

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: P949720

Luminaire Tested: **GALN-SB4B-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949720
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-SB4B-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22161 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

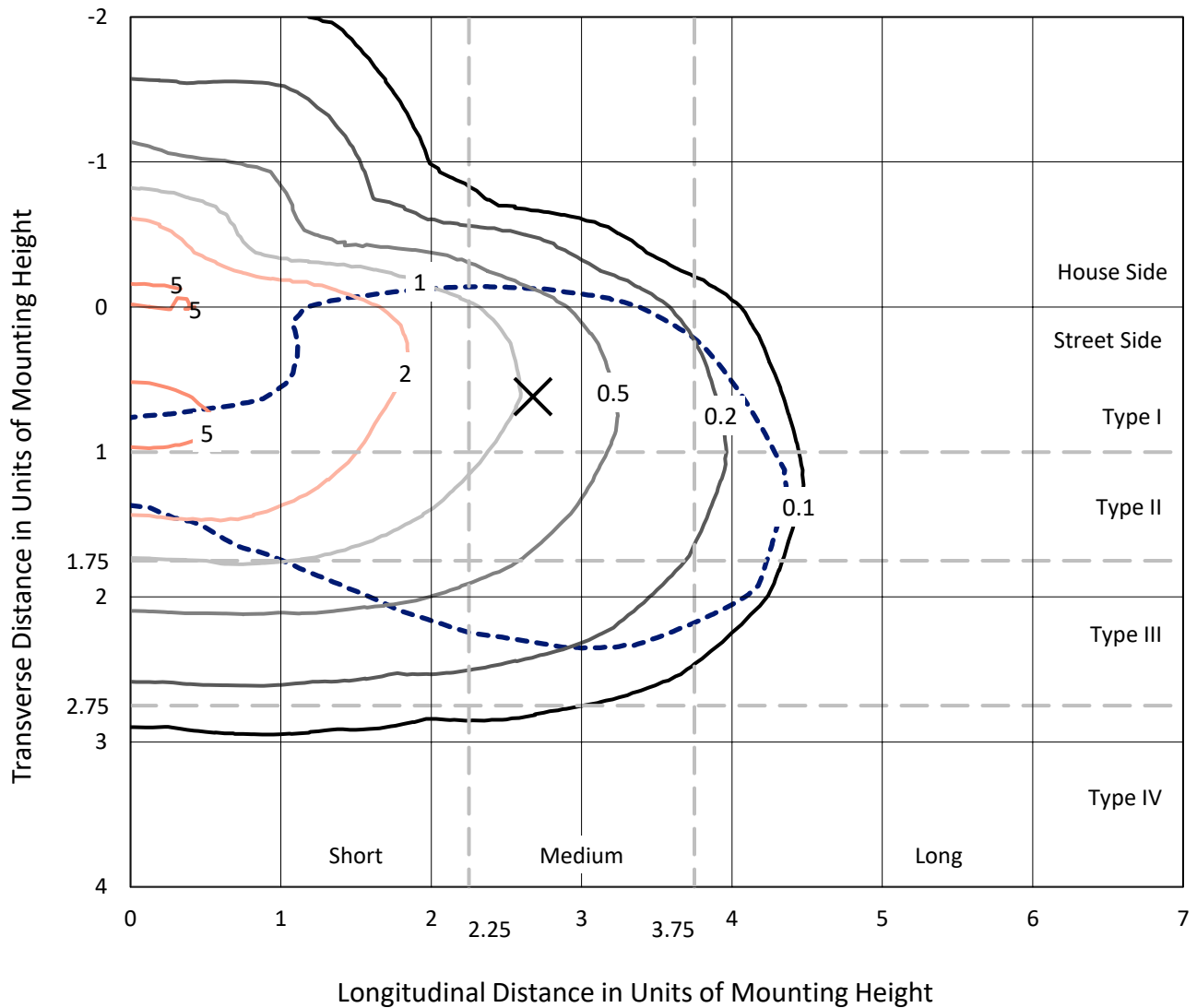
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

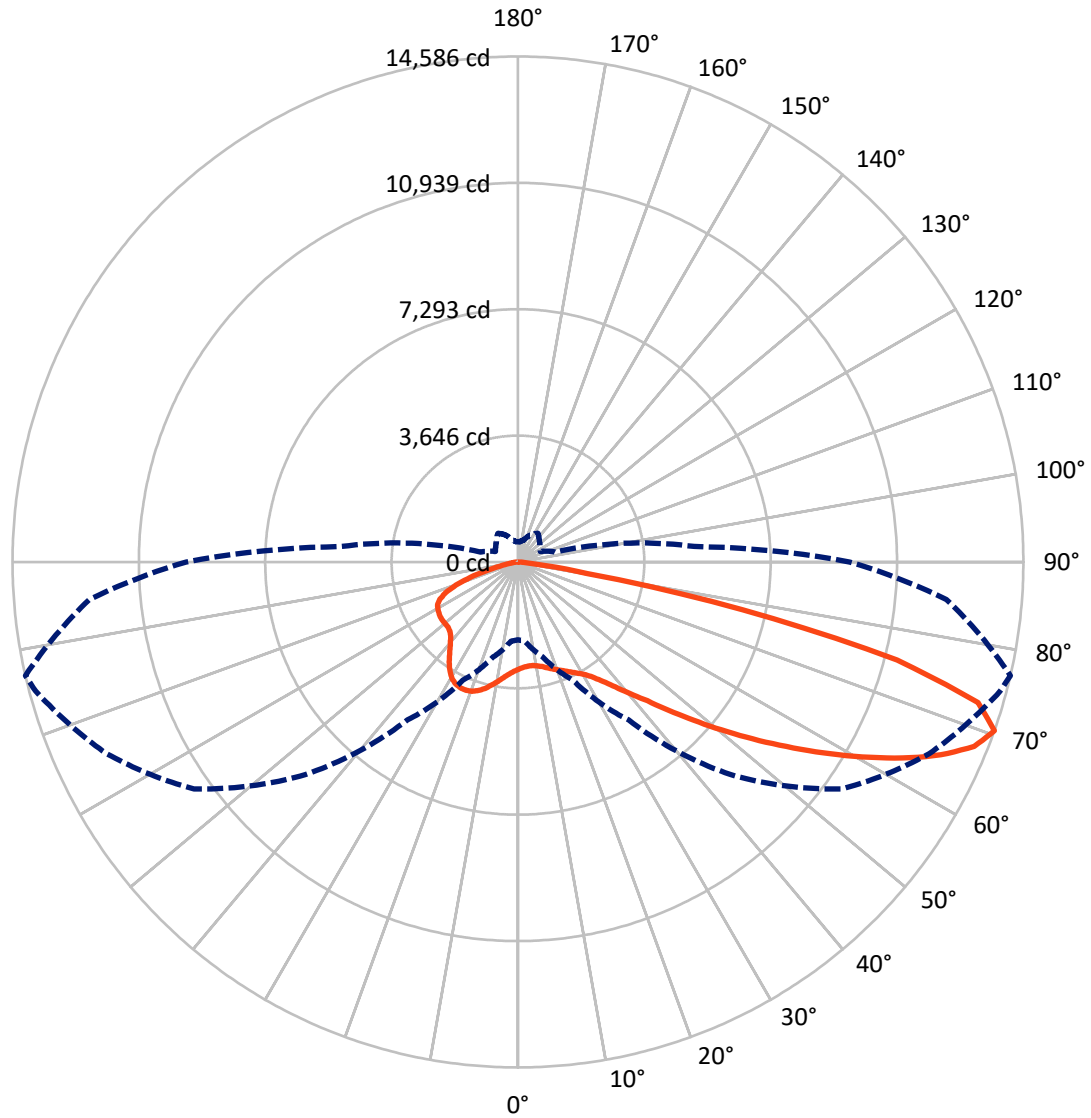
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	4852.9	0.0	4852.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17308.1	0.0	17308.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	22161.0	0.0	22161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.3
10°-20°	851.0	3.8
20°-30°	1455.3	6.6
30°-40°	2340.3	10.6
40°-50°	3653.8	16.5
50°-60°	4880.7	22.0
60°-70°	5202.0	23.5
70°-80°	3202.3	14.5
80°-90°	280.6	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°	22161.0	100.0
0°-180°	22161.0	100.0

Coefficient of Utilization



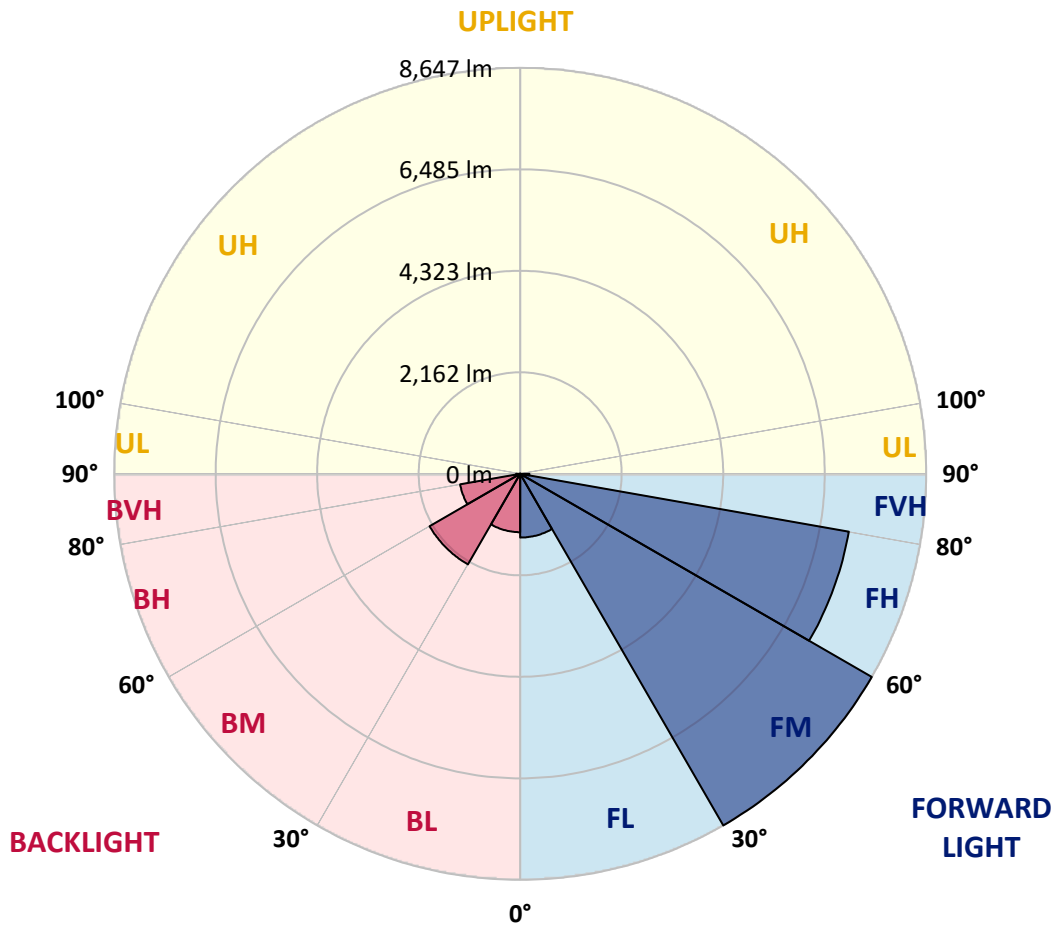
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.7	6.1			
FM (30°-60°)	8646.7	39.0			
FH (60°-80°)	7107.4	32.1			G3/7500
FVH (80°-90°)	196.2	0.9			G2/225
BL (0°-30°)	1243.5	5.6	B3/2500		
BM (30°-60°)	2228.1	10.1	B2/2500		
BH (60°-80°)	1297.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	84.4	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7
2.5°	2849.9	2848.8	2863.5	2868.1	2895.3	2914.6	2950.9	2989.5	3039.5	3045.1
5°	2685.3	2685.3	2702.4	2720.5	2755.7	2794.3	2849.9	2916.9	3003.1	3016.8
7.5°	2545.7	2554.8	2569.6	2604.8	2645.6	2701.2	2786.4	2881.7	2995.2	3016.8
10°	2433.4	2443.6	2461.8	2490.1	2551.4	2628.6	2739.8	2862.4	3014.5	3048.5
12.5°	2398.2	2408.4	2418.6	2440.2	2496.9	2587.7	2720.5	2871.5	3061.0	3095.1
15°	2479.9	2492.4	2484.5	2478.8	2508.3	2591.1	2729.6	2904.4	3118.9	3167.7
17.5°	2668.3	2672.9	2654.7	2601.4	2596.8	2641.1	2772.7	2949.8	3191.5	3244.9
20°	2972.5	2964.5	2927.1	2821.5	2761.4	2752.3	2846.5	3017.9	3266.4	3323.2
22.5°	3385.6	3376.5	3301.6	3134.8	3000.9	2912.3	2953.2	3106.4	3350.4	3414.0
25°	3900.9	3888.4	3778.3	3551.3	3343.6	3124.6	3098.5	3223.3	3453.7	3512.7
27.5°	4502.4	4492.2	4373.0	4073.4	3773.8	3415.1	3278.9	3360.6	3561.5	3628.5
30°	5149.4	5178.9	4967.8	4645.4	4266.4	3794.2	3521.8	3529.8	3701.1	3761.3
32.5°	5909.8	5960.9	5706.6	5298.0	4780.5	4206.2	3828.3	3765.8	3904.3	3954.2
35°	6663.4	6721.3	6510.2	6058.5	5462.6	4692.0	4148.3	4037.1	4174.4	4228.9
37.5°	7314.9	7392.1	7283.1	6890.4	6192.4	5277.6	4566.0	4356.0	4507.0	4575.1
40°	7829.0	7947.1	7939.1	7694.0	7052.7	5988.1	5096.0	4749.9	4920.1	4993.9
42.5°	8246.7	8348.8	8437.4	8424.9	7950.5	6795.1	5719.1	5261.7	5391.1	5476.2
45°	8535.0	8643.9	8834.6	9040.0	8814.2	7658.8	6433.0	5868.9	5987.0	6115.2
47.5°	8792.6	8916.3	9163.8	9489.5	9547.4	8525.9	7215.0	6576.0	6683.8	6816.6
50°	8815.3	8922.0	9305.6	9767.6	10068.3	9359.0	8054.9	7369.4	7470.4	7612.3
52.5°	8267.1	8435.1	9104.7	9759.6	10307.8	10055.8	8889.1	8194.5	8308.0	8478.2
55°	6417.1	6663.4	8515.7	9455.4	10222.7	10506.4	9682.4	9071.8	9217.1	9395.3
57.5°	5527.3	5635.1	6759.9	8901.6	9834.5	10623.3	10352.1	9958.2	10192.0	10387.3
60°	4967.8	5057.4	5722.5	8040.1	9323.8	10438.3	10869.6	10784.5	11188.5	11421.2
62.5°	4368.5	4453.6	5058.6	6713.4	8670.0	10130.8	11196.5	11547.2	12210.0	12464.3
65°	3773.8	3846.4	4426.4	5640.8	7839.2	9823.2	11365.6	12206.6	13155.5	13418.8
67.5°	3111.0	3171.1	3719.3	4758.9	6829.1	9402.1	11449.6	12725.3	13978.3	14204.2
70°	2245.0	2291.5	2857.9	3763.6	5561.4	8678.0	11415.5	13093.0	14405.1	14585.5
72.5°	1061.2	1103.2	1768.3	2443.6	3928.1	7268.4	10726.6	12801.3	13971.5	13881.8
75°	566.4	602.7	1015.8	1340.4	2074.7	4982.5	8777.9	11027.4	11732.2	11296.4
77.5°	383.6	412.0	628.8	804.7	947.7	2365.3	5641.9	7635.0	7345.5	6626.0
80°	304.2	333.7	515.3	544.8	458.5	854.6	2331.2	3534.3	2538.9	2030.5
82.5°	233.8	266.7	433.6	395.0	249.7	350.7	678.7	1117.9	650.3	494.8
85°	143.0	178.2	340.5	252.0	140.7	160.0	230.4	311.0	198.6	165.7
87.5°	72.6	102.1	172.5	91.9	63.6	37.5	61.3	61.3	52.2	45.4
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°
3091.7	0°	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7
3075.8	2.5°	3103.0	3125.7	3164.3	3200.6	3229.0	3256.2	3283.5	3298.2	3302.8	3320.9
3092.8	5°	3139.3	3181.3	3256.2	3326.6	3370.9	3398.1	3417.4	3428.7	3431.0	3436.7
3139.3	7.5°	3206.3	3273.3	3377.7	3448.0	3481.0	3478.7	3470.7	3442.4	3431.0	3420.8
3207.4	10°	3300.5	3389.0	3517.3	3566.1	3545.7	3491.2	3420.8	3338.0	3299.4	3261.9
3300.5	12.5°	3417.4	3529.8	3655.7	3653.5	3552.5	3412.9	3249.4	3122.3	3041.7	2983.8
3415.1	15°	3559.3	3688.7	3785.1	3708.0	3486.6	3235.8	2996.3	2830.6	2758.0	2694.4
3530.9	17.5°	3705.7	3844.1	3888.4	3690.9	3320.9	2973.6	2702.4	2571.8	2500.3	2466.3
3655.7	20°	3848.7	3986.0	3949.7	3593.3	3069.0	2676.3	2434.5	2363.0	2348.3	2356.2
3777.2	22.5°	3999.6	4122.2	3962.2	3404.9	2747.8	2372.1	2239.3	2241.6	2274.5	2298.3
3904.3	25°	4154.0	4236.8	3929.3	3132.5	2402.7	2148.5	2115.6	2151.9	2216.6	2263.1
4047.3	27.5°	4302.7	4339.0	3857.8	2795.4	2106.5	1988.5	1994.1	2069.1	2166.7	2231.4
4221.0	30°	4470.7	4429.8	3720.4	2416.4	1901.1	1851.1	1898.8	1986.2	2083.8	2141.7
4440.0	32.5°	4660.2	4508.1	3502.5	2065.6	1755.8	1741.0	1819.4	1876.1	1919.2	1936.3
4730.6	35°	4896.3	4618.2	3223.3	1819.4	1625.3	1660.5	1735.4	1707.0	1690.0	1680.9
5121.0	37.5°	5202.7	4766.9	2896.4	1659.3	1519.7	1602.6	1633.2	1544.7	1477.7	1444.8
5594.3	40°	5571.6	4984.8	2582.1	1535.6	1452.8	1552.6	1499.3	1392.6	1307.5	1261.0
6126.6	42.5°	5981.3	5212.9	2317.6	1442.5	1415.3	1511.8	1400.6	1273.4	1136.1	1121.4
6761.0	45°	6411.5	5447.9	2137.2	1371.0	1397.1	1476.6	1343.8	1138.4	1040.8	1100.9
7397.7	47.5°	6841.6	5663.5	2028.2	1317.7	1388.1	1436.9	1293.9	1063.5	994.2	1081.6
8079.9	50°	7320.6	5856.5	1979.4	1279.1	1377.9	1421.0	1219.0	1044.2	945.4	1003.3
8785.8	52.5°	7796.1	6006.3	1943.1	1240.5	1363.1	1408.5	1182.6	1021.5	886.4	889.8
9496.3	55°	8270.5	6103.9	1903.3	1189.4	1330.2	1381.3	1179.2	996.5	842.1	826.3
10247.7	57.5°	8776.7	6159.5	1854.5	1132.7	1273.4	1312.0	1175.8	977.2	828.5	802.4
11016.0	60°	9292.0	6241.2	1791.0	1063.5	1197.4	1229.2	1167.9	970.4	820.6	776.3
11740.1	62.5°	9753.9	6269.6	1714.9	997.6	1099.8	1147.5	1150.9	964.7	799.0	723.0
12341.7	65°	10057.0	6147.0	1582.1	922.7	994.2	1063.5	1117.9	945.4	760.4	684.4
12639.0	67.5°	10044.5	5797.4	1374.5	826.3	892.1	970.4	1070.3	912.5	713.9	636.7
12414.3	70°	9576.9	5107.4	1111.1	713.9	779.7	870.5	1009.0	863.7	658.3	584.5
11038.7	72.5°	8213.8	3997.4	807.0	582.2	649.2	767.2	929.5	804.7	601.5	538.0
8158.2	75°	5867.8	2529.9	547.1	447.2	505.1	650.3	830.8	735.5	549.3	540.2
4085.9	77.5°	2997.5	1208.7	362.1	326.9	351.8	513.0	698.0	657.1	557.3	446.0
1162.2	80°	974.9	446.0	228.1	222.5	233.8	341.6	540.2	539.1	422.2	303.0
281.5	82.5°	311.0	191.8	148.7	143.0	137.3	214.5	376.8	426.7	284.9	191.8
101.0	85°	123.7	114.6	87.4	80.6	57.9	101.0	197.5	283.7	212.2	138.5
26.1	87.5°	45.4	45.4	23.8	17.0	12.5	34.0	53.3	85.1	121.4	71.5
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>
3091.7
3331.1
3445.8
3423.1
3250.6
2970.2
2687.6
2476.5
2352.8
2304.0
2275.6
2247.2
2155.3
1945.3
1690.0
1452.8
1264.4
1136.1
1132.7
1122.5
1046.4
913.7
837.6
805.8
779.7
723.0
684.4
640.1
591.3
534.6
509.6
397.2
267.9
190.7
141.9
70.4
0.0

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