

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: P941975

Luminaire Tested: **GALN-SB5D-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50933 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

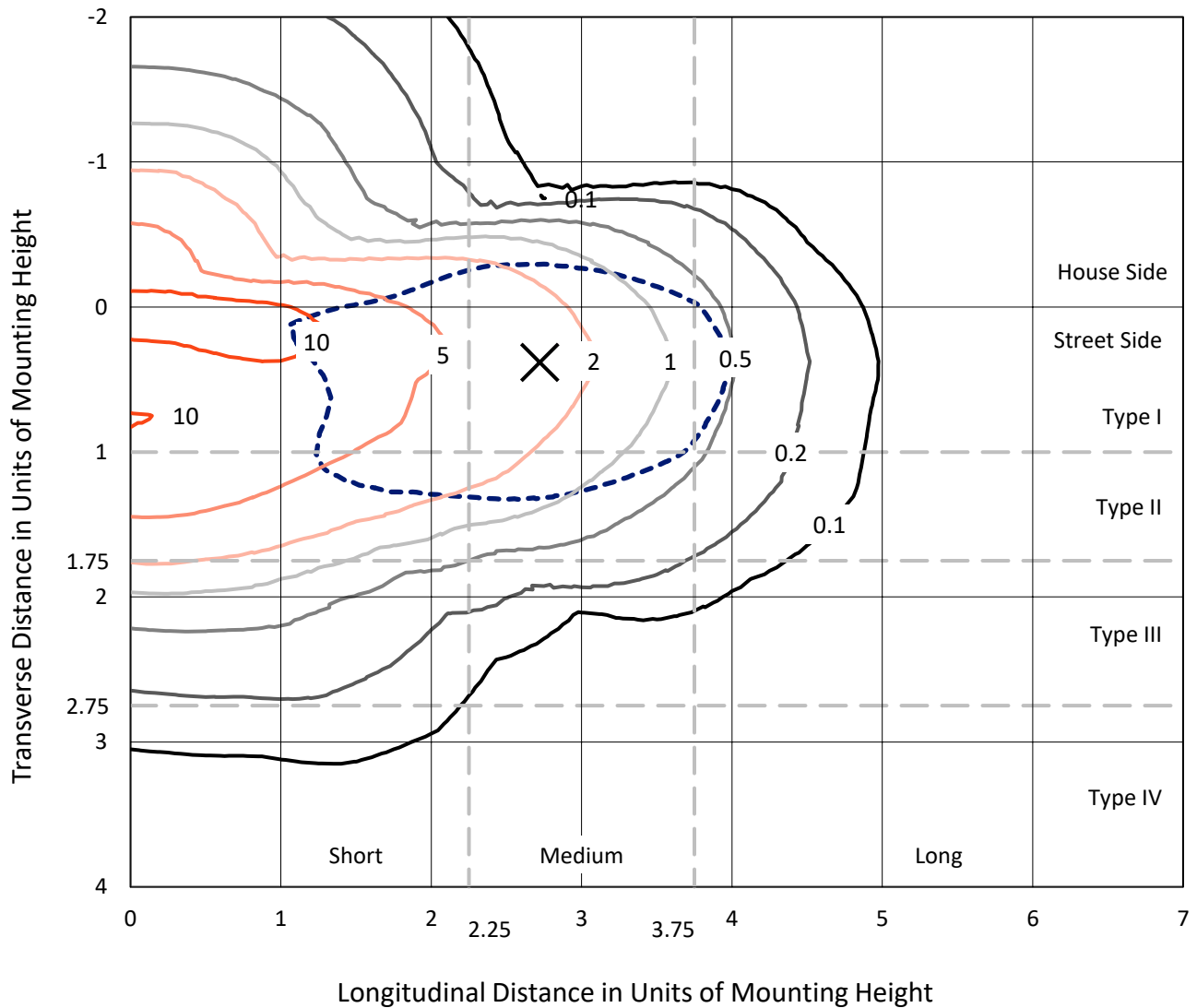
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P941975  
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### Iso-Footcandle Lines of Horizontal Illumination

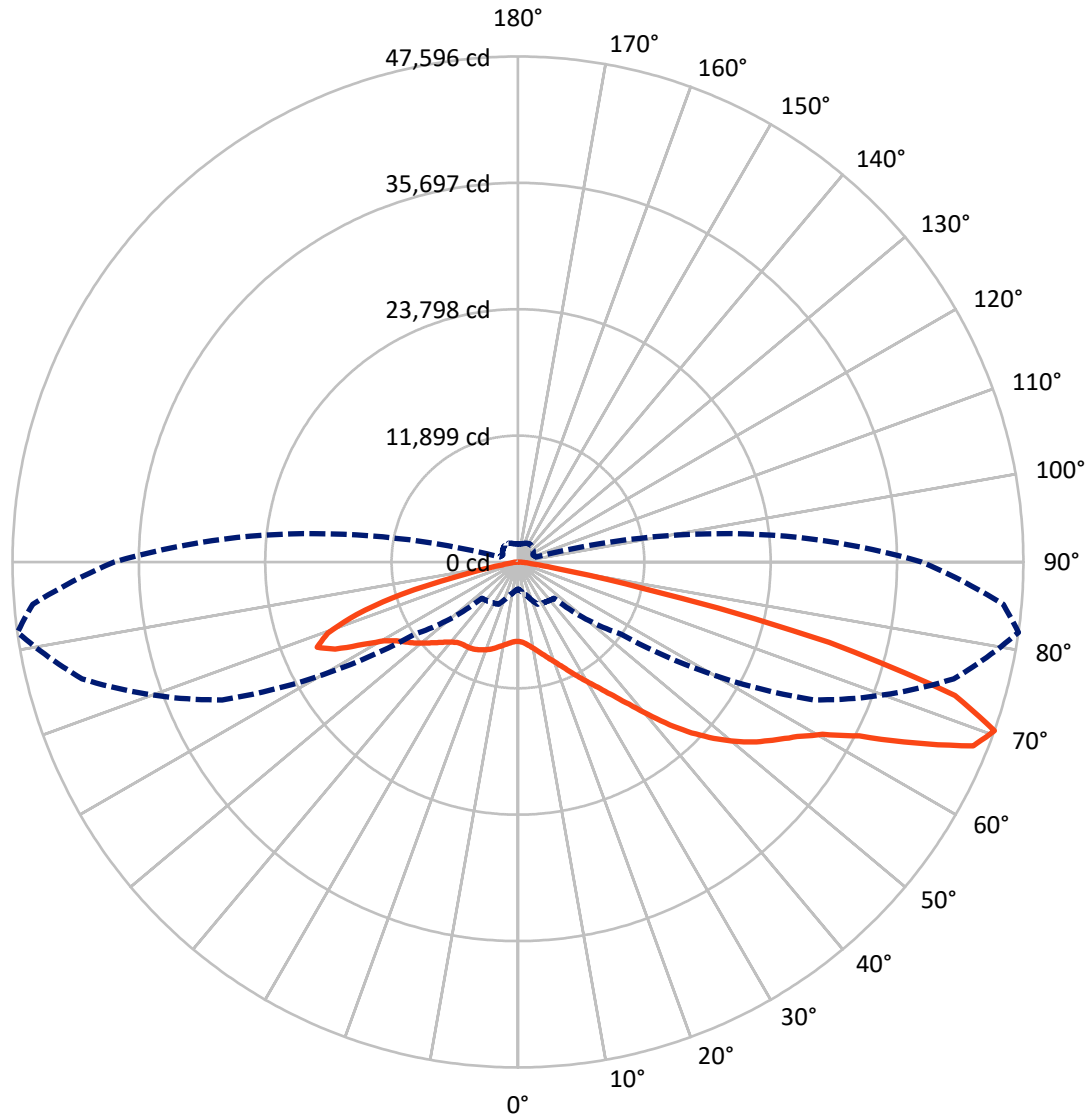
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P941975  
CATALOG NUMBER: GALN-SB5D-735-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12556.2	0.0	12556.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	38376.8	0.0	38376.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	50933.0	0.0	50933.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.1	1.4
10°-20°	2025.7	4.0
20°-30°	3388.7	6.7
30°-40°	5294.1	10.4
40°-50°	8431.4	16.6
50°-60°	11733.4	23.0
60°-70°	12273.6	24.1
70°-80°	6414.9	12.6
80°-90°	666.1	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°	50933.0	100.0
0°-180°	50933.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941975

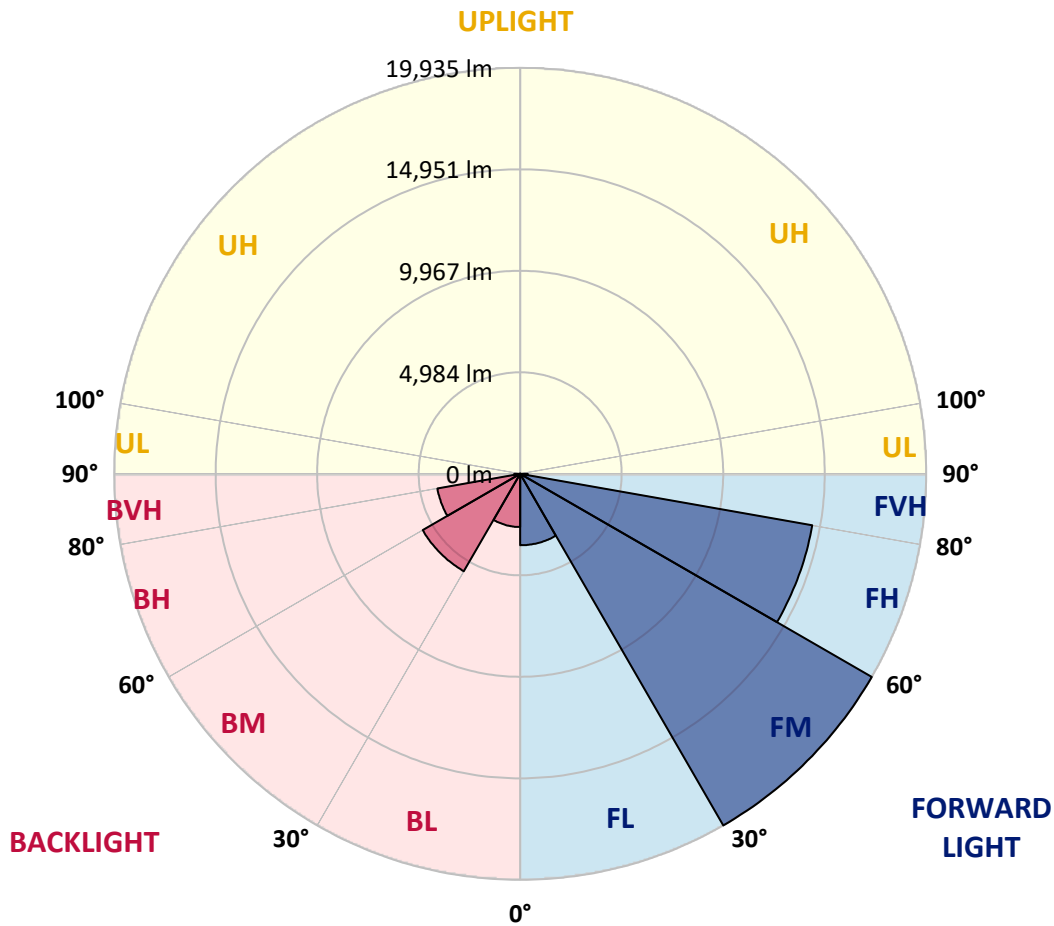
CATALOG NUMBER: GALN-SB5D-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.3	6.9			
FM (30°-60°)	19934.7	39.1			
FH (60°-80°)	14561.9	28.6			G5
FVH (80°-90°)	372.9	0.7			G3/500
BL (0°-30°)	2612.2	5.1	B4/5000		
BM (30°-60°)	5524.2	10.8	B4/8500		
BH (60°-80°)	4126.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	293.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



REPORT NUMBER: P941975  
 CATALOG NUMBER: GALN-SB5D-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4
2.5°	7645.8	7689.0	7675.5	7662.0	7662.0	7643.1	7640.4	7613.4	7591.7	7556.6
5°	7743.1	7789.0	7783.6	7794.4	7829.6	7837.7	7845.8	7829.6	7786.3	7743.1
7.5°	7656.6	7708.0	7724.2	7789.0	7897.1	7994.4	8067.4	8097.1	8056.6	7994.4
10°	7364.7	7421.5	7478.2	7632.3	7824.2	8053.9	8248.5	8364.7	8356.6	8297.1
12.5°	6772.8	6832.3	6953.9	7253.9	7605.2	8010.6	8372.8	8616.0	8699.8	8656.6
15°	6299.9	6351.2	6443.1	6751.2	7208.0	7824.2	8418.7	8891.7	9105.2	9080.9
17.5°	6286.4	6308.0	6364.7	6510.7	6862.0	7532.3	8370.1	9162.0	9570.1	9567.4
20°	6524.2	6532.3	6564.7	6594.5	6794.5	7310.7	8245.8	9386.3	10091.7	10091.7
22.5°	6853.9	6848.5	6880.9	6853.9	6951.2	7291.7	8167.4	9583.6	10672.8	10716.0
25°	7348.5	7321.5	7313.4	7251.2	7270.1	7467.4	8253.9	9807.9	11361.9	11451.1
27.5°	8007.9	7964.7	7935.0	7791.7	7743.1	7829.6	8518.7	10078.2	12129.5	12283.5
30°	8867.4	8789.0	8745.8	8497.1	8321.5	8335.0	8918.7	10437.6	12932.2	13180.8
32.5°	10040.3	9918.7	9802.5	9394.4	9072.8	8967.4	9434.9	10934.9	13802.4	14199.7
35°	11353.8	11256.5	11132.2	10502.5	10007.9	9764.7	10132.2	11629.5	14821.3	15451.0
37.5°	12618.7	12534.9	12594.3	11745.7	11107.9	10753.8	11045.7	12561.9	16078.0	17007.8
40°	13926.7	13861.9	13870.0	13059.2	12316.0	11918.7	12153.8	13732.2	17518.6	18859.1
42.5°	15348.3	15299.7	15137.5	14418.6	13583.5	13213.2	13429.5	15083.5	19064.5	20967.1
45°	16940.2	16910.5	16759.1	15934.8	14978.1	14561.9	14853.7	16575.3	20618.5	22950.9
47.5°	18315.8	18340.2	18321.2	17626.7	16634.8	16024.0	16372.6	18132.1	22064.4	24815.7
50°	18978.0	19105.0	19291.5	19075.3	18459.1	17837.5	17905.0	19634.7	23442.8	26564.3
52.5°	18632.1	18872.6	19380.7	19726.6	19964.5	19834.7	19653.7	21126.6	24740.0	28142.7
55°	17342.9	17680.7	18523.9	19359.1	20572.6	21515.8	21753.6	22780.6	26004.9	29531.8
57.5°	14994.3	15542.9	16299.7	17988.8	20032.0	22329.3	24202.2	25075.2	27345.4	31015.6
60°	10967.3	11702.5	12643.0	15156.4	18140.2	21894.1	26285.9	28599.4	29250.8	32937.2
62.5°	7018.8	7472.8	8337.7	10705.2	14134.8	19664.5	26923.8	33004.7	32480.4	36088.5
65°	4805.3	5097.2	5889.1	7218.8	9137.7	14637.5	25215.7	36307.4	37610.0	41082.9
67.5°	3491.8	3713.4	4389.1	5553.9	5953.9	8662.0	19567.2	36156.0	42596.4	46228.8
70°	2545.9	2702.6	3270.2	4389.1	4581.0	4818.8	11853.8	30734.5	42488.3	47596.3
72.5°	1886.4	1994.6	2375.6	3405.3	3708.0	3254.0	5867.4	22337.4	36510.1	43050.5
75°	1364.8	1445.9	1727.0	2605.4	2967.5	2478.3	2927.0	13053.8	25467.0	30283.2
77.5°	1043.2	1105.4	1289.2	1908.1	2375.6	1859.4	1816.2	6005.3	12075.4	12134.9
80°	837.8	878.4	978.4	1343.2	1821.6	1391.9	1183.8	2424.3	3816.1	3229.7
82.5°	616.2	683.8	827.0	943.2	1302.7	959.4	721.6	1224.3	1451.3	1248.6
85°	351.3	397.3	500.0	675.7	832.4	586.5	413.5	543.2	675.7	554.0
87.5°	124.3	162.2	175.7	264.9	362.2	243.2	159.5	156.8	221.6	164.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941975  
 CATALOG NUMBER: GALN-SB5D-735-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7467.4	0°	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4	7467.4
7548.5	2.5°	7521.5	7508.0	7453.9	7380.9	7305.3	7232.3	7208.0	7156.6	7121.5	7102.6
7724.2	5°	7672.8	7629.6	7502.5	7340.4	7170.1	6986.3	6856.6	6737.7	6651.2	6570.1
7964.7	7.5°	7889.0	7813.4	7594.4	7310.7	7008.0	6702.6	6475.5	6302.6	6186.4	6110.7
8245.8	10°	8140.4	8024.2	7689.0	7264.7	6797.2	6359.3	6091.8	5943.1	5870.2	5829.6
8567.4	12.5°	8429.6	8264.7	7786.3	7159.3	6475.5	5975.6	5791.8	5748.5	5751.2	5753.9
8972.8	15°	8786.3	8556.6	7864.7	6929.6	6056.6	5681.0	5648.5	5718.8	5791.8	5826.9
9432.2	17.5°	9189.0	8864.7	7878.2	6551.2	5645.8	5491.8	5594.5	5745.8	5856.6	5905.3
9945.7	20°	9621.4	9178.2	7780.9	6016.1	5308.0	5337.7	5521.5	5716.1	5837.7	5899.9
10532.2	22.5°	10116.0	9513.3	7548.5	5453.9	5032.3	5170.2	5386.4	5575.6	5702.6	5764.7
11221.4	25°	10680.9	9889.0	7183.6	4981.0	4794.5	4981.0	5197.2	5353.9	5456.6	5513.4
11991.6	27.5°	11307.9	10280.9	6697.2	4605.3	4586.4	4786.4	4964.8	5086.4	5140.4	5183.7
12810.5	30°	11937.6	10637.6	6108.0	4321.5	4405.3	4594.5	4721.5	4775.6	4791.8	4799.9
13724.0	32.5°	12618.7	10945.7	5489.1	4086.4	4232.3	4408.0	4483.7	4508.0	4432.3	4381.0
14832.1	35°	13443.0	11275.4	4883.7	3899.9	4062.1	4213.4	4237.8	4216.1	4126.9	4021.5
16221.3	37.5°	14461.9	11686.2	4399.9	3767.5	3902.6	4002.6	3972.9	3967.5	3975.6	3851.3
17891.5	40°	15710.5	12221.4	4045.9	3664.8	3772.9	3794.5	3710.7	3756.7	3797.2	3608.0
19723.9	42.5°	17096.9	12867.3	3821.5	3594.5	3664.8	3613.4	3483.7	3535.1	3529.7	3281.0
21564.4	45°	18510.4	13570.0	3743.2	3543.2	3564.8	3462.1	3318.9	3332.4	3218.9	2994.5
23329.3	47.5°	19915.8	14324.0	3791.8	3499.9	3440.5	3324.3	3213.4	3154.0	2986.4	2818.9
25021.1	50°	21294.2	15115.9	3970.2	3413.4	3270.2	3202.6	3121.6	3016.2	2837.8	2694.5
26621.1	52.5°	22572.5	15913.2	4170.2	3270.2	3056.7	3097.2	3045.9	2924.3	2748.6	2602.6
28134.6	55°	23783.3	16710.5	4248.6	3072.9	2856.7	3005.3	2975.6	2751.3	2540.5	2421.6
29718.3	57.5°	25102.2	17669.9	4162.1	2821.6	2694.5	2899.9	2786.4	2537.8	2416.2	2327.0
31780.4	60°	26929.2	19175.3	3975.6	2510.8	2540.5	2743.2	2548.6	2445.9	2313.5	2213.5
34872.3	62.5°	29964.3	21983.3	3675.6	2202.7	2359.4	2510.8	2435.1	2332.4	2197.3	2100.0
40158.6	65°	34450.6	25886.0	3110.7	1962.1	2156.7	2283.7	2313.5	2210.8	2070.2	1967.5
44791.0	67.5°	38234.4	28334.6	2354.0	1762.1	1948.6	2100.0	2183.7	2083.7	1935.1	1835.1
45874.7	70°	38026.2	26556.2	1797.3	1564.8	1764.8	1918.9	2027.0	1948.6	1789.2	1694.6
41669.4	72.5°	33775.0	22215.8	1454.0	1364.8	1578.3	1729.7	1859.4	1800.0	1637.8	1545.9
30526.4	75°	24813.0	15769.9	1162.1	1162.1	1345.9	1532.4	1675.6	1637.8	1489.2	1424.3
12816.0	77.5°	10459.2	6616.1	910.8	964.8	1118.9	1316.2	1494.6	1508.1	1378.4	1459.4
3389.1	80°	2781.0	1824.3	694.6	759.4	878.4	1086.5	1300.0	1294.6	1154.0	1078.4
1259.4	82.5°	1059.4	718.9	494.6	535.1	635.1	832.4	1029.7	1062.1	921.6	797.3
494.6	85°	408.1	308.1	305.4	321.6	370.3	551.3	778.4	805.4	694.6	589.2
137.8	87.5°	105.4	91.9	113.5	108.1	170.3	294.6	445.9	462.2	424.3	245.9
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>
7467.4
7124.2
6602.6
6126.9
5840.4
5759.3
5824.2
5916.1
5916.1
5781.0
5529.6
5199.9
4818.8
4397.2
4026.9
3859.4
3613.4
3278.3
3002.6
2818.9
2683.7
2605.4
2410.8
2318.9
2208.1
2100.0
1972.9
1837.8
<i>1702.7</i>
1545.9
1405.4
1324.3
1002.7
797.3
608.1
351.3
0.0

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