

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: P950644

Luminaire Tested: **GALN-SB5A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24611 lumens
Efficiency: N/A
Efficacy: 173.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

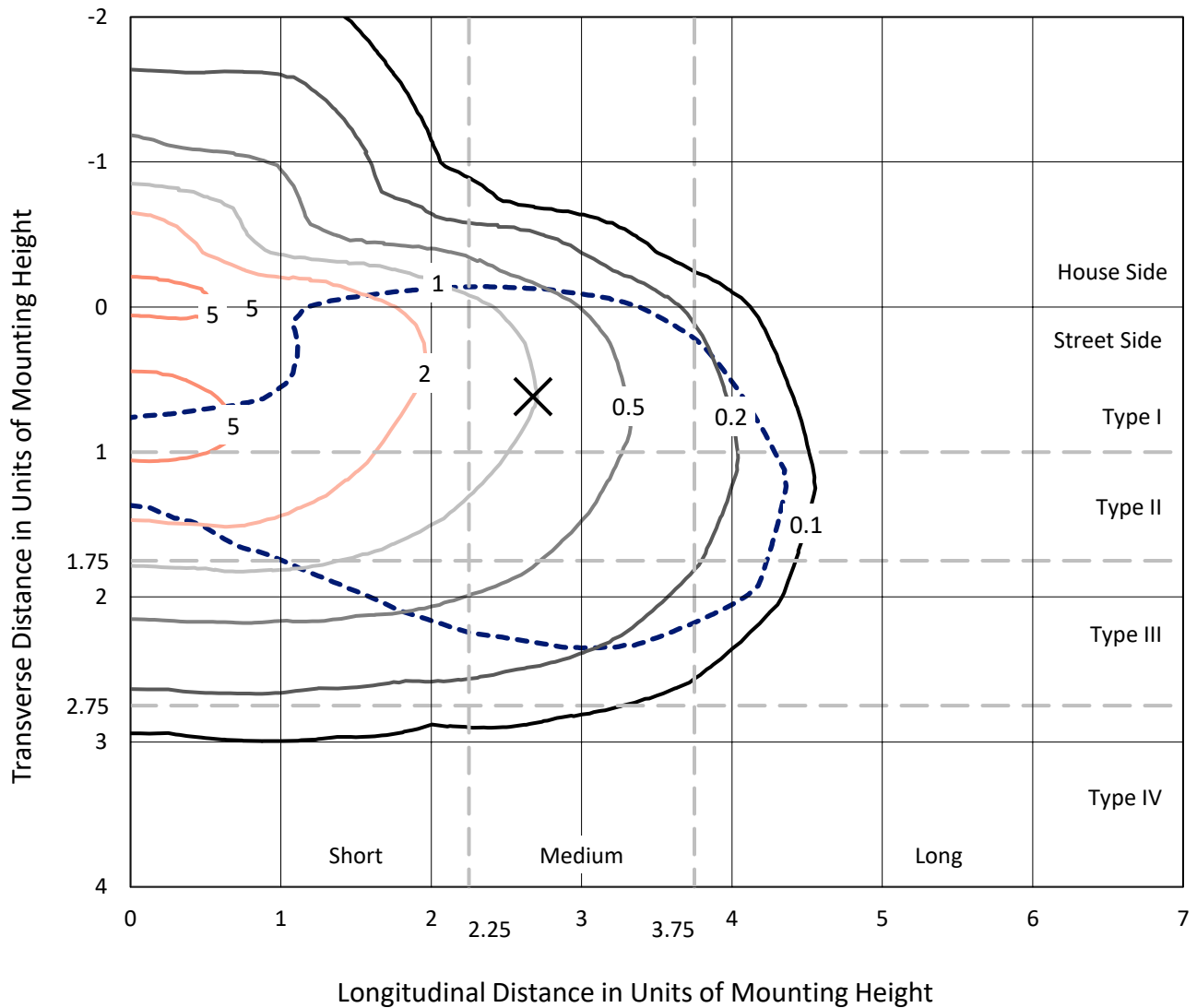
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

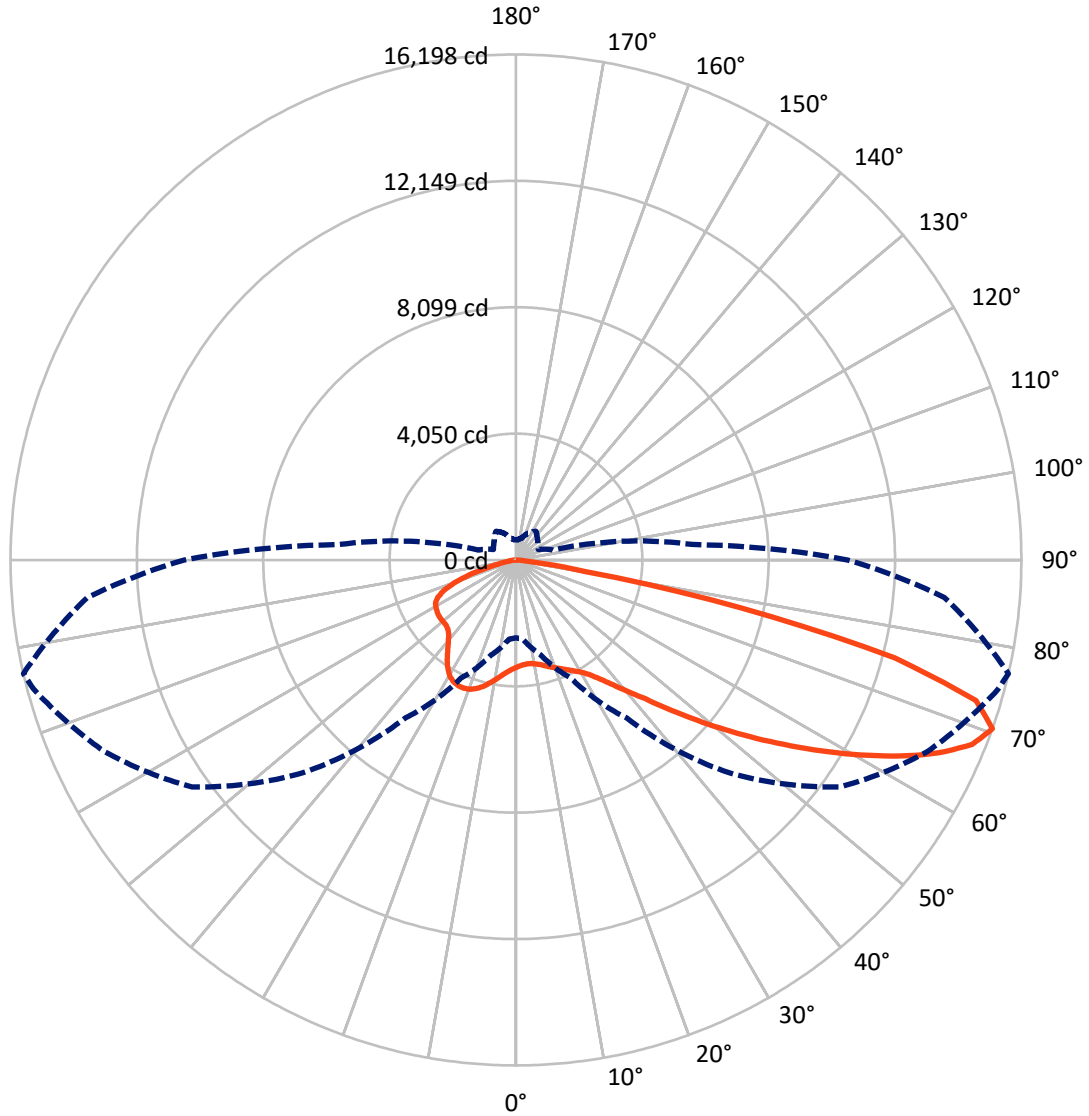
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.4	0.0	5389.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19221.6	0.0	19221.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	24611.0	0.0	24611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	1.3
10°-20°	945.1	3.8
20°-30°	1616.2	6.6
30°-40°	2599.0	10.6
40°-50°	4057.8	16.5
50°-60°	5420.2	22.0
60°-70°	5777.1	23.5
70°-80°	3556.4	14.5
80°-90°	311.6	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°	24611.0	100.0
0°-180°	24611.0	100.0



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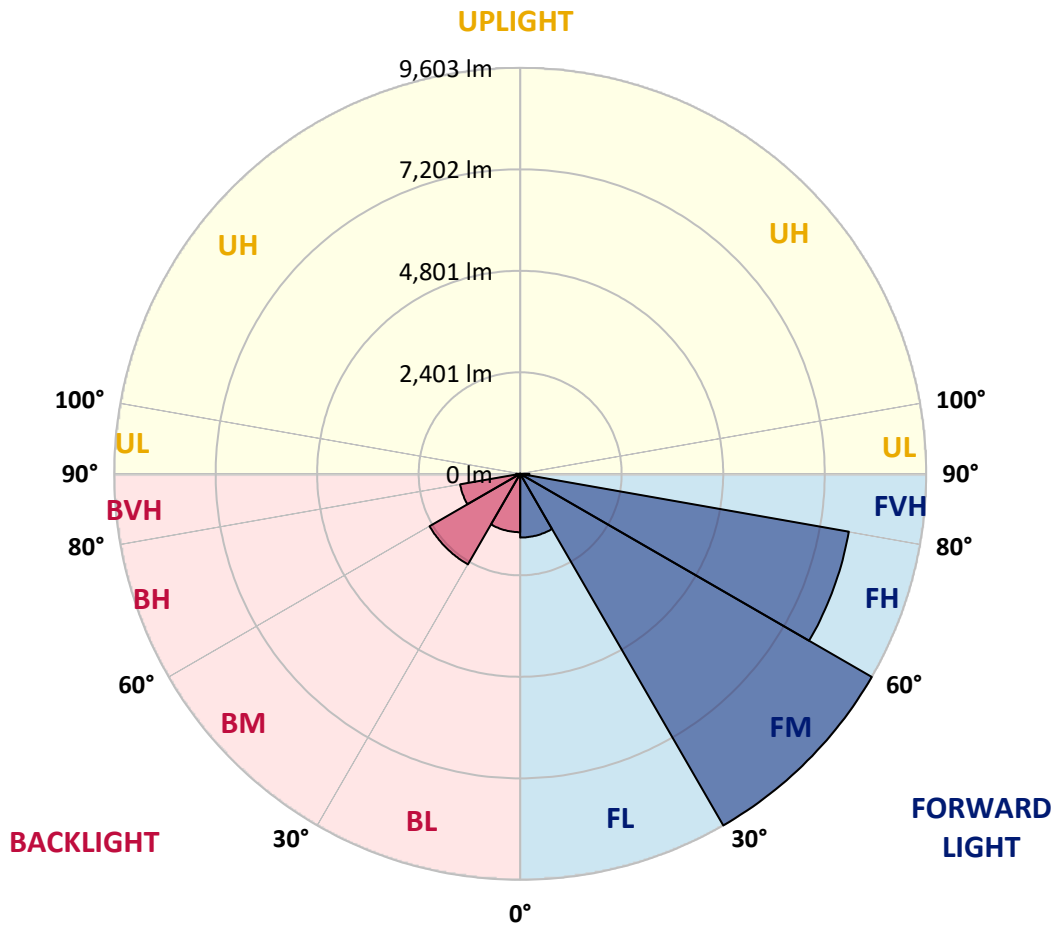
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.8	6.1			
FM (30°-60°)	9602.7	39.0			
FH (60°-80°)	7893.2	32.1			G4/12000
FVH (80°-90°)	217.9	0.9			G2/225
BL (0°-30°)	1380.9	5.6	B3/2500		
BM (30°-60°)	2474.4	10.1	B2/2500		
BH (60°-80°)	1440.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	93.7	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5
2.5°	3165.0	3163.7	3180.1	3185.2	3215.4	3236.8	3277.2	3320.0	3375.5	3381.8
5°	2982.2	2982.2	3001.1	3021.3	3060.4	3103.2	3165.0	3239.4	3335.1	3350.3
7.5°	2827.2	2837.3	2853.7	2892.7	2938.1	2999.9	3094.4	3200.3	3326.3	3350.3
10°	2702.4	2713.7	2733.9	2765.4	2833.5	2919.2	3042.7	3178.8	3347.7	3385.6
12.5°	2663.3	2674.7	2686.0	2710.0	2773.0	2873.8	3021.3	3188.9	3399.4	3437.2
15°	2754.1	2767.9	2759.1	2752.8	2785.6	2877.6	3031.4	3225.5	3463.7	3517.9
17.5°	2963.3	2968.4	2948.2	2888.9	2883.9	2933.1	3079.3	3275.9	3544.4	3603.6
20°	3301.1	3292.3	3250.7	3133.5	3066.7	3056.6	3161.2	3351.5	3627.6	3690.6
22.5°	3759.9	3749.8	3666.6	3481.4	3332.6	3234.3	3279.7	3449.8	3720.8	3791.4
25°	4332.2	4318.3	4196.0	3943.9	3713.3	3470.0	3441.0	3579.7	3835.5	3901.1
27.5°	5000.2	4988.9	4856.5	4523.7	4191.0	3792.7	3641.4	3732.2	3955.3	4029.7
30°	5718.7	5751.4	5517.0	5159.0	4738.0	4213.7	3911.2	3920.0	4110.3	4177.1
32.5°	6563.2	6619.9	6337.5	5883.8	5309.0	4671.2	4251.5	4182.2	4335.9	4391.4
35°	7400.1	7464.4	7229.9	6728.3	6066.5	5210.7	4606.9	4483.4	4635.9	4696.4
37.5°	8123.6	8209.3	8088.3	7652.2	6877.0	5861.1	5070.8	4837.6	5005.2	5080.9
40°	8694.6	8825.7	8816.8	8544.6	7832.4	6650.1	5659.4	5275.0	5464.0	5546.0
42.5°	9158.4	9271.9	9370.2	9356.3	8829.4	7546.3	6351.4	5843.4	5987.1	6081.7
45°	9478.6	9599.6	9811.3	10039.5	9788.6	8505.5	7144.2	6517.8	6648.9	6791.3
47.5°	9764.7	9902.1	10176.9	10538.6	10602.9	9468.5	8012.7	7303.0	7422.8	7570.2
50°	9789.9	9908.4	10334.4	10847.4	11181.4	10393.7	8945.4	8184.1	8296.3	8453.8
52.5°	9181.1	9367.6	10111.3	10838.6	11447.4	11167.6	9871.8	9100.4	9226.5	9415.5
55°	7126.6	7400.1	9457.1	10500.8	11352.9	11668.0	10752.9	10074.8	10236.1	10434.0
57.5°	6138.4	6258.1	7507.2	9885.7	10921.8	11797.8	11496.5	11059.2	11318.8	11535.6
60°	5517.0	5616.6	6355.2	8929.0	10354.6	11592.3	12071.3	11976.8	12425.5	12683.9
62.5°	4851.5	4946.0	5617.8	7455.5	9628.6	11250.8	12434.3	12823.8	13559.9	13842.2
65°	4191.0	4271.7	4915.7	6264.4	8705.9	10909.2	12622.1	13556.1	14609.8	14902.3
67.5°	3454.9	3521.7	4130.5	5285.1	7584.1	10441.5	12715.4	14132.1	15523.7	15774.5
70°	2493.2	2544.8	3173.8	4179.6	6176.2	9637.4	12677.6	14540.5	15997.6	16198.0
72.5°	1178.5	1225.2	1963.8	2713.7	4362.4	8071.9	11912.5	14216.6	15516.1	15416.5
75°	629.0	669.3	1128.1	1488.6	2304.1	5533.4	9748.3	12246.5	13029.2	12545.2
77.5°	426.0	457.5	698.3	893.7	1052.5	2626.8	6265.7	8479.0	8157.6	7358.5
80°	337.8	370.6	572.2	605.0	509.2	949.1	2589.0	3925.0	2819.6	2254.9
82.5°	259.7	296.2	481.5	438.6	277.3	389.5	753.7	1241.5	722.2	549.6
85°	158.8	197.9	378.1	279.8	156.3	177.7	255.9	345.4	220.6	184.0
87.5°	80.7	113.4	191.6	102.1	70.6	41.6	68.1	68.1	58.0	50.4
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°
3433.5	0°	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5
3415.8	2.5°	3446.1	3471.3	3514.1	3554.5	3586.0	3616.2	3646.5	3662.9	3667.9	3688.1
3434.7	5°	3486.4	3533.0	3616.2	3694.4	3743.5	3773.8	3795.2	3807.8	3810.3	3816.6
3486.4	7.5°	3560.8	3635.1	3751.1	3829.2	3865.8	3863.3	3854.4	3822.9	3810.3	3799.0
3562.0	10°	3665.4	3763.7	3906.1	3960.3	3937.6	3877.1	3799.0	3707.0	3664.1	3622.5
3665.4	12.5°	3795.2	3920.0	4059.9	4057.4	3945.2	3790.2	3608.7	3467.5	3378.0	3313.7
3792.7	15°	3952.8	4096.5	4203.6	4117.9	3872.1	3593.5	3327.6	3143.6	3062.9	2992.3
3921.3	17.5°	4115.4	4269.1	4318.3	4099.0	3688.1	3302.4	3001.1	2856.2	2776.8	2739.0
4059.9	20°	4274.2	4426.7	4386.4	3990.6	3408.3	2972.1	2703.7	2624.3	2607.9	2616.7
4194.8	22.5°	4441.8	4577.9	4400.2	3781.3	3051.5	2634.3	2486.9	2489.4	2525.9	2552.4
4335.9	25°	4613.2	4705.3	4363.7	3478.8	2668.4	2386.0	2349.5	2389.8	2461.7	2513.3
4494.8	27.5°	4778.4	4818.7	4284.3	3104.5	2339.4	2208.3	2214.6	2297.8	2406.2	2478.0
4687.6	30°	4964.9	4919.5	4131.7	2683.5	2111.2	2055.8	2108.7	2205.8	2314.2	2378.5
4930.9	32.5°	5175.4	5006.5	3889.7	2294.0	1949.9	1933.5	2020.5	2083.5	2131.4	2150.3
5253.5	35°	5437.6	5128.8	3579.7	2020.5	1805.0	1844.0	1927.2	1895.7	1876.8	1866.7
5687.1	37.5°	5777.9	5293.9	3216.7	1842.8	1687.7	1779.8	1813.8	1715.5	1641.1	1604.5
6212.7	40°	6187.5	5535.9	2867.5	1705.4	1613.4	1724.3	1665.1	1546.6	1452.0	1400.4
6803.9	42.5°	6642.6	5789.2	2573.8	1602.0	1571.8	1678.9	1555.4	1414.2	1261.7	1245.3
7508.5	45°	7120.3	6050.1	2373.4	1522.6	1551.6	1639.8	1492.4	1264.2	1155.8	1222.6
8215.6	47.5°	7598.0	6289.6	2252.4	1463.4	1541.5	1595.7	1436.9	1181.0	1104.2	1201.2
8973.1	50°	8129.9	6503.9	2198.2	1420.5	1530.2	1578.1	1353.7	1159.6	1050.0	1114.2
9757.1	52.5°	8658.0	6670.3	2157.9	1377.7	1513.8	1564.2	1313.4	1134.4	984.4	988.2
10546.2	55°	9184.9	6778.7	2113.8	1320.9	1477.2	1534.0	1309.6	1106.7	935.3	917.6
11380.6	57.5°	9747.0	6840.4	2059.6	1257.9	1414.2	1457.1	1305.8	1085.2	920.1	891.1
12233.9	60°	10319.3	6931.2	1989.0	1181.0	1329.8	1365.1	1297.0	1077.7	911.3	862.1
13038.1	62.5°	10832.3	6962.7	1904.5	1107.9	1221.4	1274.3	1278.1	1071.4	887.4	802.9
13706.1	65°	11168.8	6826.6	1757.1	1024.7	1104.2	1181.0	1241.5	1050.0	844.5	760.0
14036.3	67.5°	11155.0	6438.4	1526.4	917.6	990.7	1077.7	1188.6	1013.4	792.8	707.1
13786.8	70°	10635.7	5672.0	1234.0	792.8	865.9	966.8	1120.5	959.2	731.1	649.1
12259.1	72.5°	9121.9	4439.3	896.2	646.6	721.0	852.1	1032.3	893.7	668.0	597.5
9060.1	75°	6516.5	2809.5	607.5	496.6	560.9	722.2	922.6	816.8	610.1	600.0
4537.6	77.5°	3328.8	1342.4	402.1	363.0	390.7	569.7	775.2	729.8	618.9	495.4
1290.7	80°	1082.7	495.4	253.3	247.0	259.7	379.4	600.0	598.7	468.9	336.5
312.6	82.5°	345.4	213.0	165.1	158.8	152.5	238.2	418.5	473.9	316.4	213.0
112.2	85°	137.4	127.3	97.1	89.5	64.3	112.2	219.3	315.1	235.7	153.8
29.0	87.5°	50.4	50.4	26.5	18.9	13.9	37.8	59.2	94.5	134.9	79.4
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>
3433.5
3699.4
3826.7
3801.5
3609.9
3298.6
2984.7
2750.3
2612.9
2558.7
2527.2
2495.7
2393.6
2160.4
1876.8
1613.4
1404.1
1261.7
1257.9
1246.6
1162.1
1014.7
930.2
894.9
865.9
802.9
760.0
710.9
656.7
593.7
565.9
441.2
297.5
211.8
157.6
78.1
0.0

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