

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: P941715

Luminaire Tested: **GALN-SB5B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941715
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-SB5B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26959 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

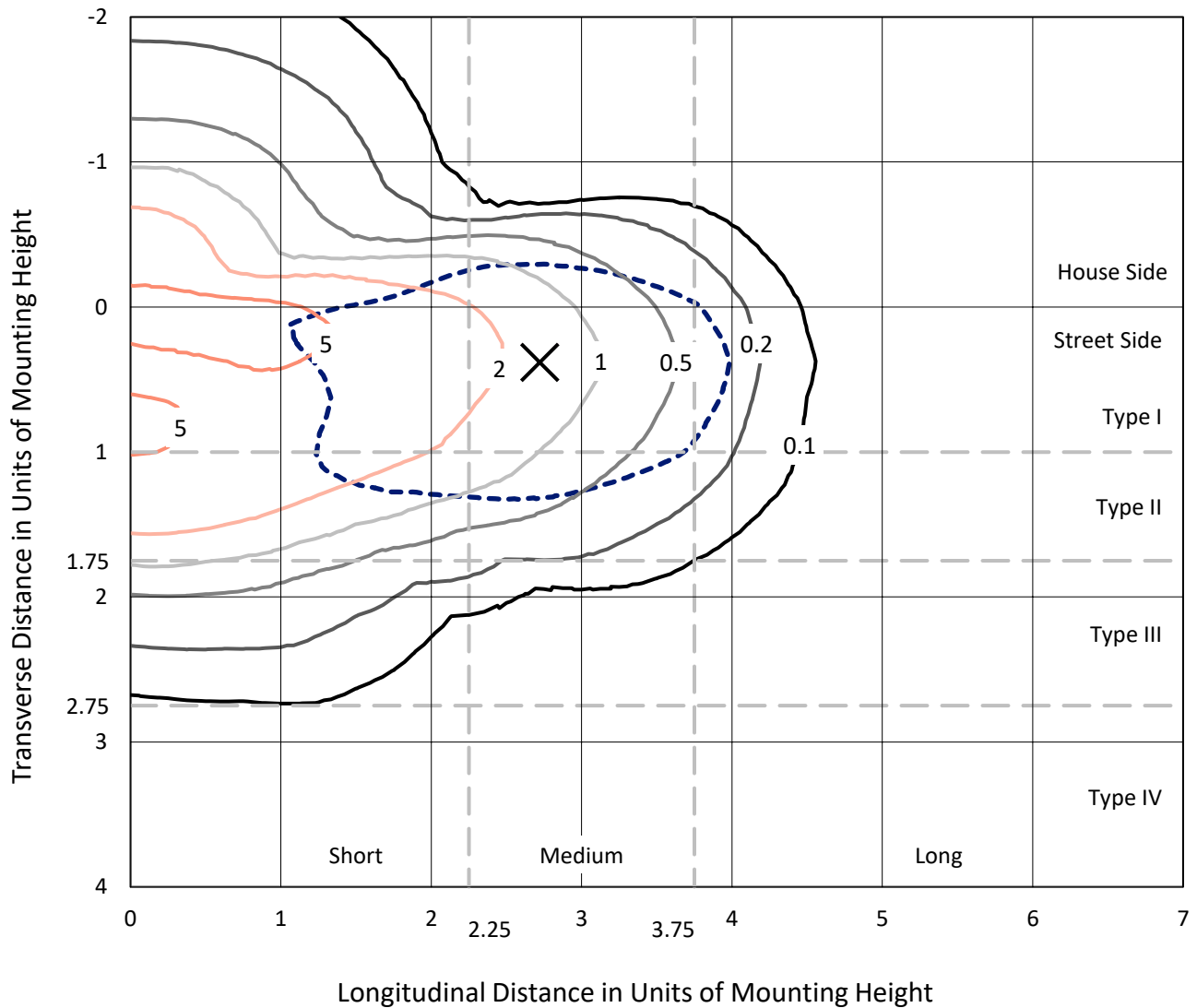
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

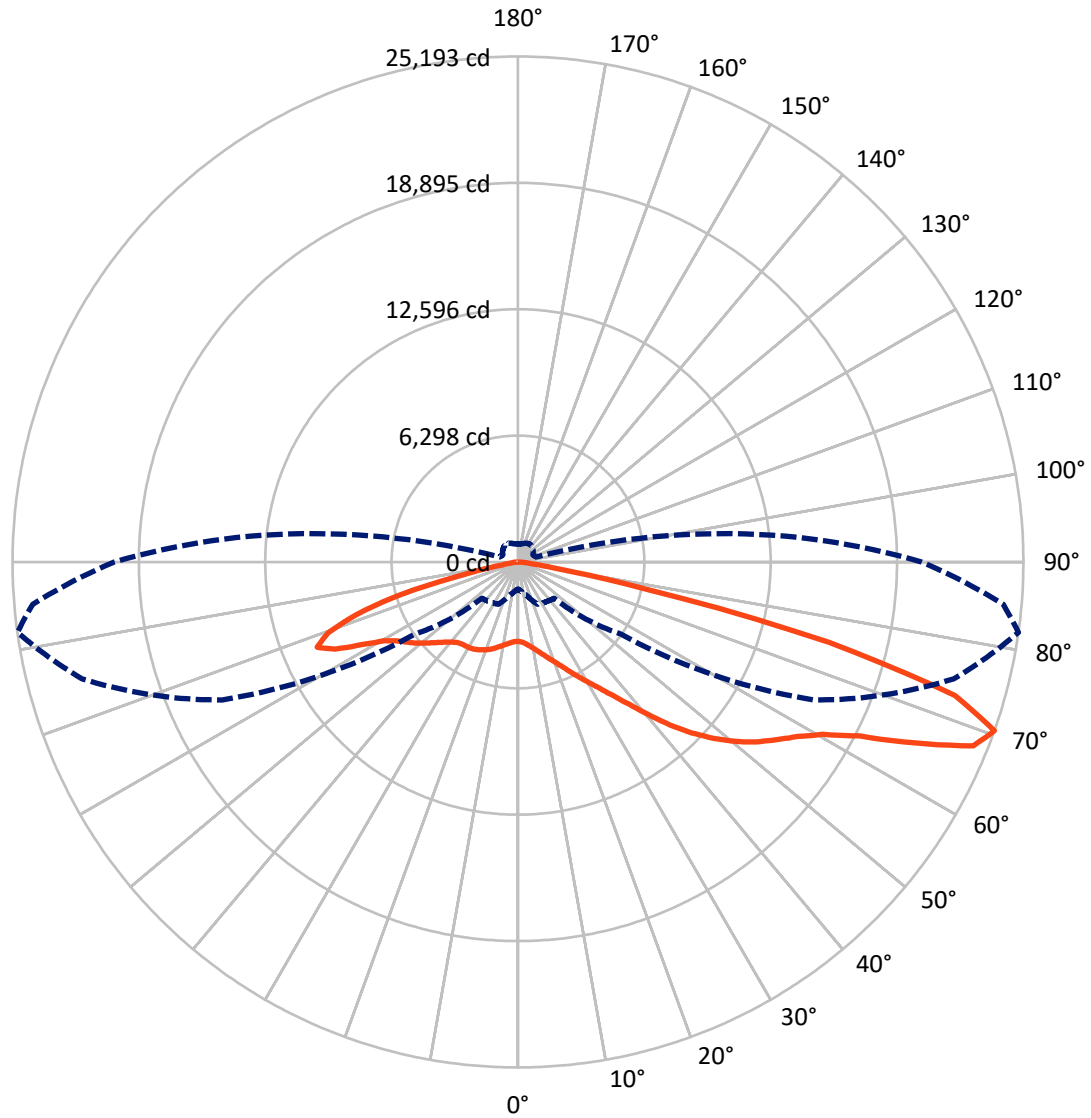
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6646.0	0.0	6646.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20312.9	0.0	20312.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	26959.0	0.0	26959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	1.4
10°-20°	1072.2	4.0
20°-30°	1793.7	6.7
30°-40°	2802.2	10.4
40°-50°	4462.8	16.6
50°-60°	6210.5	23.0
60°-70°	6496.5	24.1
70°-80°	3395.4	12.6
80°-90°	352.6	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°	26959.0	100.0
0°-180°	26959.0	100.0

Coefficient of Utilization



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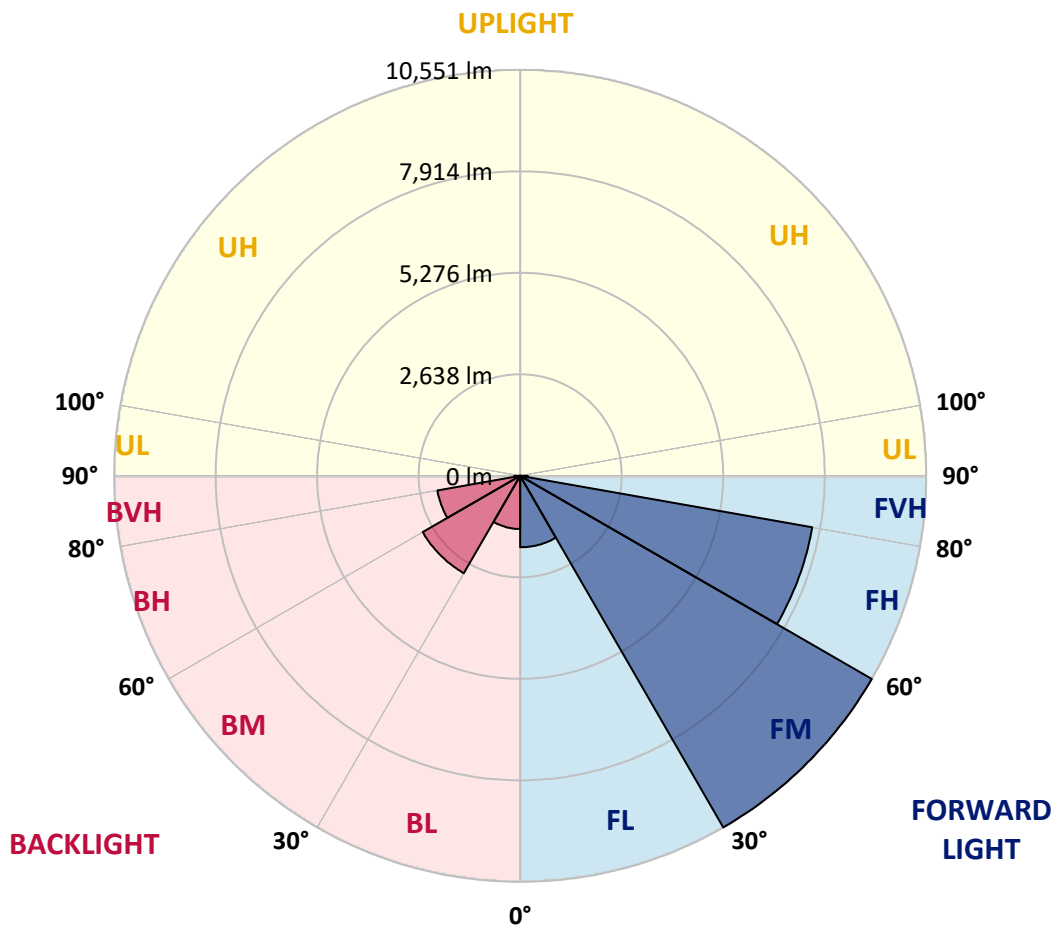
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.4	6.9			
FM (30°-60°)	10551.5	39.1			
FH (60°-80°)	7707.7	28.6			G4/12000
FVH (80°-90°)	197.4	0.7			G2/225
BL (0°-30°)	1382.6	5.1	B3/2500		
BM (30°-60°)	2924.0	10.8	B3/5000		
BH (60°-80°)	2184.2	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°	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5
2.5°	4046.9	4069.8	4062.7	4055.5	4055.5	4045.5	4044.1	4029.8	4018.3	3999.7
5°	4098.4	4122.8	4119.9	4125.6	4144.2	4148.5	4152.8	4144.2	4121.3	4098.4
7.5°	4052.7	4079.8	4088.4	4122.8	4180.0	4231.5	4270.1	4285.8	4264.4	4231.5
10°	3898.2	3928.2	3958.2	4039.8	4141.4	4262.9	4365.9	4427.5	4423.2	4391.7
12.5°	3584.9	3616.4	3680.7	3839.5	4025.5	4240.1	4431.8	4560.5	4604.8	4582.0
15°	3334.5	3361.7	3410.4	3573.4	3815.2	4141.4	4456.1	4706.4	4819.4	4806.5
17.5°	3327.4	3338.8	3368.9	3446.1	3632.1	3986.9	4430.3	4849.5	5065.5	5064.0
20°	3453.3	3457.6	3474.7	3490.5	3596.3	3869.6	4364.5	4968.2	5341.6	5341.6
22.5°	3627.8	3624.9	3642.1	3627.8	3679.3	3859.5	4323.0	5072.6	5649.1	5672.0
25°	3889.6	3875.3	3871.0	3838.1	3848.1	3952.5	4368.8	5191.4	6013.9	6061.1
27.5°	4238.6	4215.7	4200.0	4124.2	4098.4	4144.2	4509.0	5334.4	6420.2	6501.7
30°	4693.5	4652.1	4629.2	4497.6	4404.6	4411.7	4720.7	5524.7	6845.0	6976.6
32.5°	5314.4	5250.0	5188.5	4972.5	4802.3	4746.5	4993.9	5787.9	7305.7	7516.0
35°	6009.6	5958.1	5892.3	5559.0	5297.2	5168.5	5363.0	6155.5	7845.0	8178.3
37.5°	6679.1	6634.8	6666.2	6217.0	5879.4	5692.0	5846.5	6649.1	8510.2	9002.3
40°	7371.5	7337.1	7341.4	6912.3	6518.9	6308.6	6433.0	7268.5	9272.6	9982.2
42.5°	8123.9	8098.2	8012.3	7631.8	7189.8	6993.8	7108.3	7983.7	10090.9	11098.0
45°	8966.5	8950.8	8870.7	8434.3	7927.9	7707.6	7862.1	8773.4	10913.4	12148.0
47.5°	9694.6	9707.5	9697.5	9329.9	8804.9	8481.6	8666.1	9597.4	11678.8	13135.0
50°	10045.1	10112.3	10211.1	10096.6	9770.5	9441.4	9477.2	10392.7	12408.3	14060.6
52.5°	9862.0	9989.3	10258.3	10441.4	10567.3	10498.6	10402.7	11182.4	13095.0	14896.0
55°	9179.6	9358.5	9804.8	10246.8	10889.1	11388.4	11514.3	12057.9	13764.5	15631.3
57.5°	7936.5	8226.9	8627.5	9521.5	10603.0	11819.0	12810.3	13272.4	14474.0	16416.6
60°	5805.0	6194.2	6692.0	8022.4	9601.6	11588.6	13913.2	15137.8	15482.5	17433.7
62.5°	3715.1	3955.4	4413.2	5666.3	7481.6	10408.5	14250.8	17469.5	17192.0	19101.7
65°	2543.5	2698.0	3117.1	3820.9	4836.6	7747.7	13346.8	19217.6	19907.1	21745.3
67.5°	1848.2	1965.5	2323.2	2939.7	3151.4	4584.8	10357.0	19137.5	22546.4	24469.0
70°	1347.5	1430.5	1730.9	2323.2	2424.7	2550.6	6274.3	16267.9	22489.2	25192.9
72.5°	998.5	1055.7	1257.4	1802.5	1962.7	1722.3	3105.7	11823.2	19324.9	22786.8
75°	722.4	765.3	914.1	1379.0	1570.7	1311.8	1549.3	6909.4	13479.8	16029.0
77.5°	552.2	585.1	682.4	1009.9	1257.4	984.2	961.3	3178.6	6391.6	6423.0
80°	443.5	464.9	517.8	711.0	964.2	736.7	626.6	1283.2	2019.9	1709.5
82.5°	326.2	361.9	437.7	499.3	689.5	507.8	381.9	648.0	768.2	660.9
85°	186.0	210.3	264.6	357.6	440.6	310.4	218.9	287.5	357.6	293.3
87.5°	65.8	85.8	93.0	140.2	191.7	128.7	84.4	83.0	117.3	87.3
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°
3952.5	0°	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5
3995.4	2.5°	3981.1	3974.0	3945.4	3906.7	3866.7	3828.1	3815.2	3788.0	3769.4	3759.4
4088.4	5°	4061.2	4038.4	3971.1	3885.3	3795.2	3697.9	3629.2	3566.3	3520.5	3477.6
4215.7	7.5°	4175.7	4135.6	4019.8	3869.6	3709.3	3547.7	3427.5	3336.0	3274.5	3234.4
4364.5	10°	4308.7	4247.2	4069.8	3845.2	3597.8	3366.0	3224.4	3145.7	3107.1	3085.6
4534.7	12.5°	4461.8	4374.5	4121.3	3789.4	3427.5	3162.9	3065.6	3042.7	3044.1	3045.6
4749.3	15°	4650.6	4529.0	4162.8	3667.9	3205.8	3007.0	2989.8	3027.0	3065.6	3084.2
4992.5	17.5°	4863.8	4692.1	4170.0	3467.6	2988.4	2906.8	2961.2	3041.3	3099.9	3125.7
5264.3	20°	5092.7	4858.0	4118.5	3184.3	2809.5	2825.3	2922.6	3025.5	3089.9	3122.8
5574.7	22.5°	5354.4	5035.4	3995.4	2886.8	2663.6	2736.6	2851.0	2951.2	3018.4	3051.3
5939.5	25°	5653.4	5234.3	3802.3	2636.4	2537.7	2636.4	2750.9	2833.9	2888.2	2918.3
6347.2	27.5°	5985.3	5441.7	3544.8	2437.6	2427.6	2533.5	2627.9	2692.2	2720.8	2743.7
6780.7	30°	6318.6	5630.5	3233.0	2287.4	2331.7	2431.9	2499.1	2527.7	2536.3	2540.6
7264.2	32.5°	6679.1	5793.6	2905.4	2162.9	2240.2	2333.2	2373.2	2386.1	2346.1	2318.9
7850.7	35°	7115.4	5968.1	2584.9	2064.2	2150.1	2230.2	2243.1	2231.6	2184.4	2128.6
8586.0	37.5°	7654.7	6185.6	2328.9	1994.1	2065.7	2118.6	2102.9	2100.0	2104.3	2038.5
9470.0	40°	8315.6	6468.8	2141.5	1939.8	1997.0	2008.4	1964.1	1988.4	2009.9	1909.7
10439.9	42.5°	9049.5	6810.7	2022.8	1902.6	1939.8	1912.6	1843.9	1871.1	1868.3	1736.7
11414.1	45°	9797.6	7182.6	1981.3	1875.4	1886.9	1832.5	1756.7	1763.8	1703.7	1585.0
12348.2	47.5°	10541.5	7581.8	2007.0	1852.5	1821.1	1759.5	1700.9	1669.4	1580.7	1492.0
13243.8	50°	11271.1	8000.9	2101.4	1806.7	1730.9	1695.2	1652.3	1596.5	1502.0	1426.2
14090.6	52.5°	11947.7	8422.9	2207.3	1730.9	1617.9	1639.4	1612.2	1547.8	1454.8	1377.6
14891.7	55°	12588.6	8844.9	2248.8	1626.5	1512.1	1590.7	1575.0	1456.3	1344.7	1281.7
15730.0	57.5°	13286.7	9352.7	2203.0	1493.5	1426.2	1534.9	1474.9	1343.3	1278.9	1231.7
16821.5	60°	14253.7	10149.5	2104.3	1329.0	1344.7	1452.0	1349.0	1294.6	1224.5	1171.6
18458.0	62.5°	15860.2	11635.8	1945.5	1165.9	1248.8	1329.0	1288.9	1234.5	1163.0	1111.5
21256.1	65°	18234.8	13701.5	1646.5	1038.6	1141.6	1208.8	1224.5	1170.2	1095.8	1041.4
23708.0	67.5°	20237.6	14997.6	1246.0	932.7	1031.4	1111.5	1155.9	1102.9	1024.3	971.3
24281.6	70°	20127.4	14056.3	951.3	828.3	934.1	1015.7	1072.9	1031.4	947.0	896.9
22055.8	72.5°	17877.2	11758.9	769.6	722.4	835.4	915.5	984.2	952.7	866.9	818.3
16157.7	75°	13133.6	8347.1	615.1	615.1	712.4	811.1	886.9	866.9	788.2	753.9
6783.5	77.5°	5536.1	3501.9	482.1	510.7	592.2	696.7	791.1	798.2	729.6	772.5
1793.9	80°	1472.0	965.6	367.6	402.0	464.9	575.1	688.1	685.2	610.8	570.8
666.6	82.5°	560.8	380.5	261.8	283.2	336.2	440.6	545.0	562.2	487.8	422.0
261.8	85°	216.0	163.1	161.6	170.2	196.0	291.8	412.0	426.3	367.6	311.9
73.0	87.5°	55.8	48.6	60.1	57.2	90.1	155.9	236.0	244.6	224.6	130.2
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>
3952.5
3770.9
3494.8
3243.0
3091.4
3048.4
3082.8
3131.4
3131.4
3059.9
2926.8
2752.3
2550.6
2327.5
2131.5
2042.8
1912.6
1735.2
1589.3
1492.0
1420.5
1379.0
1276.0
1227.4
1168.7
1111.5
1044.3
972.8
901.2
818.3
743.9
701.0
530.7
422.0
321.9
186.0
0.0

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