

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: P943117

Luminaire Tested: **GALN-SB7B-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943117  
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-SB7B-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

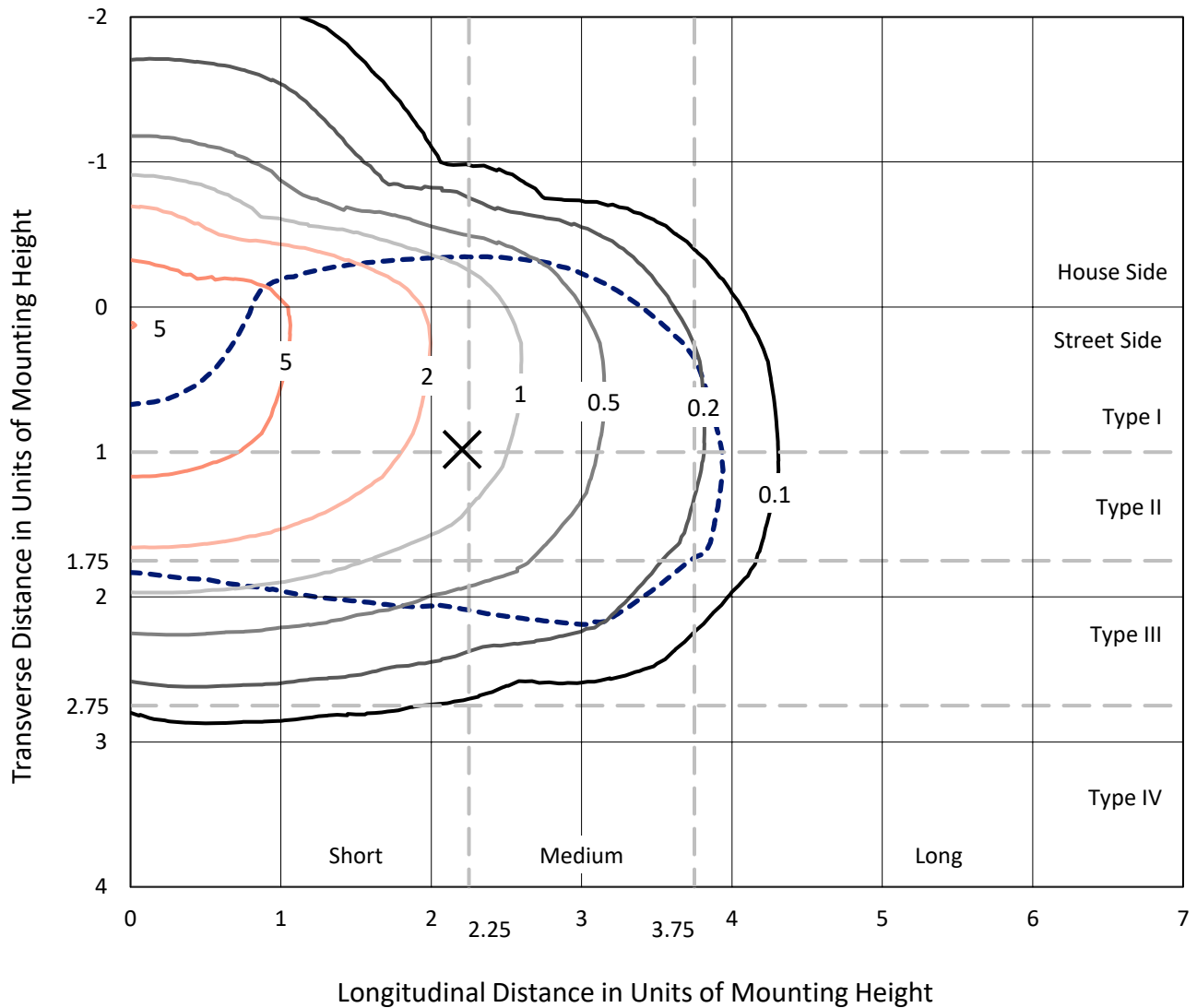
Lumens per Lamp: N/A  
Luminaire Lumens: 29039 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

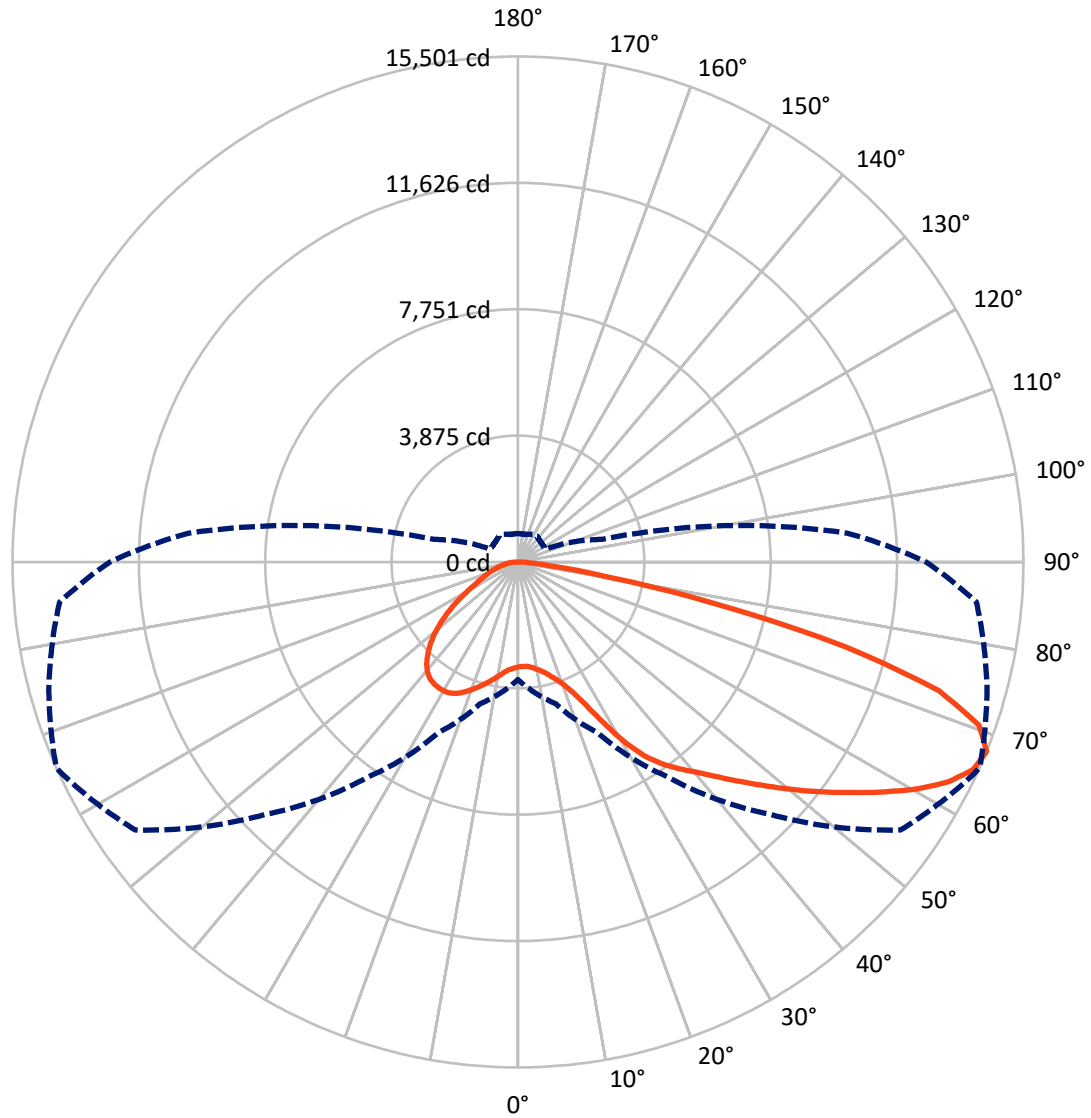
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	7220.5	0.0	7220.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	21818.5	0.0	21818.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	29039.0	0.0	29039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.3	1.1
10°-20°	1055.0	3.6
20°-30°	2033.5	7.0
30°-40°	3565.5	12.3
40°-50°	5300.7	18.3
50°-60°	6719.2	23.1
60°-70°	6574.5	22.6
70°-80°	3136.1	10.8
80°-90°	335.2	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°	29039.0	100.0
0°-180°	29039.0	100.0

**Coefficient of Utilization**



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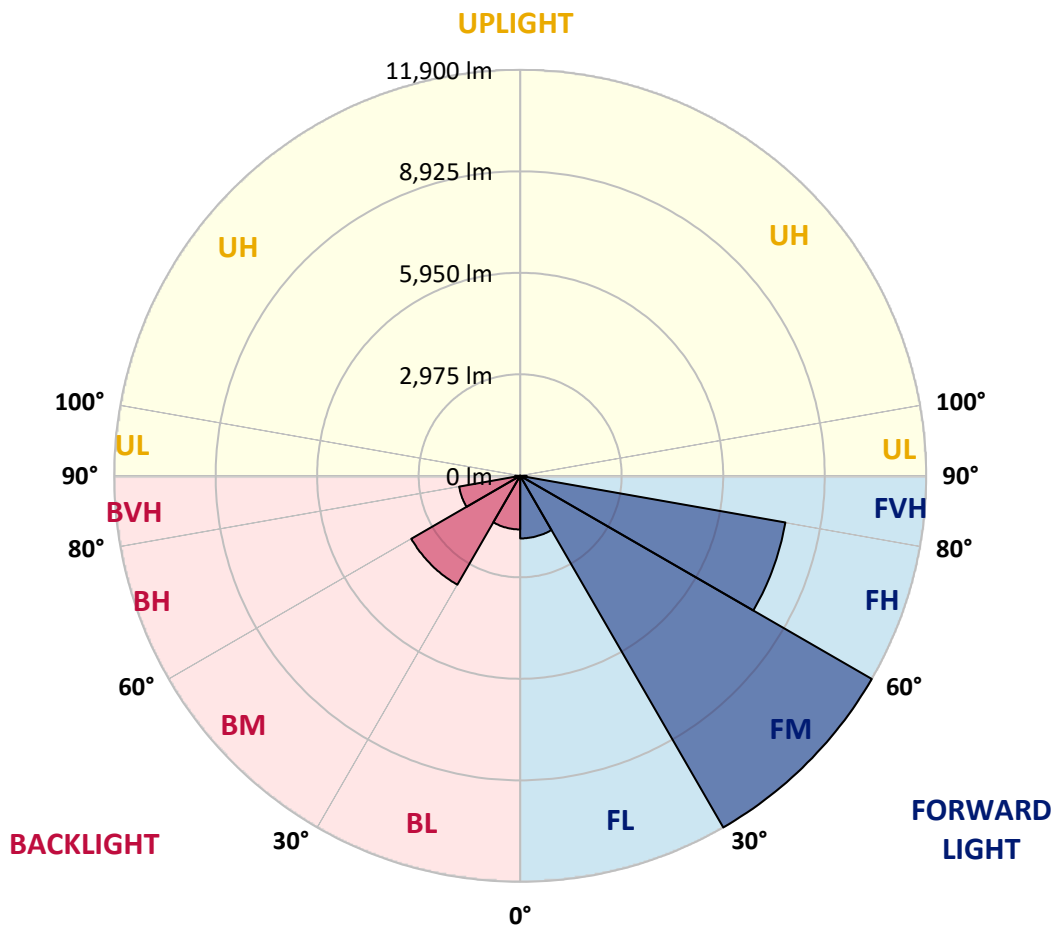
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.0	6.3			
FM (30°-60°)	11899.9	41.0			
FH (60°-80°)	7893.6	27.2			G4/12000
FVH (80°-90°)	190.0	0.7			G2/225
BL (0°-30°)	1572.9	5.4	B3/2500		
BM (30°-60°)	3685.4	12.7	B3/5000		
BH (60°-80°)	1817.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	145.1	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°	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8
2.5°	3187.2	3205.6	3201.0	3193.3	3191.8	3194.9	3199.4	3204.0	3202.5	3210.1
5°	3178.1	3196.4	3194.9	3194.9	3201.0	3213.2	3220.8	3228.4	3220.8	3230.0
7.5°	3184.2	3197.9	3204.0	3210.1	3225.4	3248.3	3266.6	3283.4	3274.2	3284.9
10°	3262.0	3272.7	3278.8	3278.8	3289.5	3315.4	3333.7	3364.2	3356.6	3373.4
12.5°	3403.9	3414.6	3414.6	3408.5	3416.1	3432.9	3439.0	3472.6	3458.8	3486.3
15°	3577.8	3599.2	3582.4	3571.7	3574.8	3591.6	3590.0	3616.0	3602.2	3625.1
17.5°	3770.1	3797.5	3770.1	3768.5	3762.4	3780.8	3782.3	3805.2	3780.8	3797.5
20°	3997.4	4035.5	4012.7	4020.3	4006.6	4014.2	4021.8	4055.4	4017.2	4029.4
22.5°	4317.8	4363.6	4339.2	4368.2	4359.0	4352.9	4351.4	4410.9	4351.4	4355.9
25°	4784.7	4839.6	4796.9	4836.6	4836.6	4856.4	4879.3	4955.6	4856.4	4827.4
27.5°	5474.3	5529.2	5445.3	5469.7	5462.1	5510.9	5486.5	5675.7	5568.9	5521.6
30°	6304.3	6401.9	6243.3	6237.2	6229.5	6307.4	6342.4	6467.6	6359.2	6311.9
32.5°	7201.4	7303.7	7114.5	7059.5	7030.5	7077.8	7048.9	7149.6	7074.8	7001.6
35°	8150.4	8251.1	8071.1	7964.3	7848.3	7749.2	7645.4	7671.4	7601.2	7489.8
37.5°	9047.6	9232.2	9041.5	8927.0	8713.4	8519.7	8229.8	8109.2	8043.6	7941.4
40°	9961.5	10066.7	9921.8	9824.2	9592.2	9288.6	8824.8	8570.0	8481.5	8382.3
42.5°	10634.3	10735.0	10657.2	10590.1	10408.5	10056.1	9456.5	9137.6	9009.4	8898.0
45°	11168.3	11243.1	11194.3	11218.7	11140.9	10799.1	10111.0	9746.3	9613.6	9477.8
47.5°	11383.4	11462.8	11540.6	11685.5	11818.3	11566.5	10814.4	10405.5	10265.1	10126.2
50°	11359.0	11439.9	11665.7	11973.9	12385.8	12301.9	11555.9	11107.3	10977.6	10818.9
52.5°	11163.7	11255.3	11545.2	12057.8	12713.9	12852.7	12311.1	11832.0	11710.0	11520.8
55°	10651.1	10706.0	11140.9	11867.1	12791.7	13237.2	13051.1	12604.0	12482.0	12218.0
57.5°	9700.6	9779.9	10413.1	11352.9	12596.4	13498.1	13701.0	13415.7	13298.2	12918.3
60°	8460.2	8586.8	9311.5	10489.4	12099.0	13496.6	14291.5	14213.7	14116.0	13608.0
62.5°	7056.5	7203.0	7900.2	9268.8	11229.3	13113.6	14660.7	14881.9	14831.6	14244.2
65°	5419.4	5520.1	6214.3	7689.7	9876.0	12291.3	14703.4	15338.1	15347.3	14727.8
67.5°	3608.3	3898.2	4500.9	5770.3	8063.5	10947.1	14328.1	15412.9	15501.4	14894.1
70°	1760.7	2142.1	2732.6	3750.2	5770.3	8885.8	13347.1	14799.5	14996.4	14409.0
72.5°	730.8	854.4	1176.3	1850.7	3312.4	5996.1	11375.8	13136.5	13501.2	12767.3
75°	492.8	534.0	672.8	949.0	1508.9	2956.9	8203.8	9795.2	10382.6	9642.6
77.5°	379.9	405.8	489.8	663.7	897.1	1118.4	4391.0	5903.0	6206.7	5745.9
80°	299.0	318.9	366.2	483.7	636.2	598.1	1496.7	2674.6	2850.1	2390.8
82.5°	259.4	267.0	262.4	328.0	422.6	349.4	491.3	987.1	1089.4	790.3
85°	187.7	209.0	218.2	202.9	224.3	177.0	201.4	349.4	384.5	343.3
87.5°	76.3	112.9	138.8	131.2	82.4	50.3	62.6	102.2	117.5	128.2
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°
3220.8	0°	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8	3220.8
3222.3	2.5°	3223.9	3234.5	3242.2	3251.3	3257.4	3266.6	3284.9	3295.6	3297.1	3304.7
3246.7	5°	3252.8	3268.1	3284.9	3309.3	3336.8	3359.6	3394.7	3419.2	3428.3	3435.9
3306.2	7.5°	3315.4	3336.8	3367.3	3410.0	3449.7	3480.2	3522.9	3551.9	3580.9	3591.6
3400.8	10°	3408.5	3439.0	3483.2	3541.2	3583.9	3623.6	3667.8	3692.3	3721.2	3733.5
3513.7	12.5°	3524.4	3556.5	3614.4	3695.3	3735.0	3762.4	3777.7	3771.6	3777.7	3788.4
3649.5	15°	3657.2	3692.3	3757.9	3844.8	3872.3	3847.9	3814.3	3783.8	3779.2	3782.3
3814.3	17.5°	3814.3	3840.3	3916.5	3989.8	3969.9	3869.2	3796.0	3747.2	3722.8	3715.1
4024.9	20°	4034.0	4034.0	4096.6	4142.3	4009.6	3838.7	3724.3	3645.0	3594.6	3573.3
4311.7	22.5°	4301.0	4276.6	4316.3	4284.2	4002.0	3753.3	3594.6	3457.3	3381.0	3350.5
4713.0	25°	4639.7	4610.7	4600.1	4401.7	3947.1	3617.5	3359.6	3193.3	3126.2	3109.4
5291.2	27.5°	5150.9	5077.6	4938.8	4465.8	3846.4	3403.9	3085.0	2930.9	2892.8	2894.3
6034.2	30°	5831.3	5684.9	5344.6	4476.5	3681.6	3101.8	2804.3	2694.4	2676.1	2683.8
6658.3	32.5°	6461.5	6322.6	5759.6	4427.7	3428.3	2805.8	2552.5	2479.3	2451.8	2461.0
7134.3	35°	6955.8	6917.6	6144.1	4359.0	3117.1	2528.1	2326.7	2264.2	2210.8	2198.6
7582.9	37.5°	7422.7	7407.4	6432.5	4262.9	2808.9	2331.3	2145.2	2062.8	1985.0	1942.2
8078.7	40°	7935.3	7920.0	6621.7	4114.9	2535.8	2160.4	1981.9	1873.6	1777.5	1699.7
8640.2	42.5°	8512.0	8422.0	6711.7	3902.8	2303.8	2015.5	1849.2	1702.7	1576.1	1504.4
9274.9	45°	9142.2	8939.2	6710.1	3632.8	2108.6	1882.7	1707.3	1499.8	1382.3	1315.2
9926.4	47.5°	9810.4	9433.6	6627.8	3333.7	1919.4	1736.3	1487.6	1328.9	1251.1	1209.9
10634.3	50°	10500.1	9895.9	6487.4	2990.4	1725.6	1570.0	1350.3	1241.9	1182.4	1144.3
11336.1	52.5°	11148.5	10315.4	6318.0	2601.4	1528.8	1408.2	1289.2	1205.3	1142.8	1100.0
12016.6	55°	11751.1	10677.0	6078.5	2203.1	1368.6	1299.9	1260.3	1190.1	1118.4	1068.0
12707.8	57.5°	12286.7	10912.0	5665.0	1829.3	1254.1	1225.2	1229.7	1164.1	1081.7	1039.0
13388.3	60°	12732.2	11084.4	5053.2	1483.0	1161.1	1151.9	1182.4	1115.3	1019.2	970.4
13963.4	62.5°	12999.2	11081.4	4302.5	1214.5	1081.7	1084.8	1119.9	1054.3	956.6	910.9
14264.0	65°	12976.3	10809.8	3478.7	1039.0	1005.5	1008.5	1054.3	987.1	904.8	877.3
14113.0	67.5°	12517.1	10147.6	2668.5	924.6	921.5	935.3	988.7	941.4	872.7	869.7
13212.8	70°	11273.6	8772.9	1922.4	833.0	834.6	854.4	924.6	912.4	855.9	862.0
11108.8	72.5°	9039.9	6688.8	1290.8	736.9	738.5	770.5	863.6	889.5	839.1	920.0
7881.9	75°	6020.5	4171.3	830.0	634.7	636.2	677.4	810.2	845.3	793.4	917.0
4101.2	77.5°	2892.8	1875.1	601.1	534.0	534.0	572.1	700.3	756.8	675.9	712.5
1318.2	80°	999.4	704.9	473.0	430.3	421.1	447.0	590.5	656.1	582.8	537.1
430.3	82.5°	393.6	366.2	379.9	334.1	303.6	320.4	459.2	541.6	428.7	387.5
242.6	85°	225.8	238.0	268.5	221.2	175.5	196.8	337.2	389.1	323.5	285.3
79.3	87.5°	61.0	83.9	123.6	114.4	79.3	83.9	160.2	215.1	186.1	143.4
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>
3220.8
3303.2
3434.4
3593.1
3739.6
3791.4
3793.0
3725.8
3568.7
3345.9
3112.5
2898.9
2709.7
2473.2
2207.7
1943.8
1707.3
1508.9
1312.1
1200.7
1130.6
1081.7
1048.2
1011.6
949.0
897.1
875.8
874.2
860.5
932.2
924.6
653.0
503.5
386.0
291.4
148.0
0.0

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