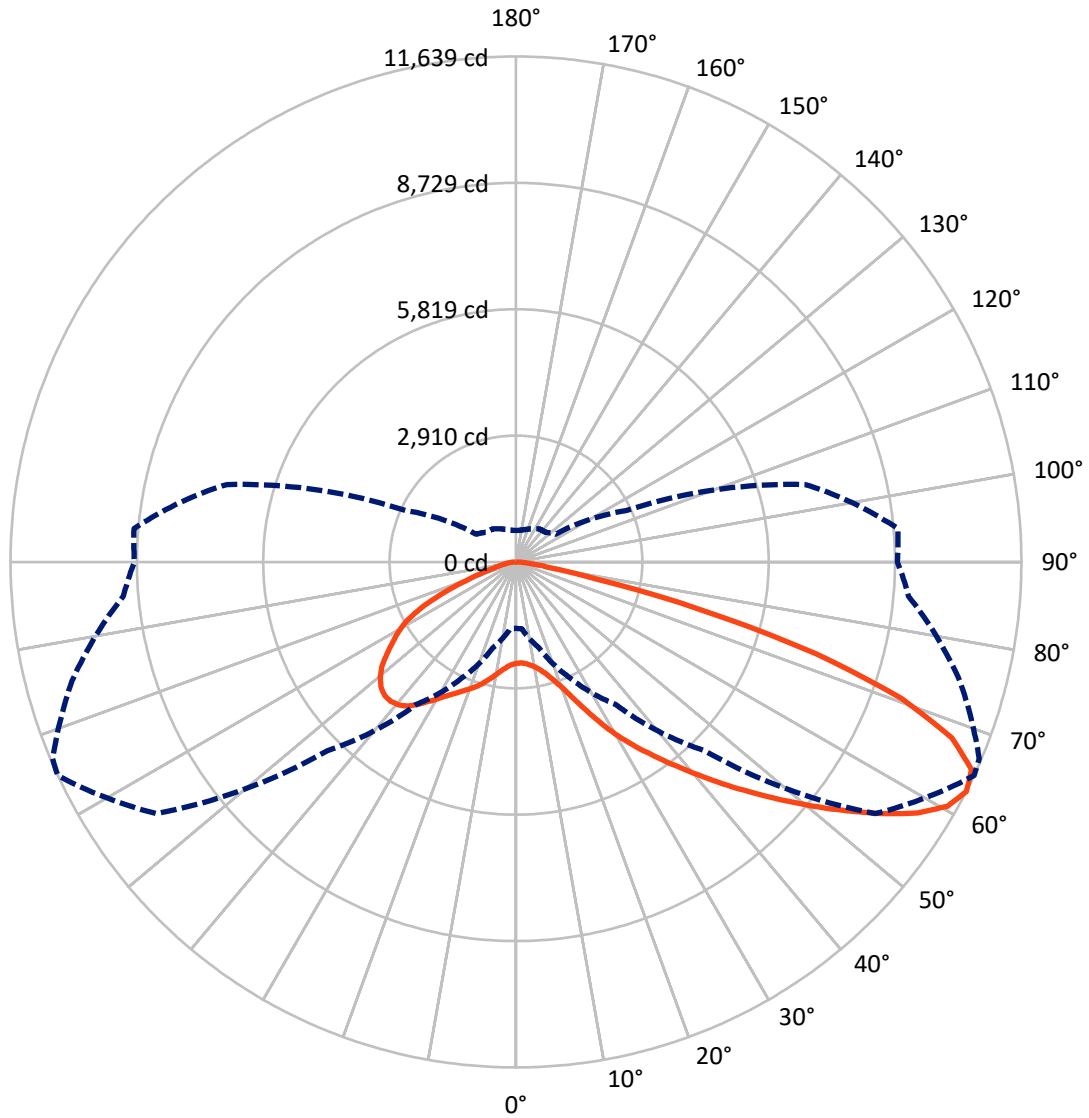
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	6677.2	0.0	6677.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14482.8	0.0	14482.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	21160.0	0.0	21160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	1.1
10°-20°	788.3	3.7
20°-30°	1598.4	7.6
30°-40°	2766.1	13.1
40°-50°	4185.9	19.8
50°-60°	4907.7	23.2
60°-70°	4114.5	19.4
70°-80°	2271.5	10.7
80°-90°	295.1	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°	21160.0	100.0
0°-180°	21160.0	100.0



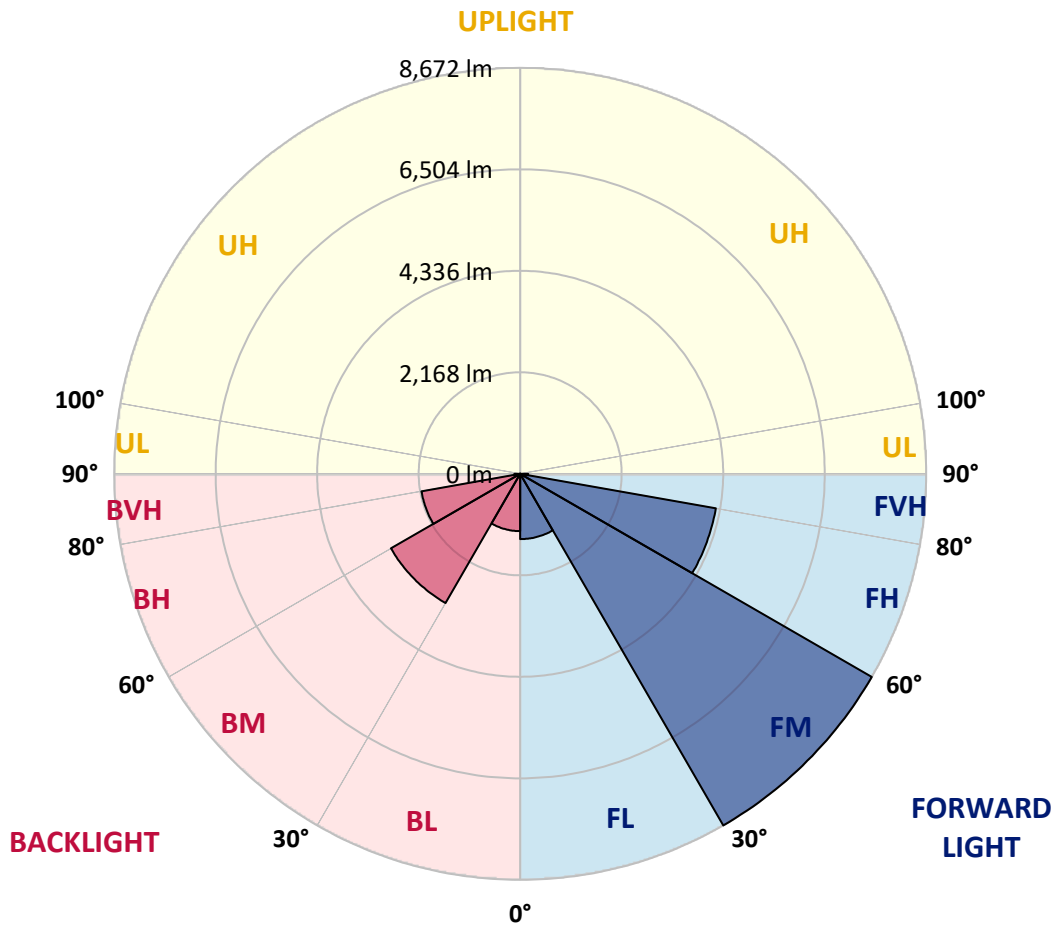
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.7	6.6			
FM (30°-60°)	8672.1	41.0			
FH (60°-80°)	4244.1	20.1			G2/5000
FVH (80°-90°)	172.0	0.8			G2/225
BL (0°-30°)	1224.5	5.8	B3/2500		
BM (30°-60°)	3187.6	15.1	B3/5000		
BH (60°-80°)	2142.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	123.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7
2.5°	2316.4	2309.8	2315.3	2315.3	2317.5	2316.4	2324.1	2326.3	2329.5	2336.1
5°	2293.3	2292.2	2302.1	2310.9	2319.7	2327.3	2337.2	2351.5	2353.7	2361.4
7.5°	2285.6	2279.0	2294.4	2305.4	2326.3	2344.9	2371.3	2395.4	2405.3	2408.6
10°	2344.9	2333.9	2348.2	2354.8	2372.4	2391.0	2421.8	2460.2	2471.2	2484.3
12.5°	2445.9	2433.8	2454.7	2464.6	2481.0	2497.5	2518.4	2555.7	2561.2	2585.3
15°	2584.2	2570.0	2583.1	2595.2	2622.7	2638.0	2658.9	2695.1	2695.1	2713.8
17.5°	2772.0	2753.3	2763.2	2767.6	2785.1	2808.2	2843.3	2875.2	2891.6	2885.0
20°	3051.9	3028.8	3028.8	3006.9	3000.3	3019.0	3065.1	3109.0	3126.6	3092.5
22.5°	3472.4	3439.4	3420.8	3346.1	3316.5	3318.7	3364.8	3418.6	3432.8	3372.5
25°	4007.0	3955.4	3930.1	3820.4	3753.4	3695.2	3731.4	3800.6	3820.4	3745.7
27.5°	4541.6	4544.9	4520.8	4389.0	4278.2	4171.7	4153.0	4225.5	4246.3	4161.8
30°	5291.4	5213.5	5167.4	5009.3	4851.2	4701.9	4625.1	4654.7	4660.2	4559.2
32.5°	5938.0	5918.3	5819.5	5681.1	5478.1	5244.2	5115.8	5068.6	5059.8	4916.0
35°	6674.7	6663.7	6559.4	6394.7	6175.2	5850.2	5618.6	5483.5	5472.6	5270.6
37.5°	7423.4	7423.4	7321.3	7141.2	6914.0	6507.8	6155.4	5941.3	5906.2	5642.7
40°	8020.6	7984.3	8003.0	7927.3	7667.1	7235.6	6751.5	6440.8	6393.6	6077.5
42.5°	8359.8	8347.7	8459.7	8544.2	8437.7	8093.0	7408.0	6982.0	6916.2	6556.1
45°	8435.5	8422.4	8622.2	8931.8	9081.1	8939.4	8121.6	7551.8	7471.7	7056.7
47.5°	8261.0	8234.6	8527.8	9016.3	9494.9	9744.1	8894.4	8169.9	8053.5	7544.1
50°	7736.2	7711.0	8154.5	8803.3	9634.3	10290.8	9733.1	8825.3	8647.4	8066.7
52.5°	6595.6	6607.7	7302.6	8194.0	9451.0	10631.2	10455.5	9515.8	9301.7	8601.3
55°	5137.7	5164.1	6018.2	6999.6	8717.7	10579.6	10948.4	10227.2	10014.2	9104.1
57.5°	3678.7	3795.1	4595.4	5567.0	7309.2	9761.7	11056.0	10903.4	10697.0	9653.0
60°	2384.4	2405.3	3228.6	4207.9	5565.9	8308.2	10837.5	11416.1	11254.7	10212.9
62.5°	1528.1	1542.4	2044.1	2943.2	4005.9	6146.6	10102.0	11638.9	11589.5	10582.9
65°	1123.1	1112.1	1373.4	1945.3	2698.4	3790.7	8673.8	11531.4	11629.1	10814.5
67.5°	937.5	922.2	1050.6	1347.0	1988.1	2152.8	6417.8	10832.1	11189.9	10788.1
70°	854.1	840.9	918.9	1000.1	1551.2	1441.4	3235.2	9417.0	9968.1	10488.4
72.5°	723.5	700.4	806.9	888.1	1206.5	1105.5	1337.1	7233.4	7905.3	9527.9
75°	561.0	545.6	636.7	781.6	906.8	862.9	845.3	4392.3	5125.7	7368.5
77.5°	444.6	423.8	507.2	609.3	815.7	651.0	615.9	1891.5	2618.3	4704.1
80°	334.8	316.2	385.3	481.9	626.8	490.7	398.5	771.8	986.9	2383.3
82.5°	238.2	221.8	269.0	353.5	421.6	440.2	244.8	432.5	486.3	918.9
85°	152.6	142.7	180.0	221.8	267.9	283.2	149.3	226.1	248.1	378.7
87.5°	83.4	68.1	96.6	103.2	124.1	113.1	71.4	82.3	88.9	137.2
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°
2331.7	0°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7
2336.1	2.5°	2340.5	2343.8	2354.8	2358.1	2365.8	2375.7	2382.2	2388.8	2388.8	2395.4
2371.3	5°	2372.4	2380.0	2403.1	2415.2	2434.9	2454.7	2466.8	2481.0	2489.8	2494.2
2427.2	7.5°	2433.8	2445.9	2478.8	2499.7	2533.7	2561.2	2579.8	2599.6	2604.0	2616.1
2505.2	10°	2517.3	2531.5	2568.9	2608.4	2649.0	2683.0	2700.6	2714.9	2720.4	2722.6
2605.1	12.5°	2612.8	2633.6	2681.9	2730.2	2773.1	2802.7	2807.1	2803.8	2788.4	2775.3
2728.0	15°	2730.2	2748.9	2802.7	2855.4	2897.1	2902.6	2875.2	2857.6	2838.9	2835.6
2865.3	17.5°	2870.8	2880.6	2930.0	2981.6	2984.9	2966.3	2925.7	2909.2	2891.6	2879.5
3044.2	20°	3034.3	3031.0	3066.2	3088.1	3065.1	3008.0	2946.5	2919.1	2901.5	2887.2
3263.8	22.5°	3229.7	3204.5	3200.1	3194.6	3133.1	3013.5	2930.0	2894.9	2867.5	2847.7
3570.1	25°	3514.1	3417.5	3350.5	3313.2	3174.9	2983.8	2877.3	2799.4	2747.8	2713.8
3944.4	27.5°	3869.8	3707.3	3538.2	3447.1	3174.9	2923.5	2750.0	2623.8	2539.2	2504.1
4306.7	30°	4209.0	4038.8	3789.6	3608.5	3167.2	2824.7	2544.7	2369.1	2270.3	2235.1
4616.3	32.5°	4498.8	4313.3	4056.4	3785.2	3148.5	2664.4	2290.0	2095.7	2000.2	1958.5
4922.6	35°	4767.8	4570.2	4324.3	3979.5	3099.1	2429.4	2010.1	1861.9	1755.4	1688.4
5234.3	37.5°	5043.3	4808.4	4577.9	4155.2	3010.2	2155.0	1794.9	1668.7	1543.5	1453.5
5565.9	40°	5343.0	5062.0	4849.0	4259.5	2864.2	1893.7	1628.0	1512.8	1379.9	1284.4
5947.9	42.5°	5693.2	5366.1	5150.9	4313.3	2664.4	1708.2	1519.4	1406.3	1281.1	1203.2
6357.4	45°	6058.8	5700.9	5426.5	4312.2	2441.5	1621.5	1484.2	1372.3	1233.9	1152.7
6777.9	47.5°	6441.9	6051.1	5664.7	4241.9	2248.3	1633.5	1464.5	1298.7	1146.1	1067.1
7202.7	50°	6826.2	6434.2	5895.2	4110.2	2166.0	1607.2	1390.9	1195.5	1015.5	944.1
7601.2	52.5°	7207.1	6841.5	6093.9	3922.5	2082.5	1509.5	1296.5	1061.6	961.7	912.3
8012.9	55°	7590.2	7244.4	6310.2	3649.1	1874.0	1395.3	1138.4	1011.1	918.9	873.9
8415.8	57.5°	7974.5	7709.9	6515.5	3375.8	1611.6	1254.8	1051.7	949.6	876.0	837.6
8752.8	60°	8374.1	8242.3	6727.4	3124.4	1352.5	1074.8	988.0	900.2	825.6	782.7
9076.7	62.5°	8785.7	8828.6	6893.1	2800.5	1114.3	965.0	930.9	840.9	768.5	727.8
9344.5	65°	9200.7	9393.9	7001.8	2351.5	903.5	860.7	869.5	776.1	702.6	667.5
9541.0	67.5°	9513.6	9801.2	6971.1	1779.5	741.0	761.9	792.6	708.1	638.9	611.5
9509.2	70°	9548.7	9752.9	6668.1	1218.6	620.3	665.3	707.0	641.1	569.8	550.0
9061.3	72.5°	9081.1	9094.2	5823.9	795.9	524.8	584.0	617.0	573.1	503.9	484.1
7927.3	75°	7854.8	7521.1	4276.0	524.8	439.1	501.7	532.4	501.7	434.7	439.1
5931.4	77.5°	5951.2	5326.6	2596.3	373.3	366.7	421.6	463.3	441.3	384.2	431.4
2982.7	80°	3066.2	2881.7	1158.2	278.8	289.8	337.0	380.9	352.4	304.1	289.8
666.4	82.5°	702.6	816.8	456.7	199.8	209.7	242.6	290.9	264.6	218.5	184.4
277.7	85°	245.9	269.0	202.0	125.1	123.0	151.5	197.6	176.7	148.2	118.6
117.5	87.5°	77.9	102.1	75.7	50.5	52.7	68.1	91.1	83.4	69.2	45.0
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>
2331.7
2395.4
2496.4
2611.7
2717.1
2775.3
2835.6
2880.6
2888.3
2854.3
2727.0
2521.7
2256.0
1979.3
1710.4
1477.6
1303.1
1218.6
1165.9
1078.0
948.5
912.3
869.5
831.0
779.4
726.7
666.4
612.6
551.1
483.0
423.8
379.8
264.6
182.2
125.1
47.2
0.0

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