

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: P942145

Luminaire Tested: **GALN-SB6A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942145
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-SB6A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26953 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

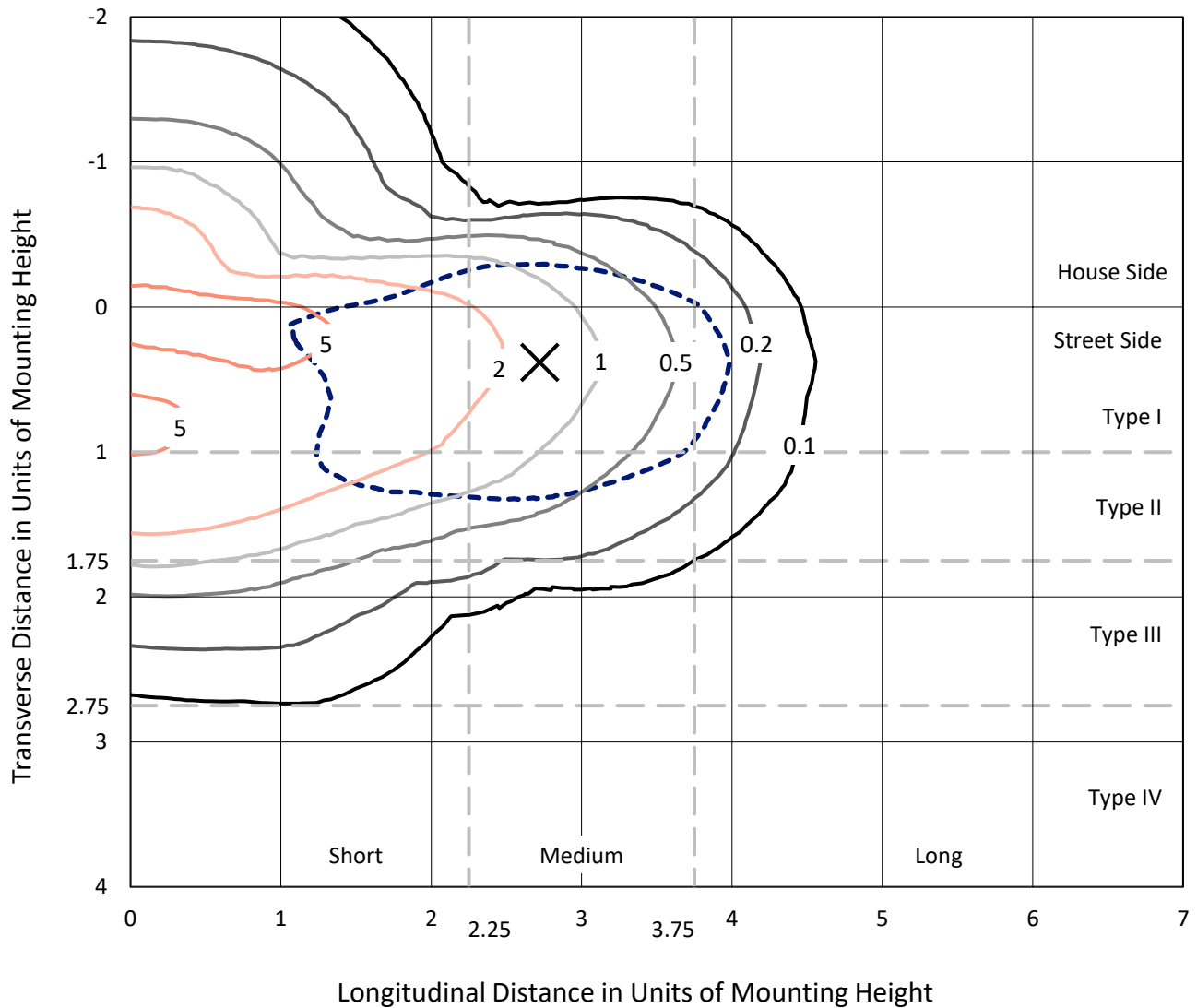
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

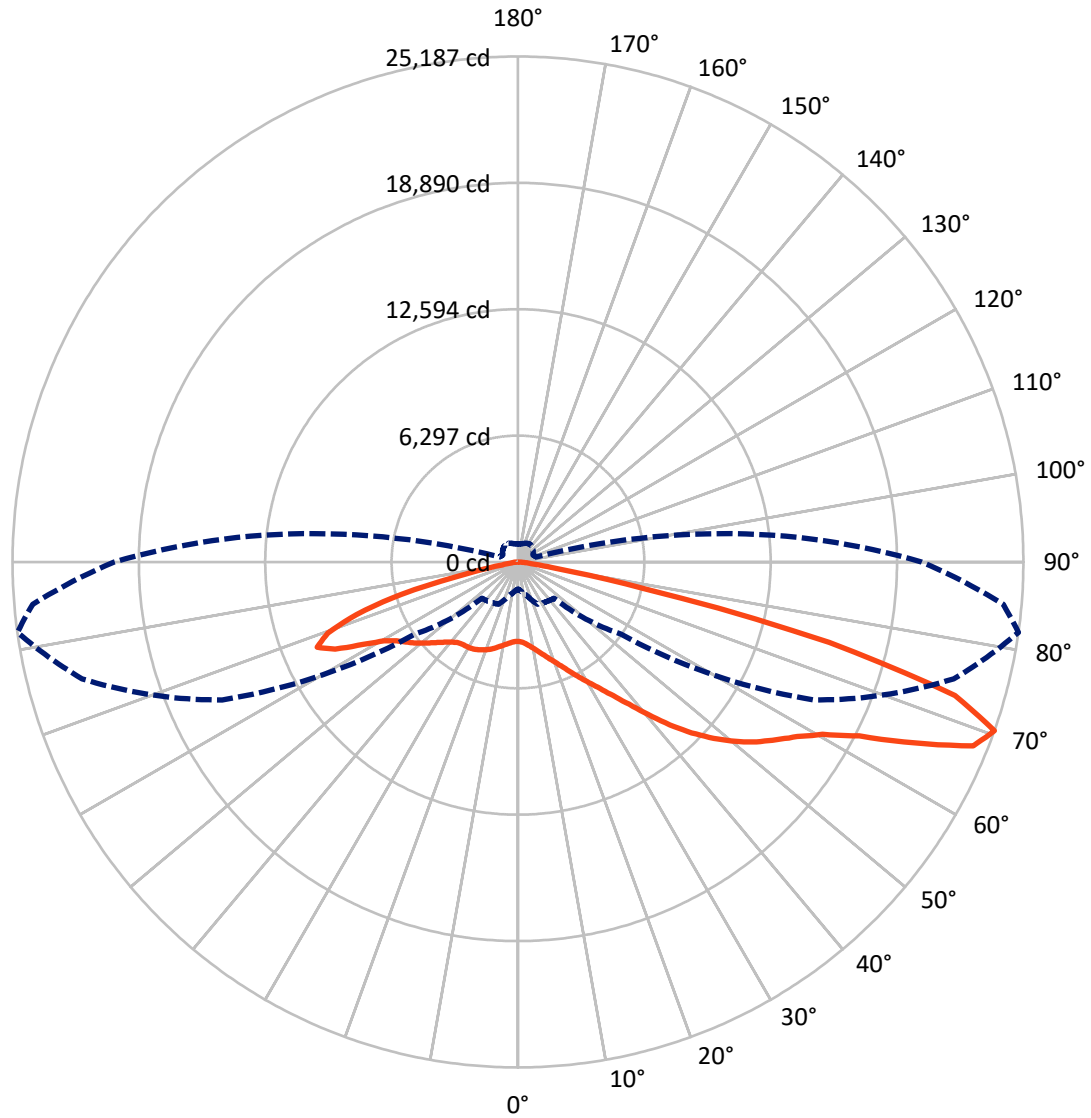
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	6644.6	0.0	6644.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20308.4	0.0	20308.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	26953.0	0.0	26953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	1.4
10°-20°	1072.0	4.0
20°-30°	1793.3	6.7
30°-40°	2801.6	10.4
40°-50°	4461.8	16.6
50°-60°	6209.1	23.0
60°-70°	6495.0	24.1
70°-80°	3394.7	12.6
80°-90°	352.5	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°	26953.0	100.0
0°-180°	26953.0	100.0

Coefficient of Utilization



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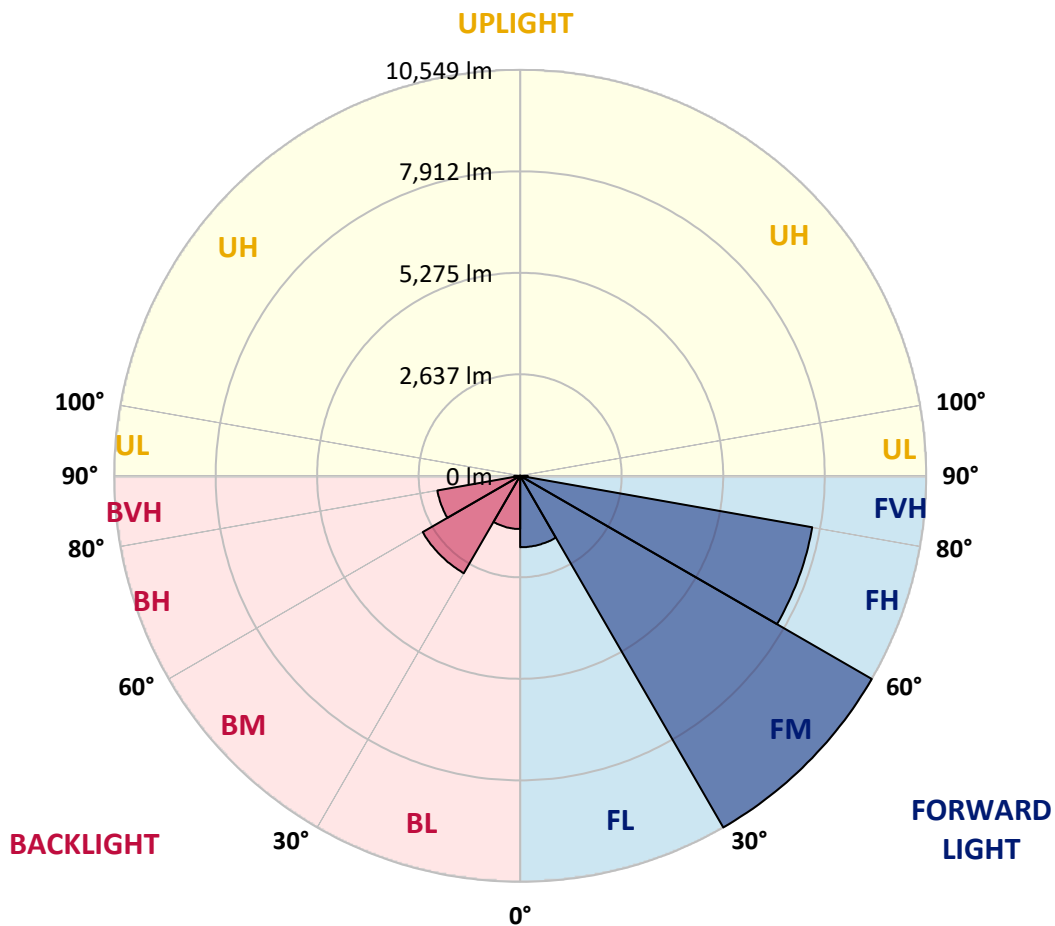
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.0	6.9			
FM (30°-60°)	10549.1	39.1			
FH (60°-80°)	7705.9	28.6			G4/12000
FVH (80°-90°)	197.3	0.7			G2/225
BL (0°-30°)	1382.3	5.1	B3/2500		
BM (30°-60°)	2923.3	10.8	B3/5000		
BH (60°-80°)	2183.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	155.2	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6
2.5°	4046.0	4068.9	4061.8	4054.6	4054.6	4044.6	4043.2	4028.9	4017.4	3998.8
5°	4097.5	4121.8	4119.0	4124.7	4143.3	4147.6	4151.9	4143.3	4120.4	4097.5
7.5°	4051.8	4078.9	4087.5	4121.8	4179.0	4230.5	4269.2	4284.9	4263.4	4230.5
10°	3897.3	3927.3	3957.4	4038.9	4140.4	4262.0	4365.0	4426.5	4422.2	4390.7
12.5°	3584.1	3615.5	3679.9	3838.7	4024.6	4239.1	4430.8	4559.5	4603.8	4580.9
15°	3333.8	3361.0	3409.6	3572.6	3814.3	4140.4	4455.1	4705.4	4818.3	4805.5
17.5°	3326.6	3338.1	3368.1	3445.4	3631.3	3986.0	4429.3	4848.4	5064.3	5062.9
20°	3452.5	3456.8	3474.0	3489.7	3595.5	3868.7	4363.5	4967.1	5340.4	5340.4
22.5°	3627.0	3624.1	3641.3	3627.0	3678.5	3858.7	4322.1	5071.5	5647.9	5670.7
25°	3888.7	3874.4	3870.1	3837.2	3847.2	3951.6	4367.8	5190.2	6012.6	6059.8
27.5°	4237.7	4214.8	4199.1	4123.3	4097.5	4143.3	4508.0	5333.2	6418.7	6500.3
30°	4692.5	4651.0	4628.1	4496.6	4403.6	4410.7	4719.7	5523.4	6843.5	6975.1
32.5°	5313.2	5248.8	5187.3	4971.4	4801.2	4745.4	4992.8	5786.6	7304.0	7514.3
35°	6008.3	5956.8	5891.0	5557.8	5296.0	5167.3	5361.8	6154.2	7843.2	8176.5
37.5°	6677.6	6633.3	6664.7	6215.7	5878.1	5690.8	5845.2	6647.6	8508.3	9000.3
40°	7369.8	7335.5	7339.8	6910.7	6517.4	6307.2	6431.6	7266.9	9270.6	9979.9
42.5°	8122.1	8096.4	8010.6	7630.1	7188.2	6992.3	7106.7	7982.0	10088.6	11095.5
45°	8964.5	8948.8	8868.7	8432.5	7926.2	7705.9	7860.4	8771.4	10911.0	12145.3
47.5°	9692.5	9705.3	9695.3	9327.8	8802.9	8479.7	8664.2	9595.2	11676.2	13132.1
50°	10042.9	10110.1	10208.8	10094.4	9768.3	9439.3	9475.1	10390.4	12405.6	14057.5
52.5°	9859.8	9987.1	10256.0	10439.0	10564.9	10496.2	10400.4	11179.9	13092.1	14892.7
55°	9177.6	9356.4	9802.6	10244.5	10886.7	11385.8	11511.7	12055.2	13761.4	15627.8
57.5°	7934.8	8225.1	8625.5	9519.4	10600.7	11816.3	12807.5	13269.4	14470.8	16413.0
60°	5803.8	6192.8	6690.5	8020.6	9599.5	11586.1	13910.1	15134.4	15479.1	17429.9
62.5°	3714.2	3954.5	4412.2	5665.0	7480.0	10406.1	14247.7	17465.6	17188.2	19097.5
65°	2542.9	2697.4	3116.4	3820.1	4835.5	7746.0	13343.8	19213.3	19902.7	21740.5
67.5°	1847.8	1965.1	2322.6	2939.1	3150.7	4583.8	10354.7	19133.2	22541.4	24463.6
70°	1347.2	1430.2	1730.5	2322.6	2424.2	2550.0	6272.9	16264.3	22484.2	25187.3
72.5°	998.3	1055.5	1257.1	1802.1	1962.2	1722.0	3105.0	11820.6	19320.6	22781.7
75°	722.3	765.2	913.9	1378.7	1570.4	1311.5	1548.9	6907.9	13476.8	16025.4
77.5°	552.1	585.0	682.2	1009.7	1257.1	984.0	961.1	3177.9	6390.1	6421.6
80°	443.4	464.8	517.7	710.8	964.0	736.6	626.4	1282.9	2019.4	1709.1
82.5°	326.1	361.8	437.6	499.1	689.4	507.7	381.9	647.9	768.0	660.8
85°	185.9	210.2	264.6	357.6	440.5	310.4	218.8	287.5	357.6	293.2
87.5°	65.8	85.8	93.0	140.2	191.6	128.7	84.4	83.0	117.3	87.2
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°
3951.6	0°	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6	3951.6
3994.6	2.5°	3980.3	3973.1	3944.5	3905.9	3865.8	3827.2	3814.3	3787.2	3768.6	3758.6
4087.5	5°	4060.3	4037.5	3970.2	3884.4	3794.3	3697.1	3628.4	3565.5	3519.7	3476.8
4214.8	7.5°	4174.8	4134.7	4018.9	3868.7	3708.5	3546.9	3426.8	3335.2	3273.7	3233.7
4363.5	10°	4307.8	4246.3	4068.9	3844.4	3597.0	3365.3	3223.7	3145.0	3106.4	3084.9
4533.7	12.5°	4460.8	4373.6	4120.4	3788.6	3426.8	3162.2	3064.9	3042.0	3043.5	3044.9
4748.3	15°	4649.6	4528.0	4161.9	3667.0	3205.1	3006.3	2989.1	3026.3	3064.9	3083.5
4991.4	17.5°	4862.7	4691.1	4169.0	3466.8	2987.7	2906.2	2960.5	3040.6	3099.2	3125.0
5263.1	20°	5091.5	4857.0	4117.6	3183.6	2808.9	2824.6	2921.9	3024.9	3089.2	3122.1
5573.5	22.5°	5353.2	5034.3	3994.6	2886.1	2663.0	2736.0	2850.4	2950.5	3017.7	3050.6
5938.2	25°	5652.2	5233.1	3801.5	2635.9	2537.2	2635.9	2750.3	2833.2	2887.6	2917.6
6345.8	27.5°	5984.0	5440.5	3544.0	2437.1	2427.1	2532.9	2627.3	2691.6	2720.2	2743.1
6779.2	30°	6317.2	5629.3	3232.3	2286.9	2331.2	2431.3	2498.6	2527.2	2535.7	2540.0
7262.6	32.5°	6677.6	5792.3	2904.7	2162.5	2239.7	2332.7	2372.7	2385.6	2345.5	2318.4
7848.9	35°	7113.8	5966.8	2584.4	2063.8	2149.6	2229.7	2242.6	2231.1	2183.9	2128.1
8584.1	37.5°	7653.0	6184.2	2328.4	1993.7	2065.2	2118.1	2102.4	2099.5	2103.8	2038.0
9467.9	40°	8313.8	6467.4	2141.0	1939.4	1996.6	2008.0	1963.7	1988.0	2009.4	1909.3
10437.6	42.5°	9047.5	6809.2	2022.3	1902.2	1939.4	1912.2	1843.5	1870.7	1867.8	1736.3
11411.6	45°	9795.5	7181.0	1980.8	1875.0	1886.4	1832.1	1756.3	1763.4	1703.4	1584.7
12345.5	47.5°	10539.2	7580.1	2006.6	1852.1	1820.6	1759.1	1700.5	1669.0	1580.4	1491.7
13240.8	50°	11268.6	7999.1	2101.0	1806.3	1730.5	1694.8	1651.9	1596.1	1501.7	1425.9
14087.5	52.5°	11945.0	8421.0	2206.8	1730.5	1617.6	1639.0	1611.8	1547.5	1454.5	1377.3
14888.4	55°	12585.8	8842.9	2248.3	1626.1	1511.7	1590.4	1574.7	1455.9	1344.4	1281.5
15726.5	57.5°	13283.7	9350.7	2202.5	1493.1	1425.9	1534.6	1474.5	1343.0	1278.6	1231.4
16817.7	60°	14250.5	10147.3	2103.8	1328.7	1344.4	1451.7	1348.7	1294.3	1224.3	1171.3
18453.9	62.5°	15856.6	11633.3	1945.1	1165.6	1248.6	1328.7	1288.6	1234.3	1162.8	1111.3
21251.4	65°	18230.8	13698.5	1646.2	1038.3	1141.3	1208.5	1224.3	1169.9	1095.5	1041.2
23702.7	67.5°	20233.1	14994.2	1245.7	932.5	1031.2	1111.3	1155.6	1102.7	1024.0	971.1
24276.2	70°	20122.9	14053.2	951.1	828.1	933.9	1015.4	1072.7	1031.2	946.8	896.7
22050.8	72.5°	17873.2	11756.3	769.4	722.3	835.2	915.3	984.0	952.5	866.7	818.1
16154.1	75°	13130.7	8345.2	615.0	615.0	712.2	810.9	886.7	866.7	788.0	753.7
6782.0	77.5°	5534.9	3501.1	482.0	510.6	592.1	696.5	790.9	798.1	729.4	772.3
1793.5	80°	1471.7	965.4	367.6	401.9	464.8	574.9	687.9	685.1	610.7	570.7
666.5	82.5°	560.6	380.4	261.7	283.2	336.1	440.5	544.9	562.1	487.7	421.9
261.7	85°	216.0	163.0	161.6	170.2	195.9	291.8	411.9	426.2	367.6	311.8
72.9	87.5°	55.8	48.6	60.1	57.2	90.1	155.9	236.0	244.6	224.5	130.1
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>
3951.6
3770.0
3494.0
3242.3
3090.7
3047.8
3082.1
3130.7
3130.7
3059.2
2926.2
2751.7
2550.0
2326.9
2131.0
2042.3
1912.2
1734.8
1589.0
1491.7
1420.2
1378.7
1275.7
1227.1
1168.5
1111.3
1044.0
972.5
901.0
818.1
743.7
700.8
530.6
421.9
321.8
185.9
0.0

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