

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: P953666

Luminaire Tested: **GALN-SB7A-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953666
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-SB7A-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19678 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

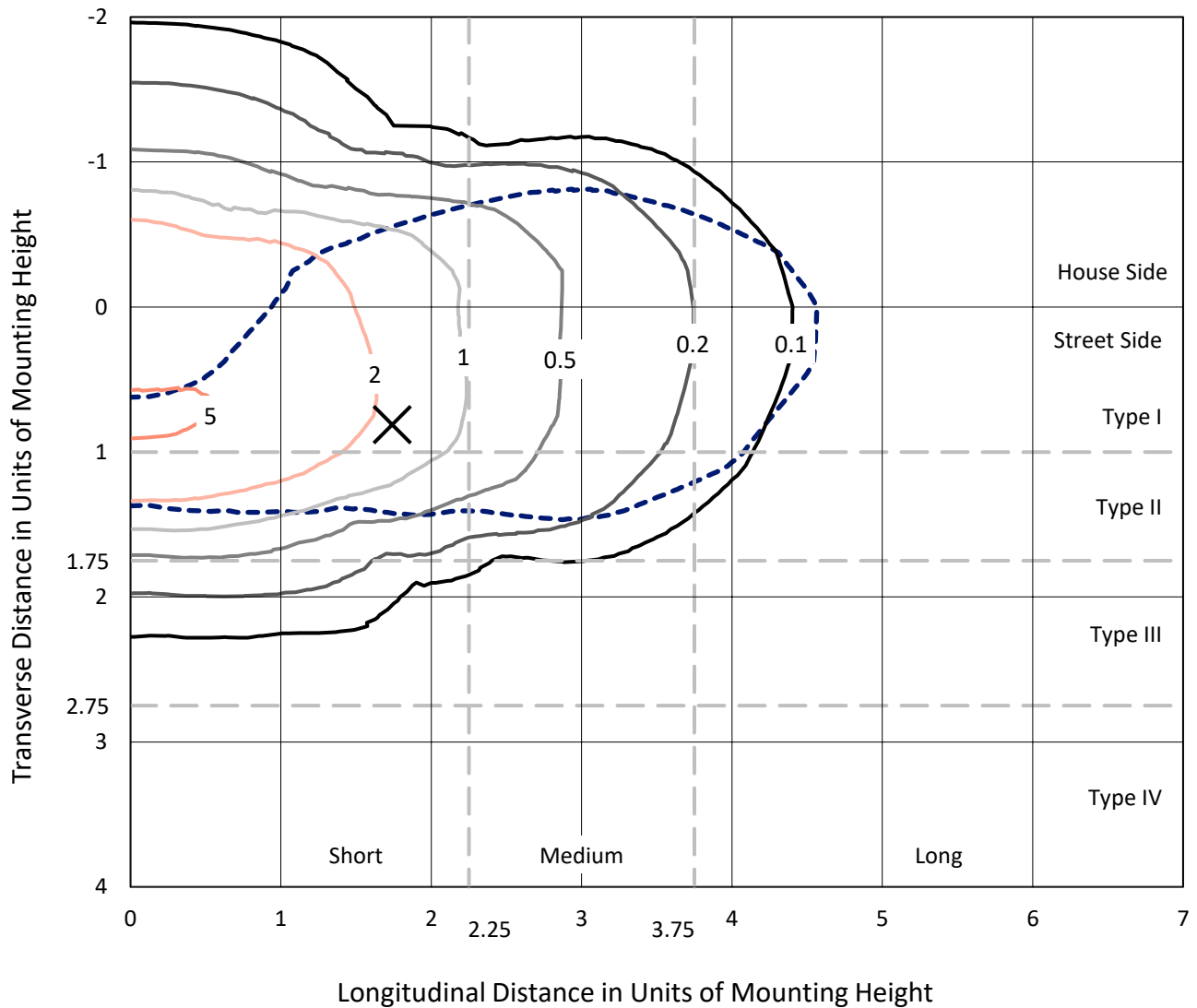
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

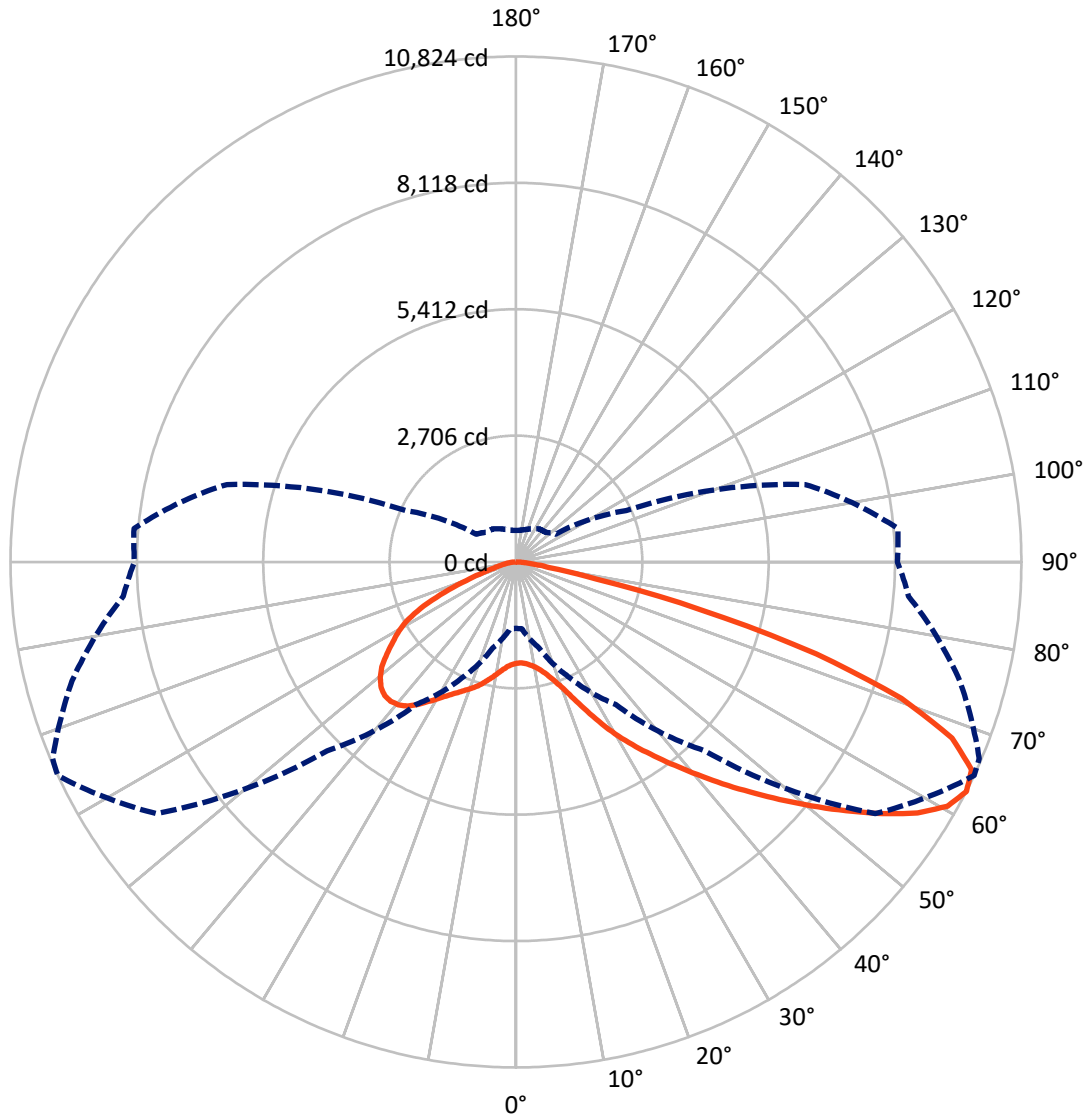
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	6209.5	0.0	6209.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13468.5	0.0	13468.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	19678.0	0.0	19678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	1.1
10°-20°	733.1	3.7
20°-30°	1486.5	7.6
30°-40°	2572.3	13.1
40°-50°	3892.7	19.8
50°-60°	4564.0	23.2
60°-70°	3826.3	19.4
70°-80°	2112.5	10.7
80°-90°	274.4	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°	19678.0	100.0
0°-180°	19678.0	100.0

Coefficient of Utilization



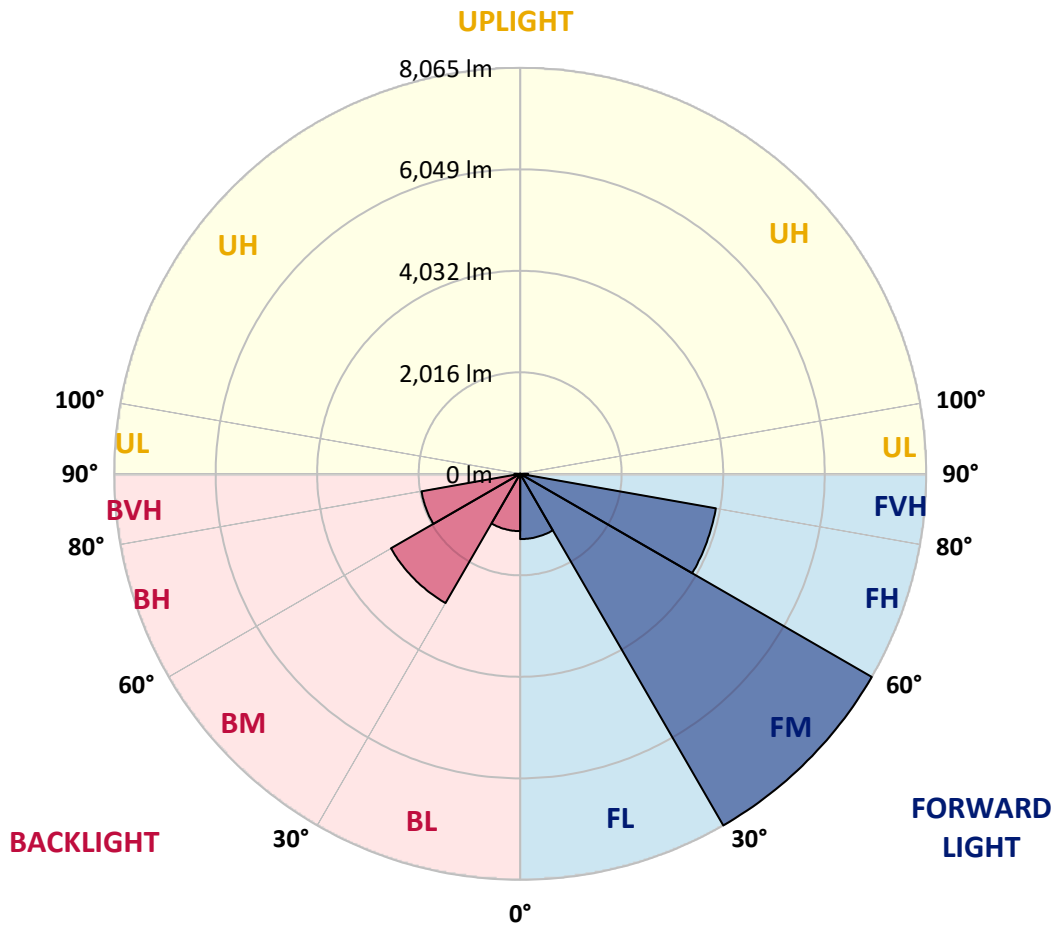
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.0	6.6			
FM (30°-60°)	8064.7	41.0			
FH (60°-80°)	3946.8	20.1			G2/5000
FVH (80°-90°)	159.9	0.8			G2/225
BL (0°-30°)	1138.7	5.8	B3/2500		
BM (30°-60°)	2964.3	15.1	B3/5000		
BH (60°-80°)	1992.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	114.5	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°	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4
2.5°	2154.1	2148.0	2153.1	2153.1	2155.2	2154.1	2161.3	2163.3	2166.4	2172.5
5°	2132.7	2131.7	2140.9	2149.0	2157.2	2164.3	2173.5	2186.8	2188.8	2196.0
7.5°	2125.6	2119.4	2133.7	2143.9	2163.3	2180.7	2205.2	2227.6	2236.8	2239.9
10°	2180.7	2170.5	2183.7	2189.9	2206.2	2223.6	2252.1	2287.9	2298.1	2310.3
12.5°	2274.6	2263.4	2282.8	2292.0	2307.3	2322.6	2342.0	2376.7	2381.8	2404.3
15°	2403.2	2390.0	2402.2	2413.5	2439.0	2453.3	2472.7	2506.4	2506.4	2523.7
17.5°	2577.8	2560.5	2569.7	2573.7	2590.1	2611.5	2644.2	2673.8	2689.1	2683.0
20°	2838.2	2816.7	2816.7	2796.3	2790.2	2807.5	2850.4	2891.2	2907.6	2875.9
22.5°	3229.2	3198.5	3181.2	3111.8	3084.2	3086.2	3129.1	3179.1	3192.4	3136.3
25°	3726.4	3678.4	3654.9	3552.8	3490.5	3436.4	3470.1	3534.4	3552.8	3483.4
27.5°	4223.5	4226.6	4204.1	4081.6	3978.5	3879.5	3862.1	3929.5	3948.9	3870.3
30°	4920.8	4848.3	4805.5	4658.4	4511.4	4372.6	4301.1	4328.7	4333.8	4239.9
32.5°	5522.1	5503.8	5411.9	5283.3	5094.4	4876.9	4757.5	4713.6	4705.4	4571.7
35°	6207.2	6197.0	6100.0	5946.8	5742.7	5440.5	5225.1	5099.5	5089.3	4901.4
37.5°	6903.4	6903.4	6808.5	6641.1	6429.7	6052.0	5724.3	5525.2	5492.5	5247.5
40°	7458.8	7425.1	7442.5	7372.1	7130.1	6728.9	6278.6	5989.7	5945.8	5651.8
42.5°	7774.3	7763.1	7867.2	7945.8	7846.8	7526.2	6889.2	6493.0	6431.8	6096.9
45°	7844.7	7832.5	8018.3	8306.2	8445.0	8313.3	7552.8	7022.9	6948.4	6562.5
47.5°	7682.4	7657.9	7930.5	8384.8	8829.9	9061.7	8271.5	7597.7	7489.5	7015.7
50°	7194.4	7170.9	7583.4	8186.7	8959.6	9570.1	9051.5	8207.2	8041.8	7501.7
52.5°	6133.7	6144.9	6791.1	7620.1	8789.1	9886.6	9723.2	8849.3	8650.2	7998.9
55°	4777.9	4802.4	5596.7	6509.4	8107.1	9838.6	10181.6	9510.9	9312.8	8466.5
57.5°	3421.1	3529.3	4273.6	5177.1	6797.3	9078.0	10281.7	10139.8	9947.8	8976.9
60°	2217.4	2236.8	3002.5	3913.2	5176.1	7726.3	10078.5	10616.5	10466.5	9497.6
62.5°	1421.1	1434.4	1900.9	2737.1	3725.3	5716.1	9394.5	10823.8	10777.8	9841.7
65°	1044.4	1034.2	1277.2	1809.1	2509.4	3525.2	8066.3	10723.7	10814.6	10057.1
67.5°	871.9	857.6	977.0	1252.7	1848.9	2002.0	5968.3	10073.4	10406.2	10032.6
70°	794.3	782.0	854.5	930.1	1442.6	1340.5	3008.6	8757.4	9269.9	9753.9
72.5°	672.8	651.3	750.4	825.9	1122.0	1028.1	1243.5	6726.8	7351.6	8860.5
75°	521.7	507.4	592.1	726.9	843.3	802.4	786.1	4084.7	4766.7	6852.4
77.5°	413.5	394.1	471.7	566.6	758.5	605.4	572.7	1759.0	2434.9	4374.6
80°	311.4	294.0	358.3	448.2	582.9	456.4	370.6	717.7	917.8	2216.4
82.5°	221.5	206.2	250.1	328.7	392.0	409.4	227.7	402.2	452.3	854.5
85°	141.9	132.7	167.4	206.2	249.1	263.4	138.8	210.3	230.7	352.2
87.5°	77.6	63.3	89.8	96.0	115.4	105.2	66.4	76.6	82.7	127.6
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°
2168.4	0°	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4
2172.5	2.5°	2176.6	2179.7	2189.9	2192.9	2200.1	2209.3	2215.4	2221.5	2221.5	2227.6
2205.2	5°	2206.2	2213.4	2234.8	2246.0	2264.4	2282.8	2294.0	2307.3	2315.4	2319.5
2257.3	7.5°	2263.4	2274.6	2305.2	2324.6	2356.3	2381.8	2399.2	2417.5	2421.6	2432.8
2329.7	10°	2341.0	2354.2	2388.9	2425.7	2463.5	2495.1	2511.5	2524.7	2529.8	2531.9
2422.6	12.5°	2429.8	2449.2	2494.1	2539.0	2578.8	2606.4	2610.5	2607.4	2593.1	2580.9
2537.0	15°	2539.0	2556.4	2606.4	2655.4	2694.2	2699.3	2673.8	2657.5	2640.1	2637.0
2664.6	17.5°	2669.7	2678.9	2724.8	2772.8	2775.9	2758.5	2720.7	2705.4	2689.1	2677.9
2831.0	20°	2821.8	2818.8	2851.4	2871.8	2850.4	2797.3	2740.1	2714.6	2698.3	2685.0
3035.2	22.5°	3003.5	2980.1	2976.0	2970.9	2913.7	2802.4	2724.8	2692.2	2666.6	2648.3
3320.0	25°	3268.0	3178.1	3115.8	3081.1	2952.5	2774.9	2675.8	2603.3	2555.4	2523.7
3668.2	27.5°	3598.7	3447.6	3290.4	3205.7	2952.5	2718.7	2557.4	2440.0	2361.4	2328.7
4005.1	30°	3914.2	3756.0	3524.2	3355.8	2945.3	2626.8	2366.5	2203.1	2111.3	2078.6
4293.0	32.5°	4183.7	4011.2	3772.3	3520.1	2928.0	2477.8	2129.6	1948.9	1860.1	1821.3
4577.8	35°	4433.8	4250.1	4021.4	3700.8	2882.1	2259.3	1869.3	1731.5	1632.4	1570.2
4867.7	37.5°	4690.1	4471.6	4257.2	3864.2	2799.4	2004.1	1669.2	1551.8	1435.4	1351.7
5176.1	40°	4968.8	4707.5	4509.4	3961.2	2663.6	1761.1	1514.0	1406.8	1283.3	1194.5
5531.3	42.5°	5294.5	4990.2	4790.1	4011.2	2477.8	1588.5	1413.0	1307.8	1191.4	1118.9
5912.1	45°	5634.4	5301.6	5046.4	4010.2	2270.5	1507.9	1380.3	1276.1	1147.5	1072.0
6303.1	47.5°	5990.7	5627.3	5267.9	3944.8	2090.8	1519.1	1361.9	1207.7	1065.8	992.3
6698.2	50°	6348.1	5983.6	5482.3	3822.3	2014.3	1494.6	1293.5	1111.8	944.3	878.0
7068.8	52.5°	6702.3	6362.4	5667.1	3647.7	1936.7	1403.8	1205.7	987.2	894.3	848.4
7451.7	55°	7058.6	6737.0	5868.2	3393.5	1742.7	1297.6	1058.7	940.3	854.5	812.7
7826.4	57.5°	7415.9	7169.9	6059.1	3139.3	1498.7	1166.9	978.0	883.1	814.7	779.0
8139.8	60°	7787.6	7665.1	6256.2	2905.5	1257.8	999.5	918.8	837.2	767.7	727.9
8441.0	62.5°	8170.4	8210.2	6410.3	2604.4	1036.2	897.4	865.7	782.0	714.6	676.9
8690.1	65°	8556.3	8736.0	6511.4	2186.8	840.2	800.4	808.6	721.8	653.4	620.7
8872.8	67.5°	8847.3	9114.8	6482.8	1654.9	689.1	708.5	737.1	658.5	594.2	568.7
8843.2	70°	8879.9	9069.8	6201.1	1133.2	576.8	618.7	657.5	596.2	529.9	511.5
8426.7	72.5°	8445.0	8457.3	5416.0	740.2	488.0	543.1	573.8	532.9	468.6	450.2
7372.1	75°	7304.7	6994.3	3976.5	488.0	408.4	466.6	495.1	466.6	404.3	408.4
5516.0	77.5°	5534.4	4953.5	2414.5	347.1	341.0	392.0	430.8	410.4	357.3	401.2
2773.8	80°	2851.4	2679.9	1077.1	259.3	269.5	313.4	354.3	327.7	282.8	269.5
619.7	82.5°	653.4	759.6	424.7	185.8	195.0	225.6	270.5	246.0	203.2	171.5
258.3	85°	228.7	250.1	187.8	116.4	114.3	140.9	183.8	164.4	137.8	110.3
109.2	87.5°	72.5	94.9	70.4	47.0	49.0	63.3	84.7	77.6	64.3	41.9
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>
2168.4
2227.6
2321.6
2428.8
2526.8
2580.9
2637.0
2678.9
2686.0
2654.4
2536.0
2345.0
2098.0
1840.7
1590.6
1374.2
1211.8
1133.2
1084.2
1002.5
882.1
848.4
808.6
772.8
724.9
675.8
619.7
569.7
512.5
449.2
394.1
353.2
246.0
169.5
116.4
43.9
0.0

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