

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: P950707

Luminaire Tested: **GALN-SB5A-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950707  
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-SB5A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

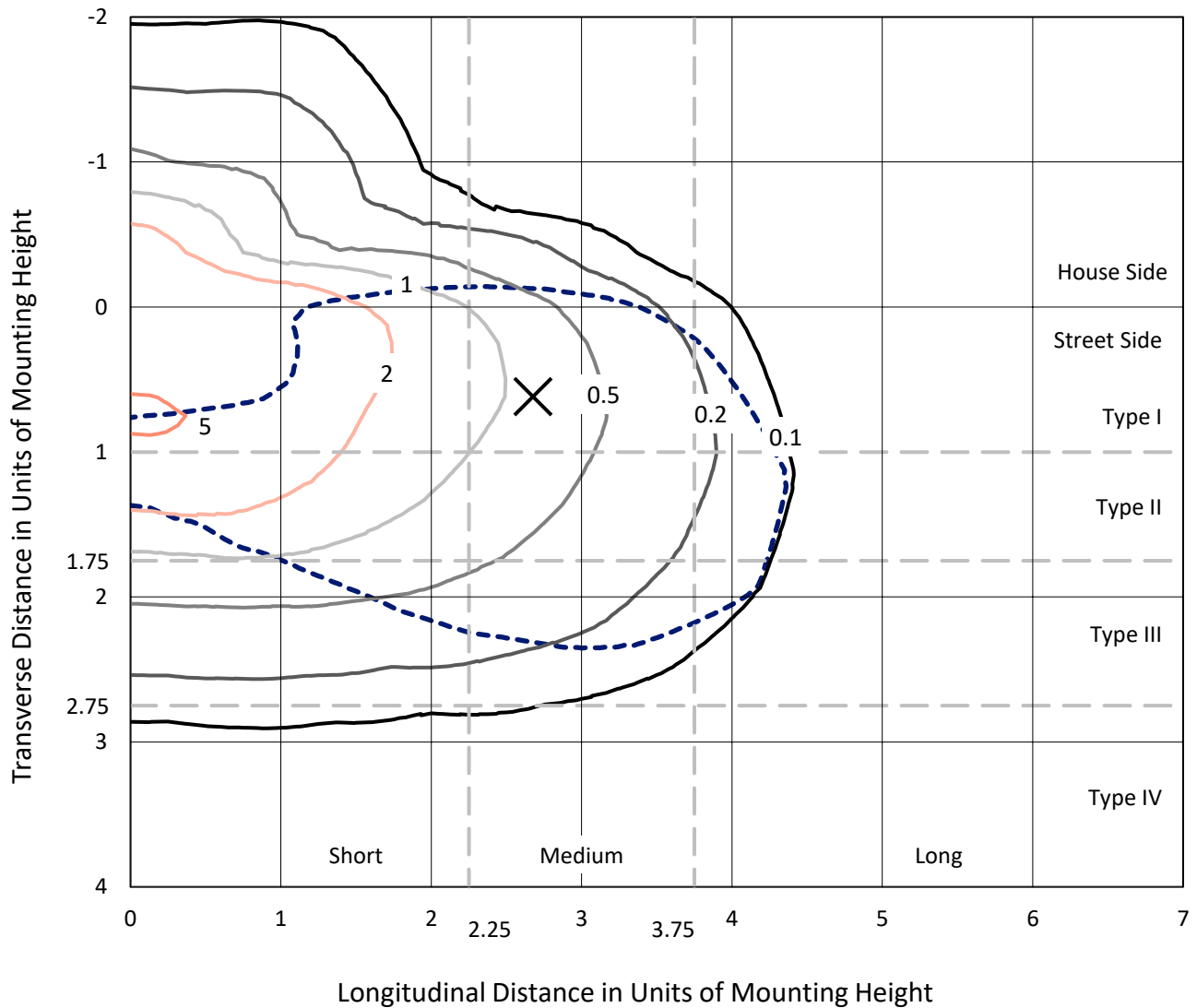
Lumens per Lamp: N/A  
Luminaire Lumens: 20228 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

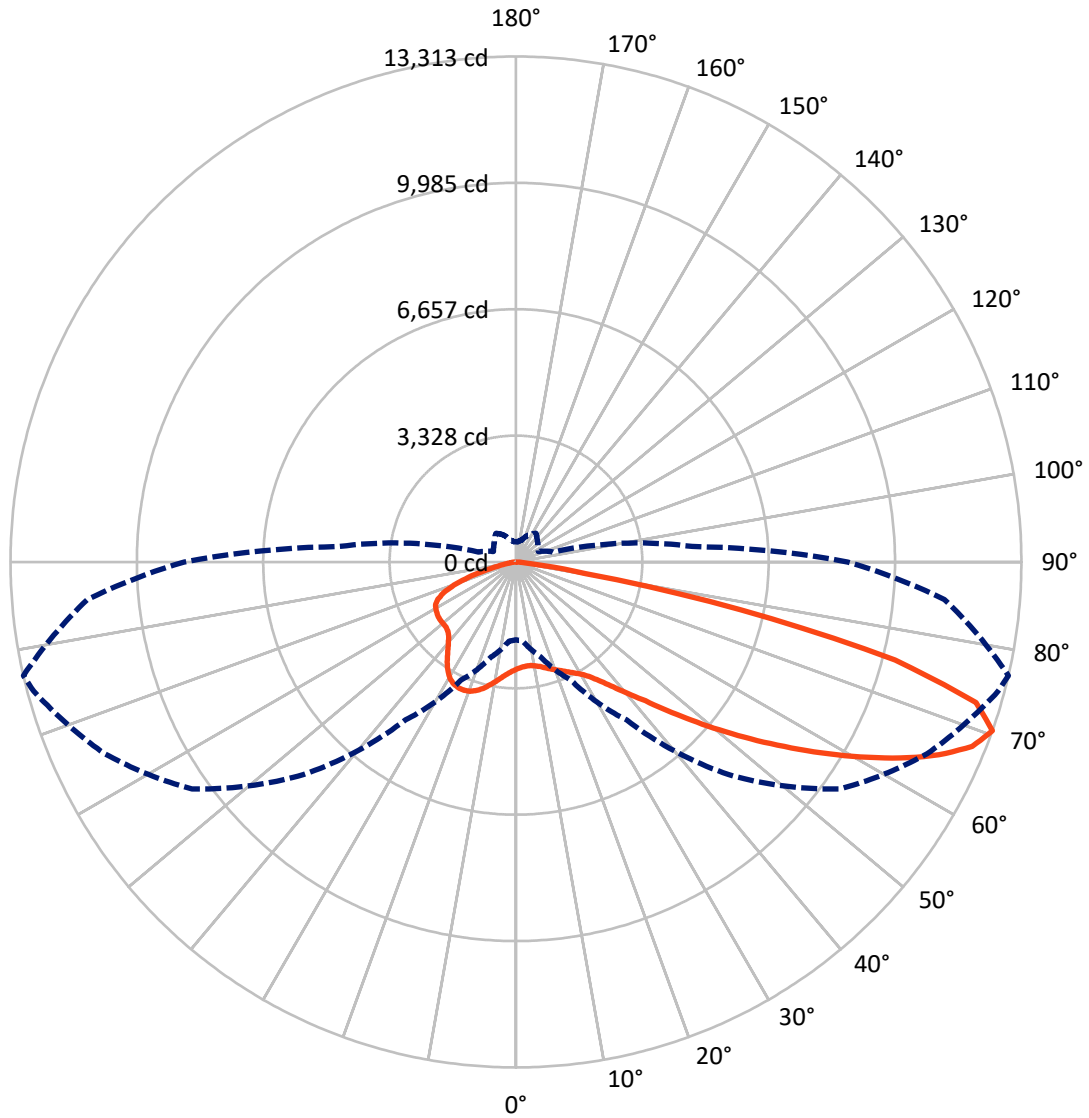
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	4429.6	0.0	4429.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	15798.4	0.0	15798.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	20228.0	0.0	20228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.1	1.3
10°-20°	776.8	3.8
20°-30°	1328.4	6.6
30°-40°	2136.2	10.6
40°-50°	3335.1	16.5
50°-60°	4454.9	22.0
60°-70°	4748.3	23.5
70°-80°	2923.0	14.5
80°-90°	256.1	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°	20228.0	100.0
0°-180°	20228.0	100.0

**Coefficient of Utilization**



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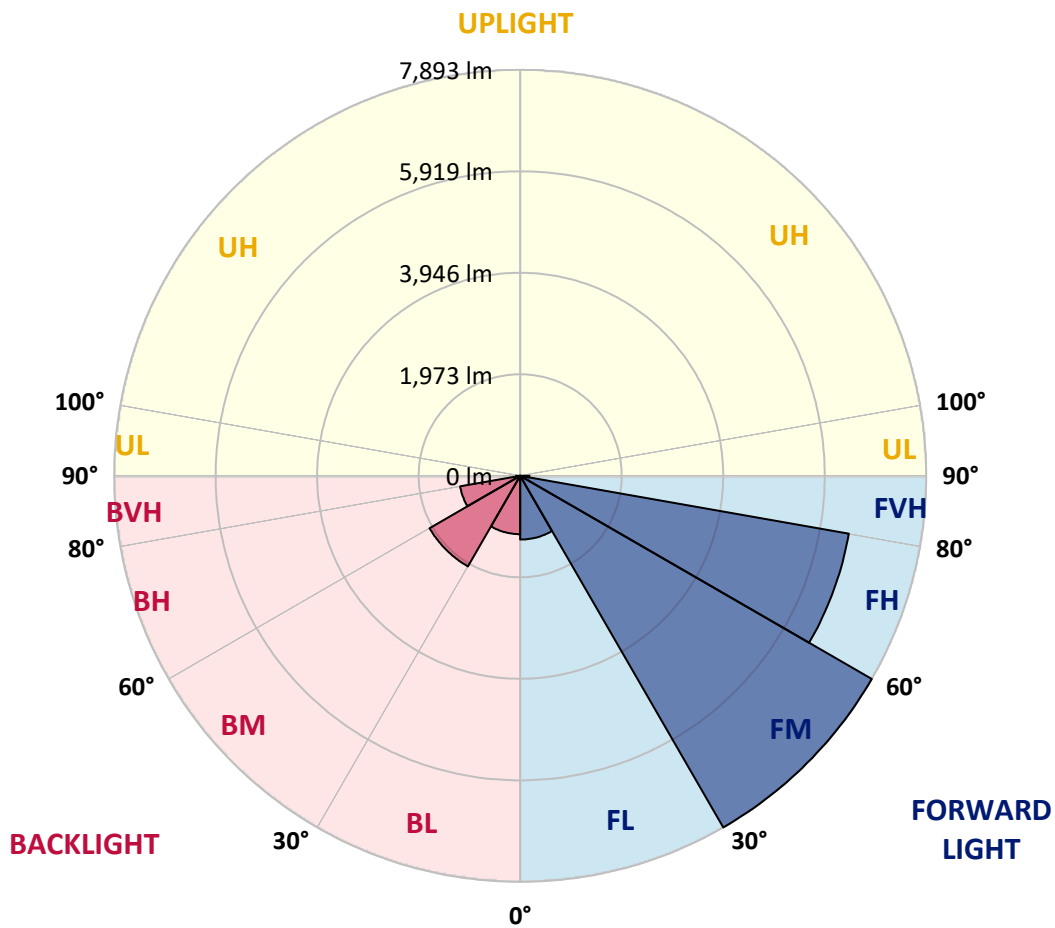
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.3	6.1			
FM (30°-60°)	7892.5	39.0			
FH (60°-80°)	6487.5	32.1			G3/7500
FVH (80°-90°)	179.1	0.9			G2/225
BL (0°-30°)	1135.0	5.6	B3/2500		
BM (30°-60°)	2033.7	10.1	B2/2500		
BH (60°-80°)	1183.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	77.0	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°	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0
2.5°	2601.3	2600.3	2613.8	2617.9	2642.8	2660.4	2693.5	2728.8	2774.3	2779.5
5°	2451.1	2451.1	2466.7	2483.2	2515.3	2550.6	2601.3	2662.5	2741.2	2753.6
7.5°	2323.7	2332.0	2345.4	2377.6	2414.9	2465.6	2543.3	2630.3	2733.9	2753.6
10°	2221.1	2230.4	2247.0	2272.9	2328.9	2399.3	2500.8	2612.7	2751.5	2782.6
12.5°	2189.0	2198.3	2207.7	2227.3	2279.1	2362.0	2483.2	2621.0	2794.0	2825.1
15°	2263.6	2275.0	2267.7	2262.6	2289.5	2365.1	2491.5	2651.1	2846.9	2891.4
17.5°	2435.6	2439.7	2423.1	2374.5	2370.3	2410.7	2530.9	2692.5	2913.2	2961.8
20°	2713.2	2706.0	2671.8	2575.4	2520.5	2512.2	2598.2	2754.7	2981.5	3033.3
22.5°	3090.3	3082.0	3013.6	2861.4	2739.1	2658.3	2695.6	2835.5	3058.2	3116.2
25°	3560.6	3549.2	3448.8	3241.6	3052.0	2852.0	2828.2	2942.2	3152.5	3206.3
27.5°	4109.7	4100.4	3991.6	3718.1	3444.6	3117.2	2992.9	3067.5	3250.9	3312.0
30°	4700.2	4727.1	4534.5	4240.2	3894.2	3463.3	3214.6	3221.9	3378.3	3433.2
32.5°	5394.3	5440.9	5208.9	4835.9	4363.5	3839.3	3494.3	3437.4	3563.7	3609.3
35°	6082.2	6135.0	5942.3	5530.0	4986.1	4282.7	3786.5	3685.0	3810.3	3860.0
37.5°	6676.8	6747.3	6647.8	6289.4	5652.3	4817.3	4167.7	3976.1	4113.8	4176.0
40°	7146.1	7253.9	7246.6	7022.9	6437.5	5465.8	4651.5	4335.5	4490.9	4558.3
42.5°	7527.4	7620.6	7701.4	7690.0	7257.0	6202.4	5220.3	4802.8	4920.9	4998.6
45°	7790.5	7890.0	8064.0	8251.5	8045.4	6990.7	5871.9	5357.0	5464.8	5581.8
47.5°	8025.7	8138.6	8364.4	8661.8	8714.6	7782.2	6585.7	6002.4	6100.8	6222.1
50°	8046.4	8143.8	8493.9	8915.6	9190.1	8542.6	7352.3	6726.6	6818.8	6948.3
52.5°	7546.0	7699.4	8310.6	8908.3	9408.7	9178.7	8113.7	7479.7	7583.3	7738.7
55°	5857.4	6082.2	7772.9	8630.7	9331.0	9590.0	8837.9	8280.5	8413.1	8575.8
57.5°	5045.2	5143.6	6170.3	8125.1	8976.7	9696.7	9449.1	9089.6	9303.0	9481.2
60°	4534.5	4616.3	5223.4	7338.8	8510.5	9527.8	9921.5	9843.8	10212.6	10425.0
62.5°	3987.5	4065.2	4617.3	6127.8	7913.8	9247.1	10219.9	10540.0	11145.0	11377.1
65°	3444.6	3510.9	4040.3	5148.8	7155.5	8966.3	10374.2	11141.9	12008.0	12248.3
67.5°	2839.6	2894.5	3394.9	4343.8	6233.4	8582.0	10450.9	11615.3	12759.0	12965.2
70°	2049.2	2091.6	2608.6	3435.3	5076.3	7921.0	10419.8	11951.0	13148.6	13313.3
72.5°	968.6	1007.0	1614.0	2230.4	3585.5	6634.4	9791.0	11684.7	12752.8	12671.0
75°	517.0	550.1	927.2	1223.5	1893.8	4547.9	8012.2	10065.5	10708.9	10311.0
77.5°	350.2	376.1	573.9	734.5	865.0	2159.0	5149.8	6969.0	6704.8	6048.0
80°	277.6	304.6	470.3	497.3	418.5	780.1	2127.9	3226.0	2317.5	1853.4
82.5°	213.4	243.5	395.7	360.5	227.9	320.1	619.5	1020.4	593.6	451.7
85°	130.5	162.6	310.8	230.0	128.5	146.1	210.3	283.9	181.3	151.3
87.5°	66.3	93.2	157.5	83.9	58.0	34.2	55.9	55.9	47.7	41.4
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°
2822.0	0°	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0	2822.0
2807.5	2.5°	2832.4	2853.1	2888.3	2921.4	2947.3	2972.2	2997.1	3010.5	3014.7	3031.3
2823.0	5°	2865.5	2903.8	2972.2	3036.4	3076.8	3101.7	3119.3	3129.7	3131.7	3136.9
2865.5	7.5°	2926.6	2987.7	3083.1	3147.3	3177.3	3175.3	3168.0	3142.1	3131.7	3122.4
2927.7	10°	3012.6	3093.4	3210.5	3255.0	3236.4	3186.7	3122.4	3046.8	3011.6	2977.4
3012.6	12.5°	3119.3	3221.9	3336.9	3334.8	3242.6	3115.2	2966.0	2850.0	2776.4	2723.6
3117.2	15°	3248.8	3366.9	3455.0	3384.5	3182.5	2953.6	2735.0	2583.7	2517.4	2459.4
3222.9	17.5°	3382.5	3508.8	3549.2	3369.0	3031.3	2714.2	2466.7	2347.5	2282.2	2251.2
3336.9	20°	3513.0	3638.3	3605.2	3279.9	2801.3	2442.8	2222.2	2156.9	2143.4	2150.7
3447.7	22.5°	3650.8	3762.7	3616.6	3107.9	2508.1	2165.2	2044.0	2046.0	2076.1	2097.8
3563.7	25°	3791.7	3867.3	3586.5	2859.3	2193.2	1961.1	1931.1	1964.2	2023.3	2065.7
3694.3	27.5°	3927.4	3960.5	3521.3	2551.6	1922.8	1815.0	1820.2	1888.6	1977.7	2036.7
3852.8	30°	4080.7	4043.4	3395.9	2205.6	1735.3	1689.7	1733.2	1813.0	1902.0	1954.9
4052.7	32.5°	4253.7	4114.9	3197.0	1885.5	1602.7	1589.2	1660.7	1712.5	1751.8	1767.4
4317.9	35°	4469.2	4215.4	2942.2	1660.7	1483.5	1515.6	1584.0	1558.1	1542.6	1534.3
4674.3	37.5°	4748.9	4351.1	2643.8	1514.6	1387.2	1462.8	1490.8	1410.0	1348.8	1318.8
5106.3	40°	5085.6	4550.0	2356.8	1401.7	1326.0	1417.2	1368.5	1271.1	1193.4	1151.0
5592.2	42.5°	5459.6	4758.2	2115.5	1316.7	1291.9	1379.9	1278.4	1162.4	1037.0	1023.5
6171.3	45°	5852.2	4972.7	1950.7	1251.5	1275.3	1347.8	1226.6	1039.1	950.0	1004.9
6752.5	47.5°	6244.8	5169.5	1851.3	1202.8	1267.0	1311.5	1181.0	970.7	907.5	987.3
7375.1	50°	6682.0	5345.6	1806.7	1167.5	1257.7	1297.0	1112.6	953.1	863.0	915.8
8019.5	52.5°	7116.1	5482.4	1773.6	1132.3	1244.2	1285.6	1079.5	932.4	809.1	812.2
8668.0	55°	7549.1	5571.5	1737.3	1085.7	1214.2	1260.8	1076.4	909.6	768.7	754.2
9353.8	57.5°	8011.2	5622.2	1692.8	1033.9	1162.4	1197.6	1073.3	892.0	756.3	732.4
10055.2	60°	8481.5	5696.8	1634.8	970.7	1093.0	1122.0	1066.0	885.8	749.0	708.6
10716.1	62.5°	8903.2	5722.7	1565.4	910.6	1003.9	1047.4	1050.5	880.6	729.3	659.9
11265.2	65°	9179.8	5610.8	1444.1	842.2	907.5	970.7	1020.4	863.0	694.1	624.7
11536.6	67.5°	9168.4	5291.8	1254.6	754.2	814.3	885.8	976.9	832.9	651.6	581.2
11331.5	70°	8741.5	4661.9	1014.2	651.6	711.7	794.6	921.0	788.4	600.9	533.5
10075.9	72.5°	7497.3	3648.7	736.6	531.5	592.6	700.3	848.5	734.5	549.1	491.1
7446.6	75°	5356.0	2309.2	499.3	408.2	461.0	593.6	758.3	671.3	501.4	493.1
3729.5	77.5°	2736.0	1103.3	330.5	298.4	321.2	468.3	637.1	599.8	508.7	407.1
1060.8	80°	889.9	407.1	208.2	203.1	213.4	311.8	493.1	492.1	385.4	276.6
256.9	82.5°	283.9	175.1	135.7	130.5	125.4	195.8	343.9	389.5	260.0	175.1
92.2	85°	112.9	104.6	79.8	73.6	52.8	92.2	180.3	259.0	193.7	126.4
23.8	87.5°	41.4	41.4	21.8	15.5	11.4	31.1	48.7	77.7	110.8	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>
2822.0
3040.6
3145.2
3124.5
2967.0
2711.1
2453.2
2260.5
2147.6
2103.0
2077.1
2051.2
1967.3
1775.7
1542.6
1326.0
1154.1
1037.0
1033.9
1024.6
955.2
834.0
764.5
735.5
711.7
659.9
624.7
584.3
539.7
487.9
465.2
362.6
244.5
174.0
129.5
64.2
0.0

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