

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: P942357

Luminaire Tested: **GALN-SB6B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29713 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

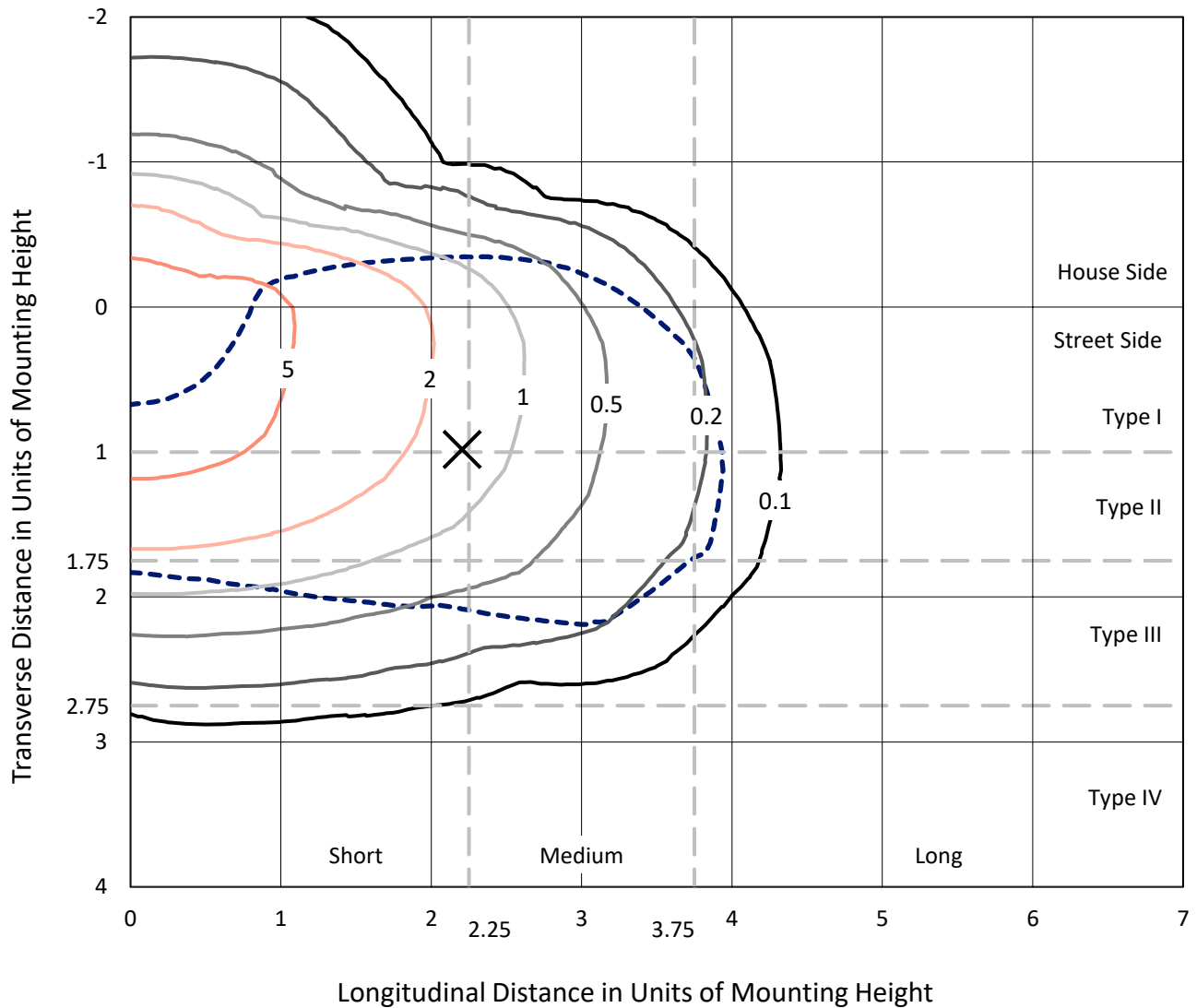
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

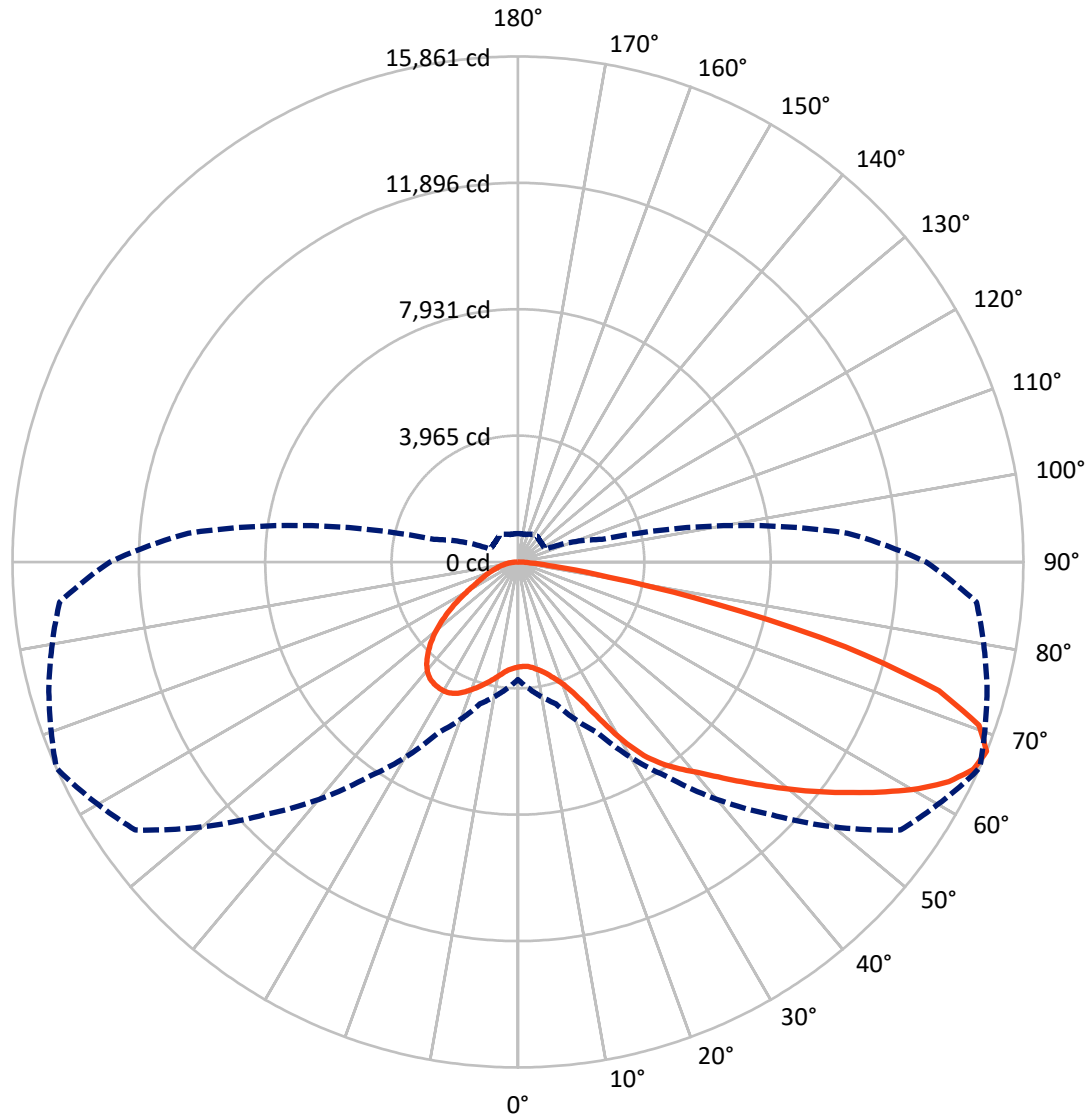
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7388.1	0.0	7388.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22324.9	0.0	22324.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	29713.0	0.0	29713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	1.1
10°-20°	1079.5	3.6
20°-30°	2080.7	7.0
30°-40°	3648.2	12.3
40°-50°	5423.7	18.3
50°-60°	6875.1	23.1
60°-70°	6727.1	22.6
70°-80°	3208.9	10.8
80°-90°	342.9	1.2
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°	29713.0	100.0
0°-180°	29713.0	100.0

Coefficient of Utilization



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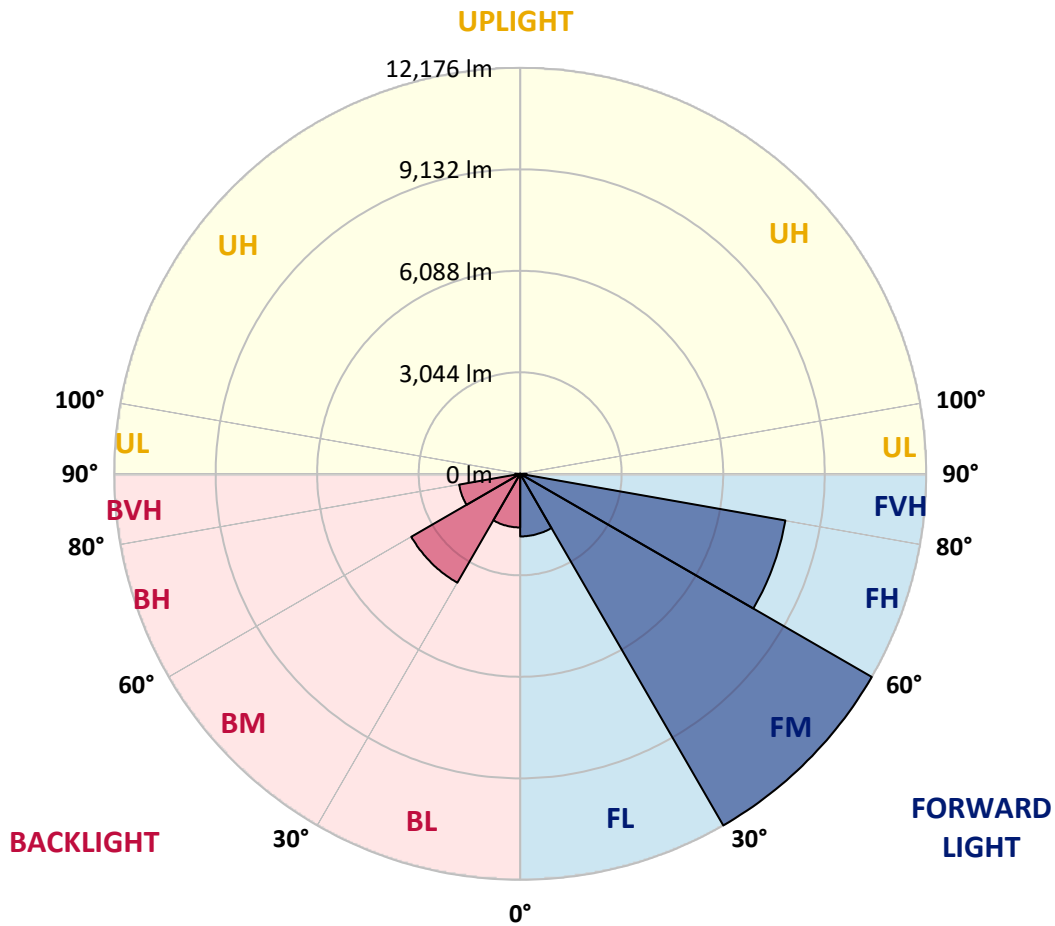
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.6	6.3			
FM (30°-60°)	12176.1	41.0			
FH (60°-80°)	8076.8	27.2			G4/12000
FVH (80°-90°)	194.4	0.7			G2/225
BL (0°-30°)	1609.4	5.4	B3/2500		
BM (30°-60°)	3770.9	12.7	B3/5000		
BH (60°-80°)	1859.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	148.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6
2.5°	3261.2	3280.0	3275.3	3267.5	3265.9	3269.0	3273.7	3278.4	3276.8	3284.6
5°	3251.9	3270.6	3269.0	3269.0	3275.3	3287.8	3295.6	3303.4	3295.6	3304.9
7.5°	3258.1	3272.1	3278.4	3284.6	3300.2	3323.7	3342.4	3359.6	3350.2	3361.1
10°	3337.7	3348.6	3354.9	3354.9	3365.8	3392.4	3411.1	3442.3	3434.5	3451.7
12.5°	3482.9	3493.8	3493.8	3487.6	3495.4	3512.6	3518.8	3553.2	3539.1	3567.2
15°	3660.9	3682.7	3665.6	3654.6	3657.7	3674.9	3673.4	3699.9	3685.8	3709.3
17.5°	3857.6	3885.7	3857.6	3856.0	3849.8	3868.5	3870.1	3893.5	3868.5	3885.7
20°	4090.2	4129.2	4105.8	4113.6	4099.6	4107.4	4115.2	4149.5	4110.5	4123.0
22.5°	4418.0	4464.9	4439.9	4469.5	4460.2	4453.9	4452.4	4513.3	4452.4	4457.1
25°	4895.7	4951.9	4908.2	4948.8	4948.8	4969.1	4992.5	5070.6	4969.1	4939.4
27.5°	5601.4	5657.6	5571.7	5596.7	5588.9	5638.8	5613.9	5807.4	5698.2	5649.8
30°	6450.6	6550.5	6388.2	6381.9	6374.1	6453.7	6489.7	6617.7	6506.8	6458.4
32.5°	7368.6	7473.2	7279.6	7223.4	7193.7	7242.1	7212.5	7315.5	7239.0	7164.1
35°	8339.6	8442.6	8258.4	8149.1	8030.5	7929.0	7822.9	7849.4	7777.6	7663.6
37.5°	9257.6	9446.5	9251.3	9134.2	8915.7	8717.4	8420.8	8297.5	8230.3	8125.7
40°	10192.7	10300.4	10152.1	10052.2	9814.9	9504.2	9029.6	8768.9	8678.4	8576.9
42.5°	10881.1	10984.2	10904.6	10835.9	10650.1	10289.5	9675.9	9349.7	9218.5	9104.6
45°	11427.5	11504.0	11454.1	11479.1	11399.4	11049.7	10345.7	9972.6	9836.7	9697.8
47.5°	11647.7	11728.8	11808.5	11956.8	12092.6	11835.0	11065.4	10647.0	10503.3	10361.3
50°	11622.7	11705.4	11936.5	12251.8	12673.3	12587.5	11824.1	11365.1	11232.4	11070.0
52.5°	11422.9	11516.5	11813.1	12337.7	13009.0	13151.0	12596.8	12106.6	11981.7	11788.2
55°	10898.3	10954.5	11399.4	12142.5	13088.6	13544.4	13354.0	12896.6	12771.7	12501.6
57.5°	9925.7	10006.9	10654.8	11616.4	12888.8	13811.4	14019.0	13727.1	13606.9	13218.2
60°	8656.5	8786.1	9527.6	10732.8	12379.8	13809.8	14623.2	14543.6	14443.7	13923.8
62.5°	7220.3	7370.1	8083.6	9483.9	11490.0	13418.0	15001.0	15227.3	15175.8	14574.8
65°	5545.2	5648.2	6358.5	7868.1	10105.3	12576.5	15044.7	15694.1	15703.5	15069.7
67.5°	3692.1	3988.7	4605.4	5904.2	8250.6	11201.2	14660.7	15770.6	15861.2	15239.8
70°	1801.6	2191.8	2796.0	3837.3	5904.2	9092.1	13656.8	15143.0	15344.4	14743.4
72.5°	747.8	874.2	1203.6	1893.7	3389.2	6135.3	11639.9	13441.4	13814.5	13063.6
75°	504.2	546.4	688.5	971.0	1544.0	3025.5	8394.2	10022.5	10623.6	9866.4
77.5°	388.7	415.3	501.1	679.1	917.9	1144.3	4493.0	6040.0	6350.7	5879.2
80°	306.0	326.3	374.7	494.9	651.0	612.0	1531.5	2736.7	2916.2	2446.3
82.5°	265.4	273.2	268.5	335.6	432.4	357.5	502.7	1010.1	1114.7	808.7
85°	192.0	213.9	223.2	207.6	229.5	181.1	206.1	357.5	393.4	351.3
87.5°	78.1	115.5	142.1	134.3	84.3	51.5	64.0	104.6	120.2	131.1
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°
3295.6	0°	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6	3295.6
3297.1	2.5°	3298.7	3309.6	3317.4	3326.8	3333.0	3342.4	3361.1	3372.1	3373.6	3381.4
3322.1	5°	3328.3	3344.0	3361.1	3386.1	3414.2	3437.6	3473.5	3498.5	3507.9	3515.7
3383.0	7.5°	3392.4	3414.2	3445.4	3489.1	3529.7	3561.0	3604.7	3634.3	3664.0	3674.9
3479.8	10°	3487.6	3518.8	3564.1	3623.4	3667.1	3707.7	3753.0	3778.0	3807.6	3820.1
3595.3	12.5°	3606.2	3639.0	3698.3	3781.1	3821.7	3849.8	3865.4	3859.1	3865.4	3876.3
3734.2	15°	3742.1	3778.0	3845.1	3934.1	3962.2	3937.2	3902.8	3871.6	3866.9	3870.1
3902.8	17.5°	3902.8	3929.4	4007.4	4082.4	4062.1	3959.0	3884.1	3834.2	3809.2	3801.4
4118.3	20°	4127.7	4127.7	4191.7	4238.5	4102.7	3927.8	3810.7	3729.6	3678.0	3656.2
4411.8	22.5°	4400.9	4375.9	4416.5	4383.7	4094.9	3840.4	3678.0	3537.5	3459.5	3428.3
4822.4	25°	4747.4	4717.8	4706.8	4503.9	4038.7	3701.5	3437.6	3267.5	3198.8	3181.6
5414.0	27.5°	5270.4	5195.5	5053.4	4569.5	3935.6	3482.9	3156.6	2998.9	2959.9	2961.5
6174.3	30°	5966.7	5816.8	5468.7	4580.4	3767.0	3173.8	2869.4	2757.0	2738.2	2746.0
6812.8	32.5°	6611.4	6469.4	5893.3	4530.4	3507.9	2870.9	2611.8	2536.9	2508.8	2518.1
7299.9	35°	7117.2	7078.2	6286.7	4460.2	3189.4	2586.8	2380.7	2316.7	2262.1	2249.6
7758.9	37.5°	7594.9	7579.3	6581.8	4361.8	2874.1	2385.4	2195.0	2110.7	2031.0	1987.3
8266.2	40°	8119.5	8103.9	6775.3	4210.4	2594.6	2210.6	2027.9	1917.1	1818.7	1739.1
8840.7	42.5°	8709.6	8617.5	6867.5	3993.4	2357.3	2062.3	1892.1	1742.2	1612.7	1539.3
9490.2	45°	9354.3	9146.7	6865.9	3717.1	2157.5	1926.4	1746.9	1534.6	1414.4	1345.7
10156.8	47.5°	10038.1	9652.5	6781.6	3411.1	1963.9	1776.6	1522.1	1359.8	1280.1	1238.0
10881.1	50°	10743.8	10125.5	6638.0	3059.8	1765.6	1606.4	1381.6	1270.8	1209.9	1170.9
11599.3	52.5°	11407.2	10554.9	6464.7	2661.7	1564.3	1440.9	1319.2	1233.3	1169.3	1125.6
12295.5	55°	12023.9	10924.9	6219.6	2254.3	1400.3	1330.1	1289.5	1217.7	1144.3	1092.8
13002.7	57.5°	12571.9	11165.3	5796.5	1871.8	1283.3	1253.6	1258.3	1191.1	1106.8	1063.1
13699.0	60°	13027.7	11341.7	5170.5	1517.4	1188.0	1178.7	1209.9	1141.2	1042.8	992.9
14287.5	62.5°	13300.9	11338.6	4402.4	1242.7	1106.8	1110.0	1145.9	1078.7	978.8	932.0
14595.1	65°	13277.5	11060.7	3559.4	1063.1	1028.8	1031.9	1078.7	1010.1	925.8	897.7
14440.5	67.5°	12807.6	10383.1	2730.4	946.1	942.9	957.0	1011.6	963.2	893.0	889.8
13519.5	70°	11535.3	8976.5	1967.0	852.4	853.9	874.2	946.1	933.6	875.8	882.0
11366.7	72.5°	9249.7	6844.0	1320.7	754.0	755.6	788.4	883.6	910.1	858.6	941.4
8064.8	75°	6160.3	4268.2	849.3	649.4	651.0	693.1	829.0	864.9	811.8	938.2
4196.3	77.5°	2959.9	1918.6	615.1	546.4	546.4	585.4	716.6	774.3	691.6	729.1
1348.8	80°	1022.5	721.2	484.0	440.2	430.9	457.4	604.2	671.3	596.4	549.5
440.2	82.5°	402.8	374.7	388.7	341.9	310.7	327.8	469.9	554.2	438.7	396.5
248.2	85°	231.0	243.5	274.8	226.4	179.5	201.4	345.0	398.1	331.0	291.9
81.2	87.5°	62.4	85.9	126.5	117.1	81.2	85.9	163.9	220.1	190.5	146.7
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>
3295.6
3379.9
3514.1
3676.5
3826.4
3879.4
3881.0
3812.3
3651.5
3423.6
3184.7
2966.2
2772.6
2530.6
2259.0
1988.9
1746.9
1544.0
1342.6
1228.6
1156.8
1106.8
1072.5
1035.0
971.0
917.9
896.1
894.5
880.5
953.9
946.1
668.2
515.2
395.0
298.2
151.4
0.0

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