

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: P941475

Luminaire Tested: **GALN-SB5A-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23754 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

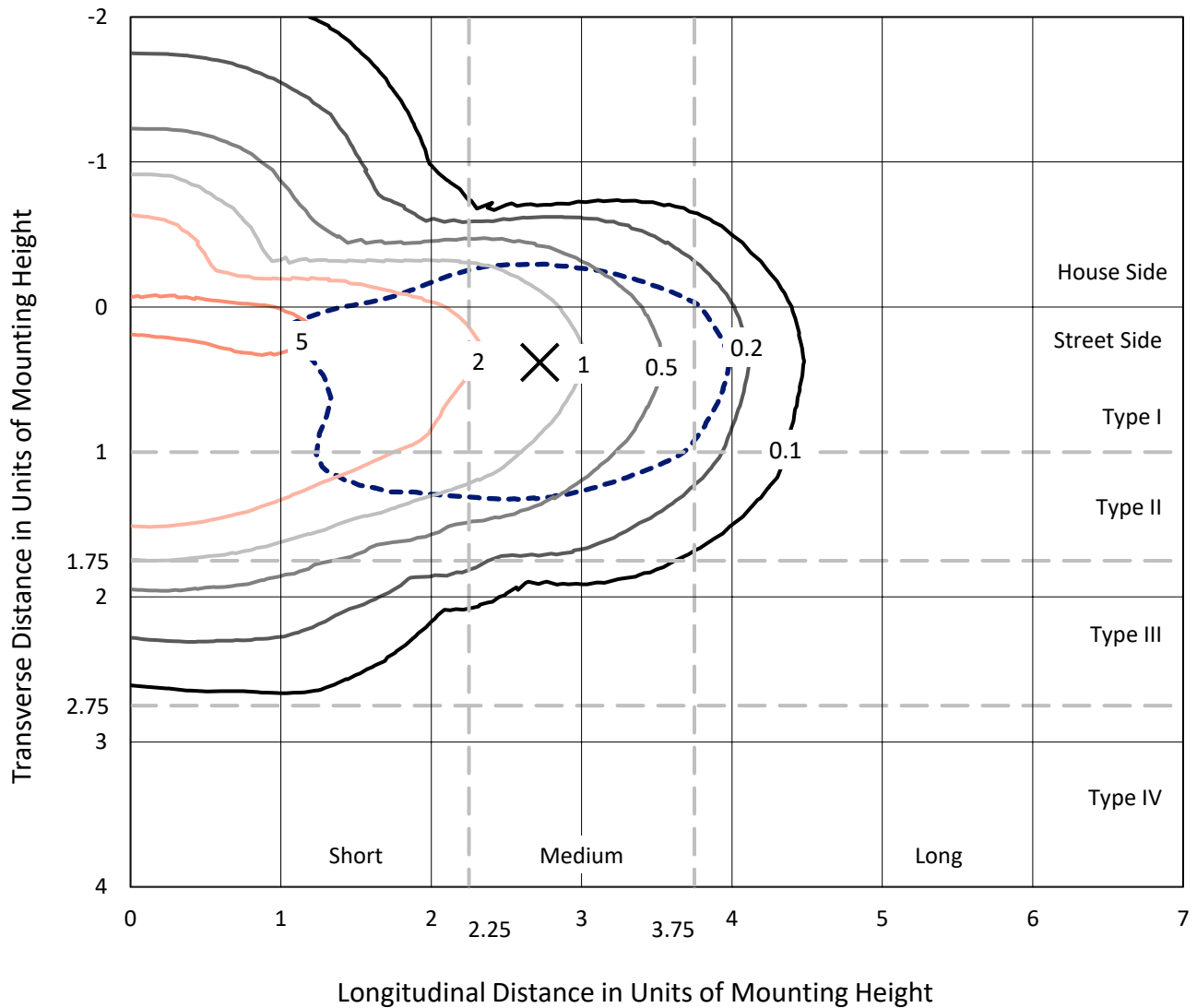
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941475
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Iso-Footcandle Lines of Horizontal Illumination

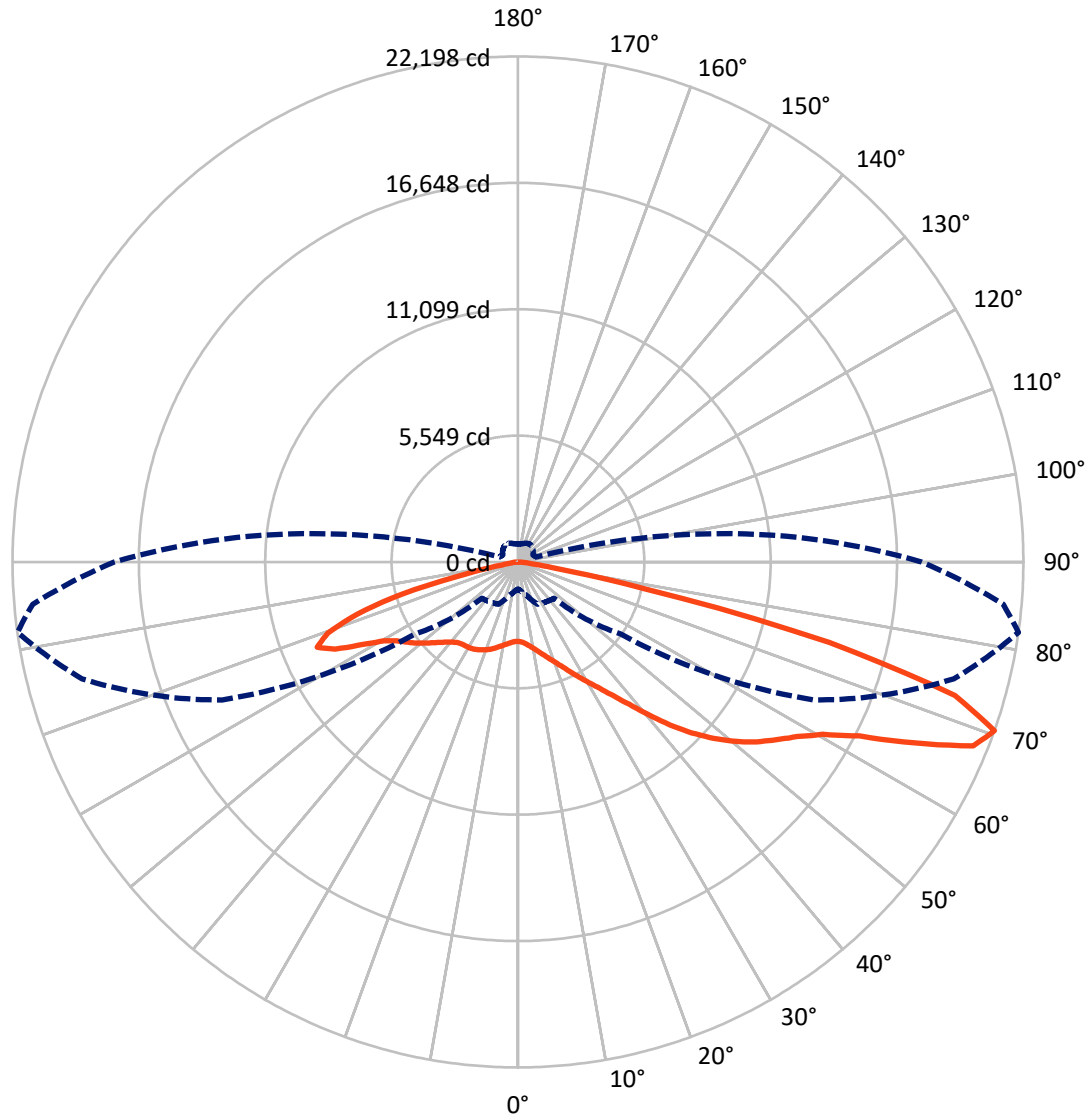
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5855.9	0.0	5855.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17898.1	0.0	17898.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	23754.0	0.0	23754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	1.4
10°-20°	944.7	4.0
20°-30°	1580.4	6.7
30°-40°	2469.0	10.4
40°-50°	3932.2	16.6
50°-60°	5472.2	23.0
60°-70°	5724.2	24.1
70°-80°	2991.7	12.6
80°-90°	310.7	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°	23754.0	100.0
0°-180°	23754.0	100.0

Coefficient of Utilization



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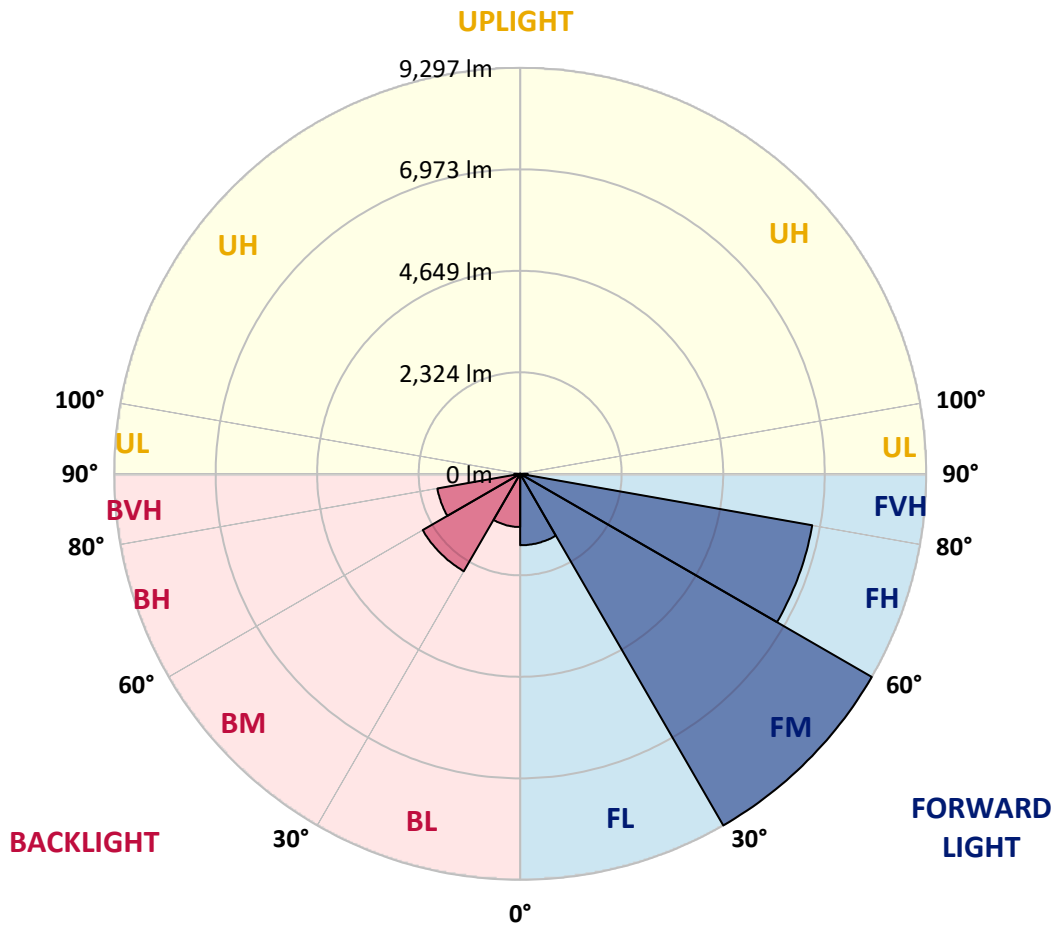
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.7	6.9			
FM (30°-60°)	9297.1	39.1			
FH (60°-80°)	6791.3	28.6			G3/7500
FVH (80°-90°)	173.9	0.7			G2/225
BL (0°-30°)	1218.3	5.1	B3/2500		
BM (30°-60°)	2576.4	10.8	B3/5000		
BH (60°-80°)	1924.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	136.7	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 Medium



REPORT NUMBER: P941475
 CATALOG NUMBER: GALN-SB5A-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
2.5°	3565.8	3586.0	3579.7	3573.4	3573.4	3564.6	3563.3	3550.7	3540.6	3524.2
5°	3611.2	3632.6	3630.1	3635.1	3651.5	3655.3	3659.1	3651.5	3631.4	3611.2
7.5°	3570.9	3594.8	3602.4	3632.6	3683.0	3728.4	3762.5	3776.3	3757.4	3728.4
10°	3434.7	3461.2	3487.7	3559.5	3649.0	3756.2	3846.9	3901.1	3897.3	3869.6
12.5°	3158.7	3186.4	3243.1	3383.1	3546.9	3736.0	3904.9	4018.3	4057.4	4037.2
15°	2938.1	2962.1	3004.9	3148.6	3361.6	3649.0	3926.3	4146.9	4246.5	4235.1
17.5°	2931.8	2941.9	2968.4	3036.4	3200.3	3512.9	3903.6	4272.9	4463.3	4462.0
20°	3042.7	3046.5	3061.6	3075.5	3168.8	3409.5	3845.6	4377.6	4706.5	4706.5
22.5°	3196.5	3194.0	3209.1	3196.5	3241.9	3400.7	3809.1	4469.6	4977.5	4997.7
25°	3427.2	3414.6	3410.8	3381.8	3390.6	3482.6	3849.4	4574.2	5298.9	5340.5
27.5°	3734.7	3714.6	3700.7	3633.9	3611.2	3651.5	3972.9	4700.2	5656.9	5728.8
30°	4135.5	4099.0	4078.8	3962.9	3880.9	3887.2	4159.5	4867.9	6031.3	6147.2
32.5°	4682.6	4625.9	4571.7	4381.3	4231.3	4182.2	4400.2	5099.8	6437.1	6622.4
35°	5295.2	5249.8	5191.8	4898.1	4667.5	4554.0	4725.4	5423.7	6912.3	7206.0
37.5°	5885.1	5846.0	5873.7	5477.9	5180.5	5015.3	5151.5	5858.6	7498.4	7932.0
40°	6495.1	6464.9	6468.6	6090.5	5743.9	5558.6	5668.3	6404.4	8170.3	8795.4
42.5°	7158.1	7135.4	7059.8	6724.5	6335.0	6162.4	6263.2	7034.6	8891.2	9778.6
45°	7900.5	7886.7	7816.1	7431.6	6985.4	6791.3	6927.5	7730.4	9616.0	10703.8
47.5°	8542.1	8553.4	8544.6	8220.7	7758.1	7473.2	7635.8	8456.4	10290.3	11573.5
50°	8850.9	8910.1	8997.1	8896.3	8608.9	8319.0	8350.5	9157.2	10933.2	12389.0
52.5°	8689.6	8801.7	9038.7	9200.1	9311.0	9250.5	9166.0	9853.0	11538.2	13125.1
55°	8088.3	8245.9	8639.1	9028.6	9594.6	10034.5	10145.4	10624.4	12128.1	13773.0
57.5°	6993.0	7248.9	7601.8	8389.6	9342.5	10413.9	11287.4	11694.5	12753.3	14465.0
60°	5114.9	5457.8	5896.4	7068.6	8460.2	10210.9	12259.2	13338.1	13641.9	15361.1
62.5°	3273.4	3485.2	3888.5	4992.7	6592.2	9171.1	12556.6	15392.7	15148.1	16830.8
65°	2241.1	2377.2	2746.5	3366.7	4261.6	6826.6	11760.0	16932.9	17540.5	19160.2
67.5°	1628.5	1731.9	2047.0	2590.2	2776.8	4039.8	9125.7	16862.3	19866.0	21560.1
70°	1187.3	1260.5	1525.1	2047.0	2136.5	2247.4	5528.3	14333.9	19815.6	22197.8
72.5°	879.8	930.2	1107.9	1588.2	1729.3	1517.6	2736.4	10417.6	17027.5	20077.8
75°	636.5	674.3	805.4	1215.1	1384.0	1155.8	1365.1	6088.0	11877.3	14123.4
77.5°	486.5	515.5	601.2	889.9	1107.9	867.2	847.0	2800.7	5631.7	5659.4
80°	390.7	409.6	456.3	626.4	849.5	649.1	552.1	1130.6	1779.8	1506.2
82.5°	287.4	318.9	385.7	439.9	607.5	447.5	336.5	571.0	676.9	582.3
85°	163.9	185.3	233.2	315.1	388.2	273.5	192.8	253.4	315.1	258.4
87.5°	58.0	75.6	81.9	123.5	168.9	113.4	74.4	73.1	103.4	76.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941475
 CATALOG NUMBER: GALN-SB5A-740-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3482.6	0°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
3520.4	2.5°	3507.8	3501.5	3476.3	3442.3	3407.0	3373.0	3361.6	3337.7	3321.3	3312.5
3602.4	5°	3578.4	3558.3	3499.0	3423.4	3344.0	3258.3	3197.8	3142.3	3102.0	3064.2
3714.6	7.5°	3679.3	3644.0	3541.9	3409.5	3268.4	3125.9	3020.0	2939.4	2885.2	2849.9
3845.6	10°	3796.5	3742.3	3586.0	3388.1	3170.0	2965.8	2841.1	2771.7	2737.7	2718.8
3995.6	12.5°	3931.4	3854.5	3631.4	3338.9	3020.0	2786.9	2701.2	2681.0	2682.2	2683.5
4184.7	15°	4097.7	3990.6	3667.9	3231.8	2824.7	2649.5	2634.3	2667.1	2701.2	2717.5
4399.0	17.5°	4285.5	4134.3	3674.2	3055.3	2633.1	2561.2	2609.1	2679.7	2731.4	2754.1
4638.5	20°	4487.2	4280.5	3628.8	2805.8	2475.5	2489.4	2575.1	2665.9	2722.6	2751.6
4912.0	22.5°	4717.9	4436.8	3520.4	2543.6	2347.0	2411.2	2512.1	2600.3	2659.6	2688.5
5233.4	25°	4981.3	4612.0	3350.3	2323.0	2236.0	2323.0	2423.9	2497.0	2544.9	2571.3
5592.6	27.5°	5273.7	4794.8	3123.4	2147.8	2139.0	2232.3	2315.5	2372.2	2397.4	2417.6
5974.6	30°	5567.4	4961.1	2848.6	2015.5	2054.5	2142.8	2202.0	2227.2	2234.8	2238.6
6400.6	32.5°	5885.1	5104.8	2560.0	1905.8	1973.9	2055.8	2091.1	2102.4	2067.1	2043.2
6917.4	35°	6269.5	5258.6	2277.6	1818.8	1894.5	1965.0	1976.4	1966.3	1924.7	1875.6
7565.2	37.5°	6744.7	5450.2	2052.0	1757.1	1820.1	1866.7	1852.9	1850.3	1854.1	1796.1
8344.2	40°	7327.0	5699.8	1886.9	1709.2	1759.6	1769.7	1730.6	1752.0	1770.9	1682.7
9198.8	42.5°	7973.6	6001.0	1782.3	1676.4	1709.2	1685.2	1624.7	1648.7	1646.2	1530.2
10057.2	45°	8632.8	6328.7	1745.7	1652.5	1662.5	1614.6	1547.8	1554.1	1501.2	1396.6
10880.2	47.5°	9288.3	6680.4	1768.4	1632.3	1604.6	1550.4	1498.7	1470.9	1392.8	1314.7
11669.3	50°	9931.1	7049.7	1851.6	1592.0	1525.1	1493.6	1455.8	1406.7	1323.5	1256.7
12415.5	52.5°	10527.3	7421.6	1944.9	1525.1	1425.6	1444.5	1420.5	1363.8	1281.9	1213.8
13121.3	55°	11092.0	7793.4	1981.4	1433.1	1332.3	1401.6	1387.8	1283.1	1184.8	1129.4
13859.9	57.5°	11707.1	8240.8	1941.1	1315.9	1256.7	1352.5	1299.5	1183.6	1126.8	1085.3
14821.7	60°	12559.2	8942.9	1854.1	1171.0	1184.8	1279.4	1188.6	1140.7	1078.9	1032.3
16263.6	62.5°	13974.6	10252.5	1714.2	1027.3	1100.4	1171.0	1135.7	1087.8	1024.7	979.4
18729.1	65°	16067.0	12072.6	1450.8	915.1	1005.8	1065.1	1078.9	1031.1	965.5	917.6
20889.5	67.5°	17831.6	13214.6	1097.9	821.8	908.8	979.4	1018.4	971.8	902.5	855.8
21394.9	70°	17734.6	12385.2	838.2	729.8	823.1	894.9	945.3	908.8	834.4	790.3
19433.7	72.5°	15751.9	10360.9	678.1	636.5	736.1	806.7	867.2	839.5	763.8	721.0
14236.8	75°	11572.2	7354.7	542.0	542.0	627.7	714.7	781.5	763.8	694.5	664.3
5977.1	77.5°	4878.0	3085.6	424.8	450.0	521.8	613.8	697.0	703.3	642.8	680.6
1580.6	80°	1297.0	850.8	323.9	354.2	409.6	506.7	606.3	603.8	538.2	502.9
587.4	82.5°	494.1	335.3	230.7	249.6	296.2	388.2	480.2	495.4	429.8	371.8
230.7	85°	190.3	143.7	142.4	150.0	172.7	257.1	363.0	375.6	323.9	274.8
64.3	87.5°	49.2	42.9	52.9	50.4	79.4	137.4	208.0	215.5	197.9	114.7
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>
3482.6
3322.6
3079.3
2857.4
2723.8
2686.0
2716.3
2759.1
2759.1
2696.1
2578.9
2425.1
2247.4
2050.8
1878.1
1799.9
1685.2
1528.9
1400.4
1314.7
1251.6
1215.1
1124.3
1081.5
1029.8
979.4
920.1
857.1
794.1
721.0
655.4
617.6
467.6
371.8
283.6
163.9
0.0

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