

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: P952196

Luminaire Tested: **GALN-SB6A-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26368 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

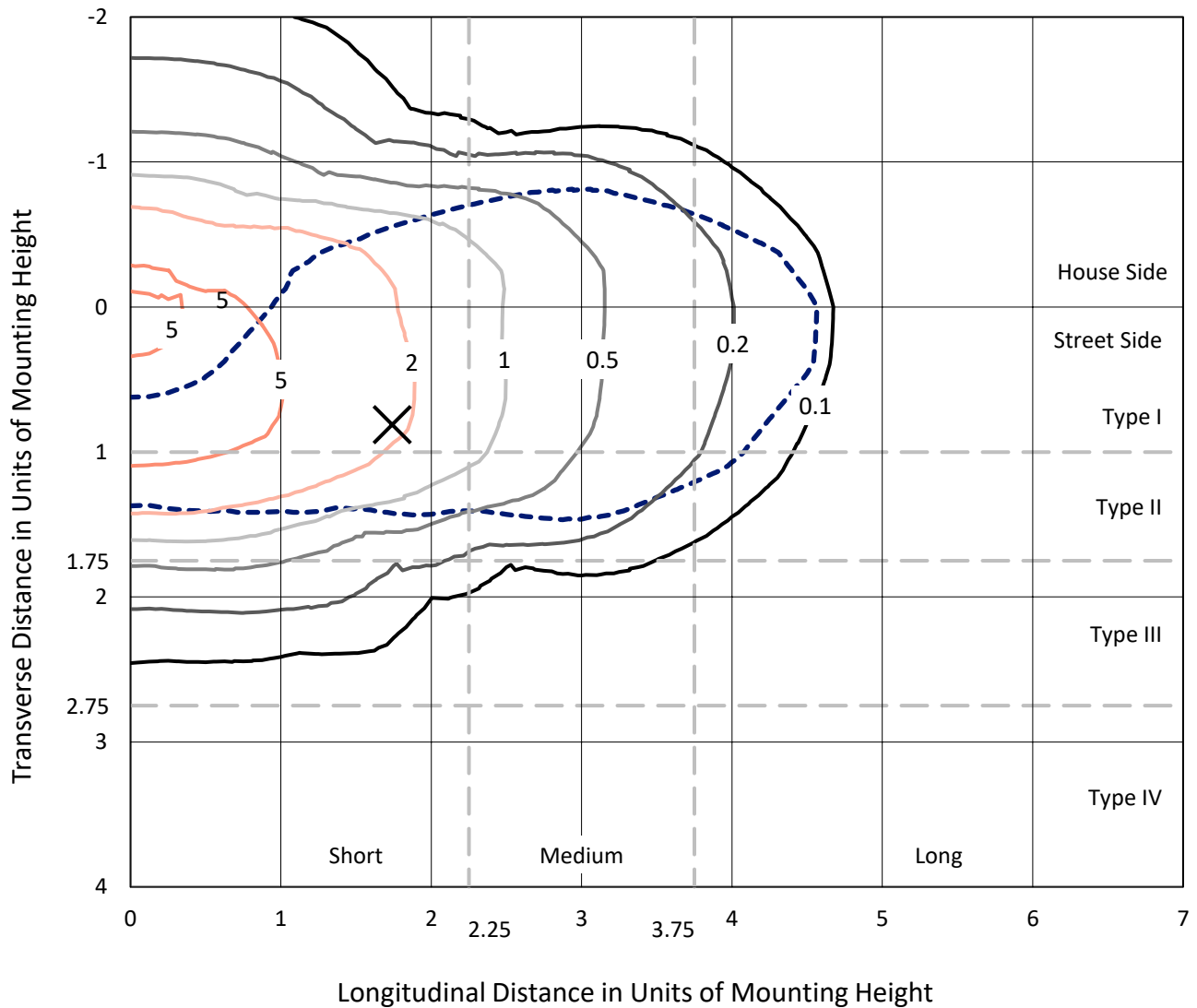
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

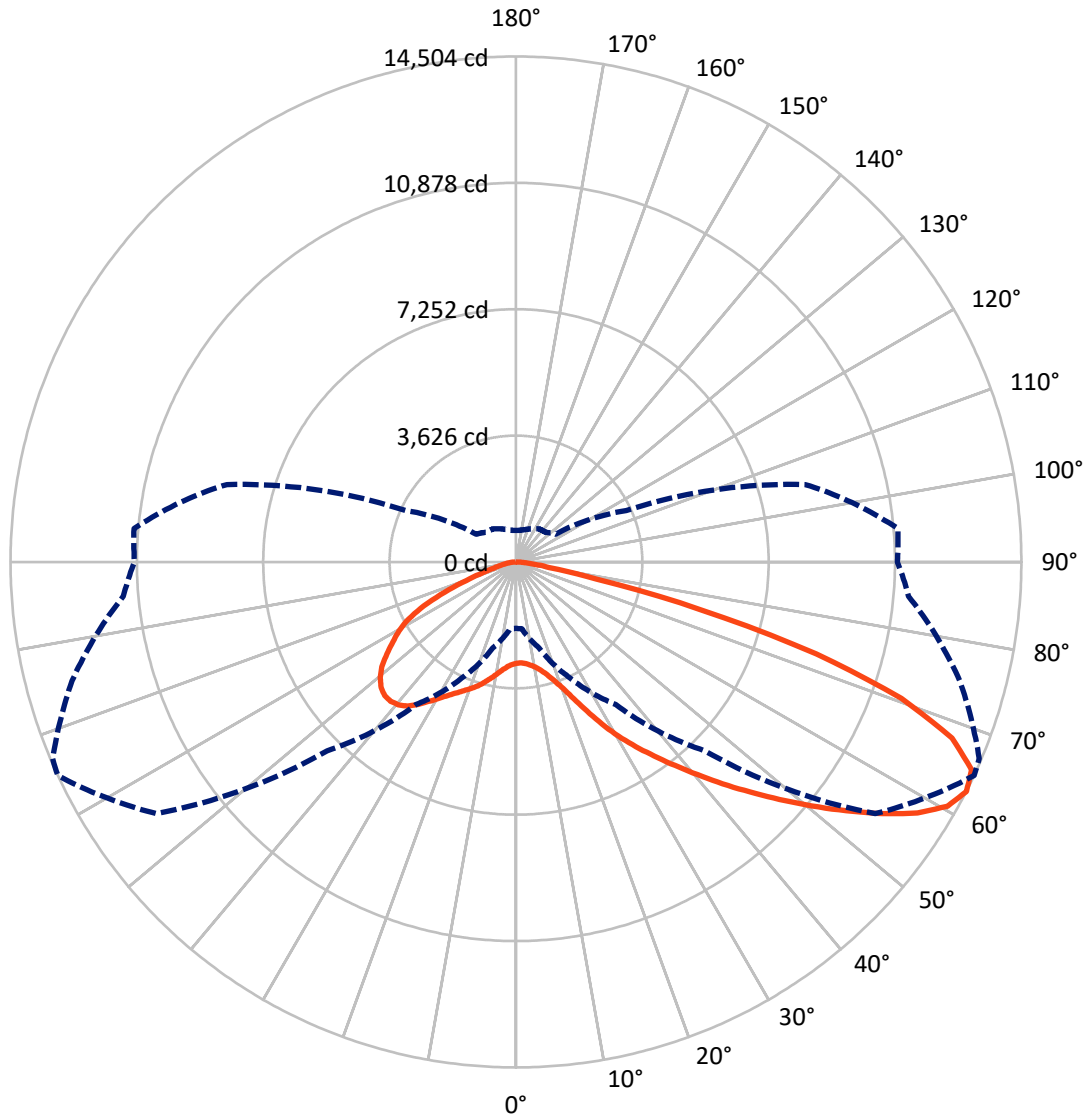
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8320.6	0.0	8320.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18047.4	0.0	18047.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	26368.0	0.0	26368.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	1.1
10°-20°	982.4	3.7
20°-30°	1991.8	7.6
30°-40°	3446.8	13.1
40°-50°	5216.1	19.8
50°-60°	6115.6	23.2
60°-70°	5127.2	19.4
70°-80°	2830.6	10.7
80°-90°	367.7	1.4
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°	26368.0	100.0
0°-180°	26368.0	100.0

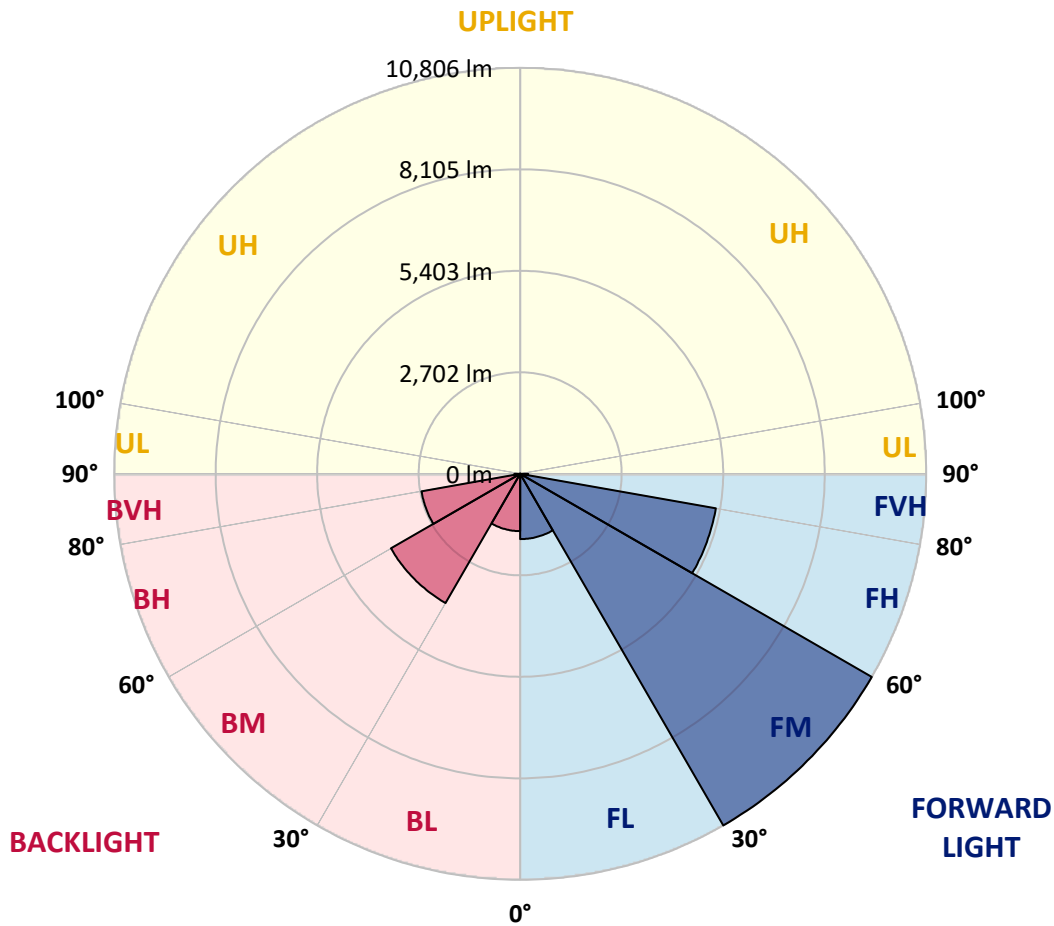


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.0	6.6			
FM (30°-60°)	10806.5	41.0			
FH (60°-80°)	5288.6	20.1			G3/7500
FVH (80°-90°)	214.3	0.8			G2/225
BL (0°-30°)	1525.9	5.8	B3/2500		
BM (30°-60°)	3972.1	15.1	B3/5000		
BH (60°-80°)	2669.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	153.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6
2.5°	2886.5	2878.3	2885.1	2885.1	2887.9	2886.5	2896.1	2898.8	2902.9	2911.1
5°	2857.8	2856.4	2868.7	2879.6	2890.6	2900.2	2912.5	2930.3	2933.0	2942.6
7.5°	2848.2	2840.0	2859.1	2872.8	2898.8	2922.1	2954.9	2985.0	2997.3	3001.4
10°	2922.1	2908.4	2926.2	2934.4	2956.3	2979.5	3017.8	3065.7	3079.4	3095.8
12.5°	3047.9	3032.9	3058.9	3071.2	3091.7	3112.2	3138.2	3184.7	3191.6	3221.6
15°	3220.3	3202.5	3218.9	3234.0	3268.2	3287.3	3313.3	3358.4	3358.4	3381.7
17.5°	3454.2	3431.0	3443.3	3448.7	3470.6	3499.4	3543.1	3582.8	3603.3	3595.1
20°	3803.0	3774.3	3774.3	3747.0	3738.8	3762.0	3819.5	3874.2	3896.1	3853.7
22.5°	4327.0	4286.0	4262.7	4169.7	4132.7	4135.5	4192.9	4260.0	4277.7	4202.5
25°	4993.2	4928.9	4897.5	4760.7	4677.2	4604.7	4649.8	4736.0	4760.7	4667.6
27.5°	5659.4	5663.5	5633.4	5469.3	5331.1	5198.4	5175.2	5265.4	5291.4	5186.1
30°	6593.8	6496.6	6439.2	6242.2	6045.2	5859.2	5763.4	5800.3	5807.2	5681.3
32.5°	7399.5	7374.9	7251.8	7079.4	6826.3	6535.0	6374.9	6316.1	6305.1	6125.9
35°	8317.5	8303.8	8173.8	7968.6	7695.0	7290.1	7001.4	6833.2	6819.5	6567.8
37.5°	9250.4	9250.4	9123.2	8898.9	8615.7	8109.5	7670.4	7403.6	7359.9	7031.5
40°	9994.6	9949.5	9972.7	9878.4	9554.1	9016.5	8413.2	8026.1	7967.3	7573.3
42.5°	10417.3	10402.3	10541.8	10647.2	10514.5	10084.9	9231.3	8700.5	8618.4	8169.7
45°	10511.7	10495.3	10744.3	11130.1	11316.1	11139.7	10120.5	9410.5	9310.6	8793.5
47.5°	10294.2	10261.4	10626.7	11235.4	11831.9	12142.4	11083.6	10180.7	10035.7	9400.9
50°	9640.3	9608.9	10161.5	10970.0	12005.6	12823.7	12128.7	10997.4	10775.8	10052.1
52.5°	8219.0	8234.0	9100.0	10210.8	11777.1	13247.7	13028.9	11857.9	11591.1	10718.3
55°	6402.3	6435.1	7499.4	8722.4	10863.3	13183.4	13643.1	12744.3	12478.9	11344.9
57.5°	4584.2	4729.2	5726.5	6937.1	9108.2	12164.3	13777.2	13587.0	13329.8	12028.9
60°	2971.3	2997.3	4023.3	5243.6	6935.8	10353.0	13504.9	14225.9	14024.8	12726.5
62.5°	1904.3	1922.0	2547.2	3667.6	4991.8	7659.5	12588.4	14503.6	14442.0	13187.6
65°	1399.5	1385.8	1711.4	2424.1	3362.6	4723.7	10808.6	14369.5	14491.3	13476.2
67.5°	1168.3	1149.1	1309.2	1678.5	2477.5	2682.7	7997.3	13498.1	13944.1	13443.4
70°	1064.3	1047.9	1145.0	1246.3	1933.0	1796.2	4031.5	11734.7	12421.5	13069.9
72.5°	901.5	872.8	1005.5	1106.7	1503.4	1377.6	1666.2	9013.8	9851.0	11872.9
75°	699.0	679.9	793.4	974.0	1130.0	1075.3	1053.4	5473.4	6387.2	9182.0
77.5°	554.0	528.0	632.0	759.2	1016.4	811.2	767.4	2357.1	3262.7	5861.9
80°	417.2	394.0	480.2	600.6	781.1	611.5	496.6	961.7	1229.8	2969.9
82.5°	296.9	276.3	335.2	440.5	525.3	548.6	305.1	539.0	606.0	1145.0
85°	190.2	177.8	224.4	276.3	333.8	352.9	186.0	281.8	309.2	472.0
87.5°	104.0	84.8	120.4	128.6	154.6	140.9	88.9	102.6	110.8	171.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2905.6	0°	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6
2911.1	2.5°	2916.6	2920.7	2934.4	2938.5	2948.0	2960.4	2968.6	2976.8	2976.8	2985.0
2954.9	5°	2956.3	2965.8	2994.6	3009.6	3034.2	3058.9	3073.9	3091.7	3102.6	3108.1
3024.7	7.5°	3032.9	3047.9	3089.0	3114.9	3157.4	3191.6	3214.8	3239.4	3244.9	3260.0
3121.8	10°	3136.8	3154.6	3201.1	3250.4	3301.0	3343.4	3365.3	3383.1	3389.9	3392.6
3246.3	12.5°	3255.8	3281.8	3342.0	3402.2	3455.6	3492.5	3498.0	3493.9	3474.7	3458.3
3399.5	15°	3402.2	3425.5	3492.5	3558.2	3610.2	3617.0	3582.8	3560.9	3537.7	3533.6
3570.5	17.5°	3577.3	3589.6	3651.2	3715.5	3719.6	3696.3	3645.7	3625.2	3603.3	3588.3
3793.5	20°	3781.2	3777.1	3820.8	3848.2	3819.5	3748.3	3671.7	3637.5	3615.6	3597.8
4067.1	22.5°	4024.7	3993.2	3987.7	3980.9	3904.3	3755.2	3651.2	3607.4	3573.2	3548.6
4448.7	25°	4379.0	4258.6	4175.1	4128.6	3956.3	3718.2	3585.5	3488.4	3424.1	3381.7
4915.2	27.5°	4822.2	4619.7	4409.1	4295.5	3956.3	3643.0	3426.8	3269.5	3164.2	3120.4
5366.7	30°	5244.9	5032.9	4722.3	4496.6	3946.7	3519.9	3171.0	2952.2	2829.0	2785.3
5752.5	32.5°	5606.1	5374.9	5054.8	4716.9	3923.4	3320.1	2853.7	2611.5	2492.5	2440.5
6134.1	35°	5941.2	5695.0	5388.6	4959.0	3861.9	3027.4	2504.8	2320.1	2187.4	2104.0
6522.6	37.5°	6284.6	5991.9	5704.6	5177.9	3751.1	2685.4	2236.7	2079.4	1923.4	1811.2
6935.8	40°	6658.1	6307.9	6042.5	5307.9	3569.1	2359.8	2028.7	1885.1	1719.6	1600.6
7411.8	42.5°	7094.5	6686.8	6418.7	5374.9	3320.1	2128.6	1893.3	1752.4	1596.5	1499.3
7922.1	45°	7550.0	7104.0	6762.0	5373.5	3042.4	2020.5	1849.5	1710.0	1537.6	1436.4
8446.1	47.5°	8027.4	7540.4	7058.9	5286.0	2801.7	2035.6	1824.9	1618.3	1428.2	1329.7
8975.5	50°	8506.2	8017.9	7346.2	5121.8	2699.1	2002.8	1733.3	1489.8	1265.4	1176.5
9472.1	52.5°	8980.9	8525.4	7593.8	4887.9	2595.1	1881.0	1615.6	1322.9	1198.4	1136.8
9985.1	55°	9458.4	9027.5	7863.3	4547.2	2335.2	1738.7	1418.6	1259.9	1145.0	1088.9
10487.1	57.5°	9937.2	9607.5	8119.1	4206.6	2008.2	1563.6	1310.5	1183.3	1091.7	1043.8
10907.1	60°	10435.1	10271.0	8383.1	3893.3	1685.4	1339.3	1231.2	1121.8	1028.7	975.4
11310.7	62.5°	10948.1	11001.5	8589.7	3489.8	1388.5	1202.5	1160.1	1047.9	957.6	907.0
11644.4	65°	11465.2	11706.0	8725.1	2930.3	1125.9	1072.5	1083.5	967.2	875.5	831.7
11889.3	67.5°	11855.1	12213.5	8686.8	2217.5	923.4	949.4	987.7	882.4	796.2	762.0
11849.6	70°	11898.9	12153.3	8309.3	1518.5	772.9	829.0	881.0	798.9	710.0	685.4
11291.5	72.5°	11316.1	11332.5	7257.3	991.8	653.9	727.8	768.8	714.1	627.9	603.3
9878.4	75°	9788.1	9372.2	5328.4	653.9	547.2	625.2	663.5	625.2	541.7	547.2
7391.3	77.5°	7415.9	6637.6	3235.3	465.1	456.9	525.3	577.3	549.9	478.8	537.6
3716.9	80°	3820.8	3591.0	1443.2	347.5	361.2	420.0	474.7	439.1	378.9	361.2
830.4	82.5°	875.5	1017.8	569.1	249.0	261.3	302.3	362.5	329.7	272.2	229.8
346.1	85°	306.4	335.2	251.7	156.0	153.2	188.8	246.2	220.2	184.7	147.7
146.4	87.5°	97.1	127.2	94.4	62.9	65.7	84.8	113.5	104.0	86.2	56.1
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>
2905.6
2985.0
3110.8
3254.5
3385.8
3458.3
3533.6
3589.6
3599.2
3556.8
3398.1
3142.3
2811.2
2466.5
2131.3
1841.3
1623.8
1518.5
1452.8
1343.4
1182.0
1136.8
1083.5
1035.6
971.3
905.6
830.4
763.3
686.7
601.9
528.0
473.3
329.7
227.1
156.0
58.8
0.0

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