

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: P952303

Luminaire Tested: **GALN-SB6A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20236 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

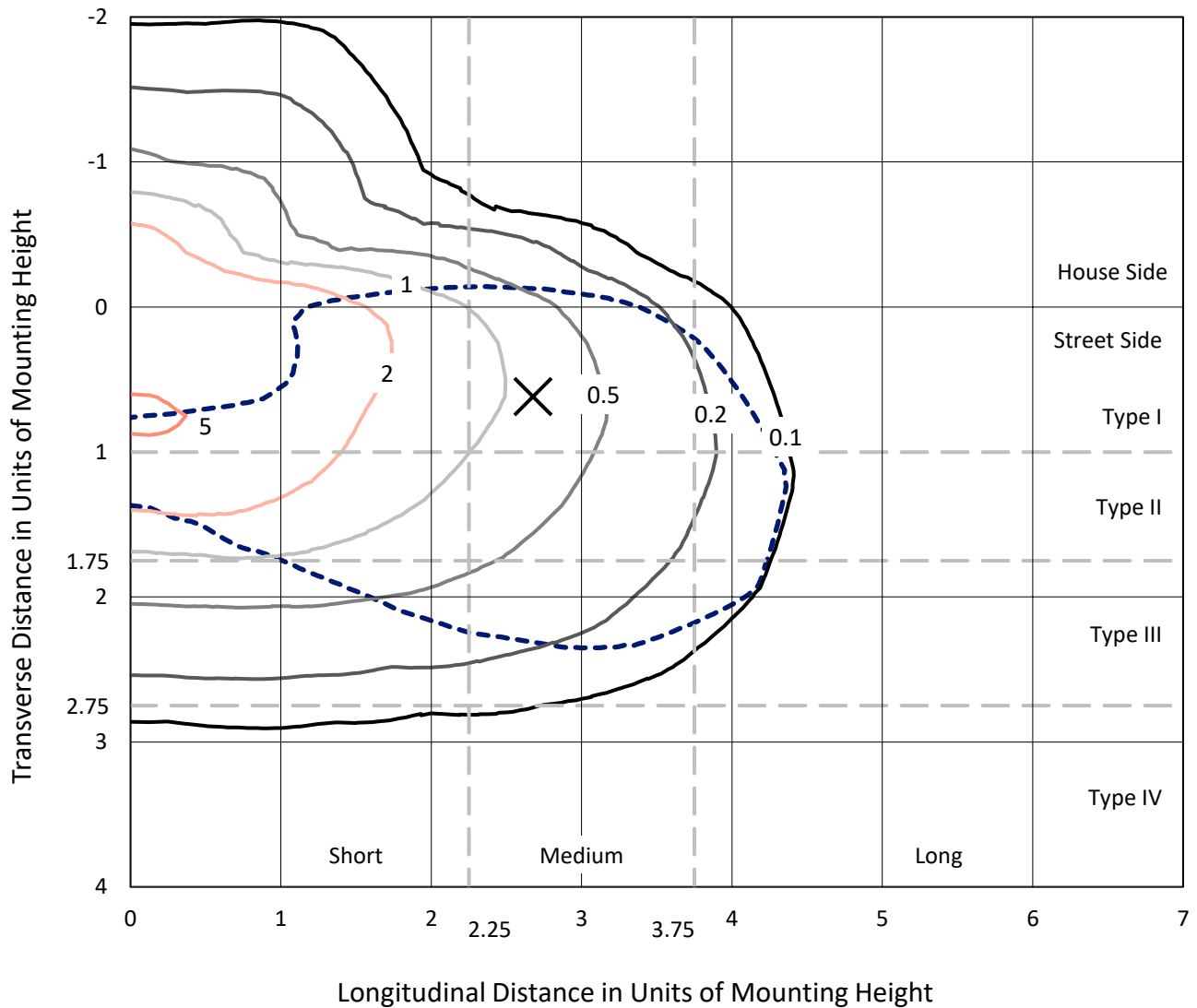
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

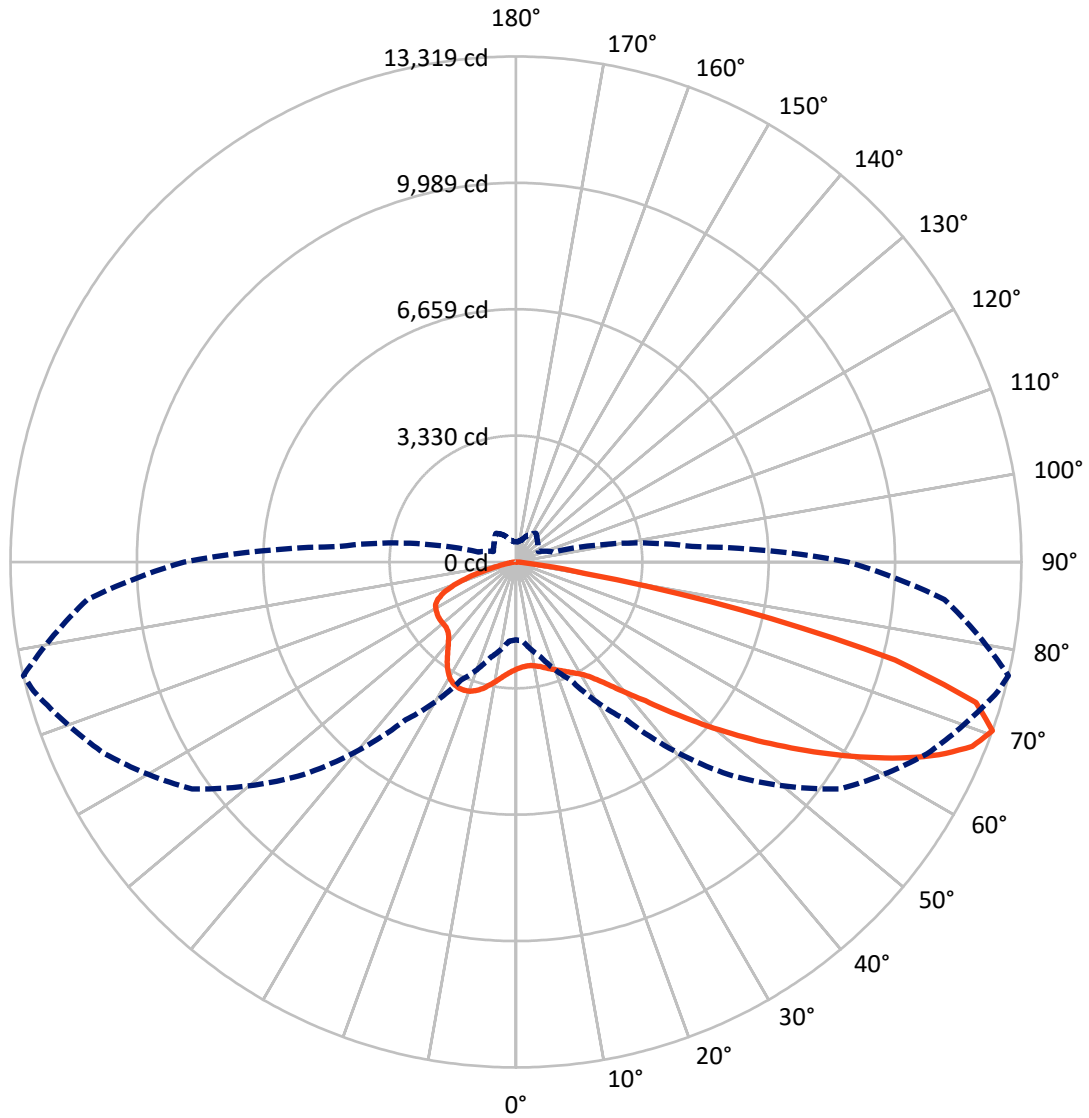
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4431.4	0.0	4431.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15804.6	0.0	15804.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	20236.0	0.0	20236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.3
10°-20°	777.1	3.8
20°-30°	1328.9	6.6
30°-40°	2137.0	10.6
40°-50°	3336.5	16.5
50°-60°	4456.7	22.0
60°-70°	4750.2	23.5
70°-80°	2924.2	14.5
80°-90°	256.2	1.3
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°	20236.0	100.0
0°-180°	20236.0	100.0

Coefficient of Utilization



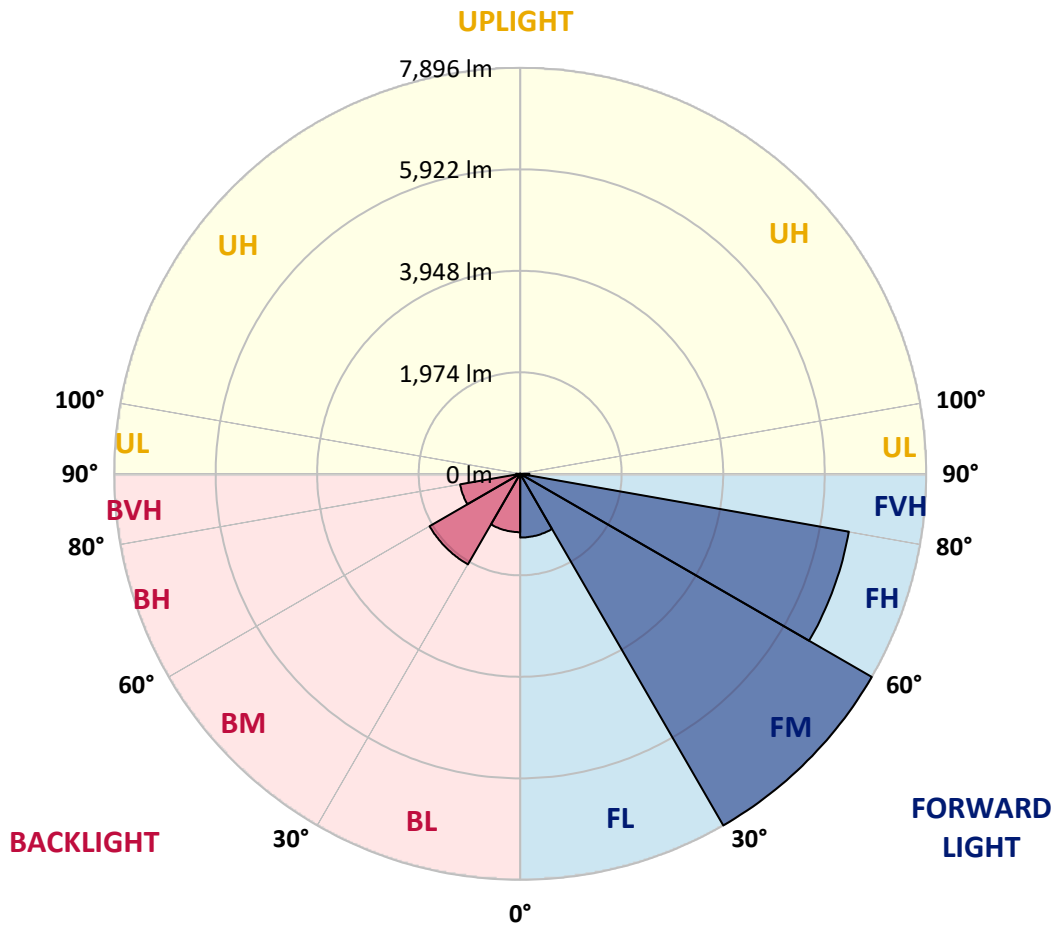
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.8	6.1			
FM (30°-60°)	7895.6	39.0			
FH (60°-80°)	6490.0	32.1			G3/7500
FVH (80°-90°)	179.2	0.9			G2/225
BL (0°-30°)	1135.5	5.6	B3/2500		
BM (30°-60°)	2034.5	10.1	B2/2500		
BH (60°-80°)	1184.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	77.1	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1
2.5°	2602.4	2601.3	2614.8	2618.9	2643.8	2661.4	2694.6	2729.8	2775.4	2780.6
5°	2452.1	2452.1	2467.6	2484.2	2516.3	2551.6	2602.4	2663.5	2742.3	2754.7
7.5°	2324.6	2332.9	2346.4	2378.5	2415.8	2466.6	2544.3	2631.4	2735.0	2754.7
10°	2222.0	2231.3	2247.9	2273.8	2329.8	2400.3	2501.8	2613.8	2752.6	2783.7
12.5°	2189.9	2199.2	2208.5	2228.2	2280.0	2363.0	2484.2	2622.0	2795.1	2826.2
15°	2264.5	2275.9	2268.6	2263.5	2290.4	2366.1	2492.5	2652.1	2848.0	2892.5
17.5°	2436.5	2440.7	2424.1	2375.4	2371.2	2411.7	2531.9	2693.6	2914.3	2963.0
20°	2714.3	2707.0	2672.8	2576.4	2521.5	2513.2	2599.2	2755.7	2982.7	3034.5
22.5°	3091.5	3083.2	3014.8	2862.5	2740.2	2659.4	2696.7	2836.6	3059.4	3117.4
25°	3562.0	3550.6	3450.1	3242.8	3053.2	2853.2	2829.3	2943.3	3153.7	3207.6
27.5°	4111.3	4102.0	3993.2	3719.6	3446.0	3118.5	2994.1	3068.7	3252.2	3313.3
30°	4702.1	4729.0	4536.2	4241.9	3895.8	3464.6	3215.9	3223.2	3379.6	3434.6
32.5°	5396.4	5443.1	5210.9	4837.8	4365.2	3840.8	3495.7	3438.7	3565.2	3610.8
35°	6084.6	6137.5	5944.7	5532.2	4988.1	4284.4	3788.0	3686.4	3811.8	3861.6
37.5°	6679.5	6750.0	6650.5	6291.9	5654.5	4819.2	4169.4	3977.6	4115.5	4177.7
40°	7149.0	7256.8	7249.5	7025.6	6440.1	5468.0	4653.4	4337.3	4492.7	4560.1
42.5°	7530.4	7623.6	7704.5	7693.1	7259.9	6204.8	5222.3	4804.7	4922.8	5000.5
45°	7793.6	7893.1	8067.2	8254.8	8048.5	6993.5	5874.2	5359.1	5466.9	5584.0
47.5°	8028.9	8141.8	8367.8	8665.2	8718.1	7785.3	6588.3	6004.8	6103.3	6224.5
50°	8049.6	8147.0	8497.3	8919.1	9193.8	8546.0	7355.2	6729.2	6821.5	6951.0
52.5°	7549.0	7702.4	8313.9	8911.9	9412.4	9182.4	8116.9	7482.7	7586.3	7741.8
55°	5859.7	6084.6	7776.0	8634.1	9334.7	9593.8	8841.4	8283.8	8416.5	8579.2
57.5°	5047.2	5145.6	6172.7	8128.3	8980.3	9700.5	9452.8	9093.2	9306.7	9485.0
60°	4536.2	4618.1	5225.4	7341.7	8513.9	9531.6	9925.4	9847.7	10216.7	10429.1
62.5°	3989.0	4066.8	4619.2	6130.2	7916.9	9250.8	10223.9	10544.2	11149.4	11381.6
65°	3446.0	3512.3	4041.9	5150.8	7158.3	8969.9	10378.3	11146.3	12012.7	12253.2
67.5°	2840.7	2895.7	3396.2	4345.6	6235.9	8585.4	10455.0	11619.9	12764.1	12970.3
70°	2050.0	2092.5	2609.6	3436.6	5078.3	7924.2	10423.9	11955.7	13153.8	13318.6
72.5°	969.0	1007.4	1614.7	2231.3	3586.9	6637.0	9794.9	11689.4	12757.9	12676.0
75°	517.2	550.3	927.6	1224.0	1894.5	4549.7	8015.4	10069.5	10713.1	10315.1
77.5°	350.3	376.2	574.2	734.8	865.4	2159.8	5151.9	6971.7	6707.5	6050.4
80°	277.8	304.7	470.5	497.5	418.7	780.4	2128.7	3227.3	2318.4	1854.1
82.5°	213.5	243.5	395.9	360.7	228.0	320.2	619.8	1020.8	593.8	451.9
85°	130.6	162.7	310.9	230.1	128.5	146.1	210.4	284.0	181.4	151.3
87.5°	66.3	93.3	157.5	83.9	58.0	34.2	56.0	56.0	47.7	41.5
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°
2823.1	0°	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1	2823.1
2808.6	2.5°	2833.5	2854.2	2889.4	2922.6	2948.5	2973.4	2998.3	3011.7	3015.9	3032.5
2824.1	5°	2866.6	2905.0	2973.4	3037.6	3078.1	3102.9	3120.5	3130.9	3133.0	3138.2
2866.6	7.5°	2927.8	2988.9	3084.3	3148.5	3178.6	3176.5	3169.3	3143.3	3133.0	3123.7
2928.8	10°	3013.8	3094.6	3211.8	3256.3	3237.7	3187.9	3123.7	3048.0	3012.8	2978.6
3013.8	12.5°	3120.5	3223.2	3338.2	3336.1	3243.9	3116.4	2967.2	2851.1	2777.5	2724.7
3118.5	15°	3250.1	3368.2	3456.3	3385.9	3183.8	2954.7	2736.1	2584.7	2518.4	2460.4
3224.2	17.5°	3383.8	3510.2	3550.6	3370.3	3032.5	2715.3	2467.6	2348.4	2283.2	2252.1
3338.2	20°	3514.4	3639.8	3606.6	3281.2	2802.4	2443.8	2223.0	2157.7	2144.3	2151.5
3449.1	22.5°	3652.2	3764.1	3618.0	3109.1	2509.1	2166.0	2044.8	2046.9	2076.9	2098.7
3565.2	25°	3793.2	3868.8	3588.0	2860.4	2194.0	1961.9	1931.8	1965.0	2024.1	2066.5
3695.7	27.5°	3928.9	3962.1	3522.7	2552.6	1923.5	1815.7	1820.9	1889.3	1978.5	2037.5
3854.3	30°	4082.3	4045.0	3397.3	2206.5	1735.9	1690.3	1733.9	1813.7	1902.8	1955.7
4054.3	32.5°	4255.4	4116.5	3198.3	1886.2	1603.3	1589.8	1661.3	1713.1	1752.5	1768.1
4319.6	35°	4471.0	4217.0	2943.3	1661.3	1484.1	1516.2	1584.6	1558.7	1543.2	1534.9
4676.2	37.5°	4750.8	4352.8	2644.8	1515.2	1387.7	1463.4	1491.4	1410.5	1349.4	1319.3
5108.3	40°	5087.6	4551.8	2357.8	1402.2	1326.6	1417.8	1369.1	1271.6	1193.9	1151.4
5594.4	42.5°	5461.7	4760.1	2116.3	1317.2	1292.4	1380.5	1278.9	1162.8	1037.4	1023.9
6173.7	45°	5854.5	4974.6	1951.5	1252.0	1275.8	1348.3	1227.1	1039.5	950.4	1005.3
6755.1	47.5°	6247.3	5171.5	1852.0	1203.2	1267.5	1312.1	1181.5	971.1	907.9	987.7
7378.0	50°	6684.7	5347.7	1807.5	1168.0	1258.2	1297.6	1113.1	953.5	863.3	916.2
8022.6	52.5°	7118.9	5484.5	1774.3	1132.8	1244.7	1286.2	1079.9	932.7	809.4	812.5
8671.4	55°	7552.1	5573.7	1738.0	1086.1	1214.6	1261.3	1076.8	909.9	769.0	754.5
9357.5	57.5°	8014.3	5624.4	1693.4	1034.3	1162.8	1198.1	1073.7	892.3	756.6	732.7
10059.1	60°	8484.9	5699.1	1635.4	971.1	1093.4	1122.4	1066.4	886.1	749.3	708.9
10720.3	62.5°	8906.7	5725.0	1566.0	911.0	1004.3	1047.8	1050.9	880.9	729.6	660.2
11269.6	65°	9183.4	5613.0	1444.7	842.6	907.9	971.1	1020.8	863.3	694.4	624.9
11541.2	67.5°	9172.0	5293.8	1255.1	754.5	814.6	886.1	977.3	833.3	651.9	581.4
11336.0	70°	8745.0	4663.7	1014.6	651.9	712.0	794.9	921.3	788.7	601.1	533.7
10079.9	72.5°	7500.3	3650.1	736.9	531.7	592.8	700.6	848.8	734.8	549.3	491.2
7449.5	75°	5358.1	2310.1	499.5	408.3	461.2	593.8	758.6	671.6	501.6	493.3
3731.0	77.5°	2737.1	1103.7	330.6	298.5	321.3	468.4	637.4	600.1	508.9	407.3
1061.3	80°	890.3	407.3	208.3	203.1	213.5	312.0	493.3	492.3	385.5	276.7
257.0	82.5°	284.0	175.1	135.8	130.6	125.4	195.9	344.1	389.7	260.1	175.1
92.2	85°	113.0	104.7	79.8	73.6	52.9	92.2	180.3	259.1	193.8	126.4
23.8	87.5°	41.5	41.5	21.8	15.5	11.4	31.1	48.7	77.7	110.9	65.3
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>
2823.1
3041.8
3146.5
3125.7
2968.2
2712.2
2454.2
2261.4
2148.4
2103.9
2077.9
2052.0
1968.1
1776.4
1543.2
1326.6
1154.5
1037.4
1034.3
1025.0
955.5
834.3
764.9
735.8
712.0
660.2
624.9
584.5
540.0
488.1
465.3
362.7
244.6
174.1
129.5
64.3
0.0

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