

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: P944695

Luminaire Tested: **GALN-SB9D-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944695  
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-SB9D-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 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: 91839 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

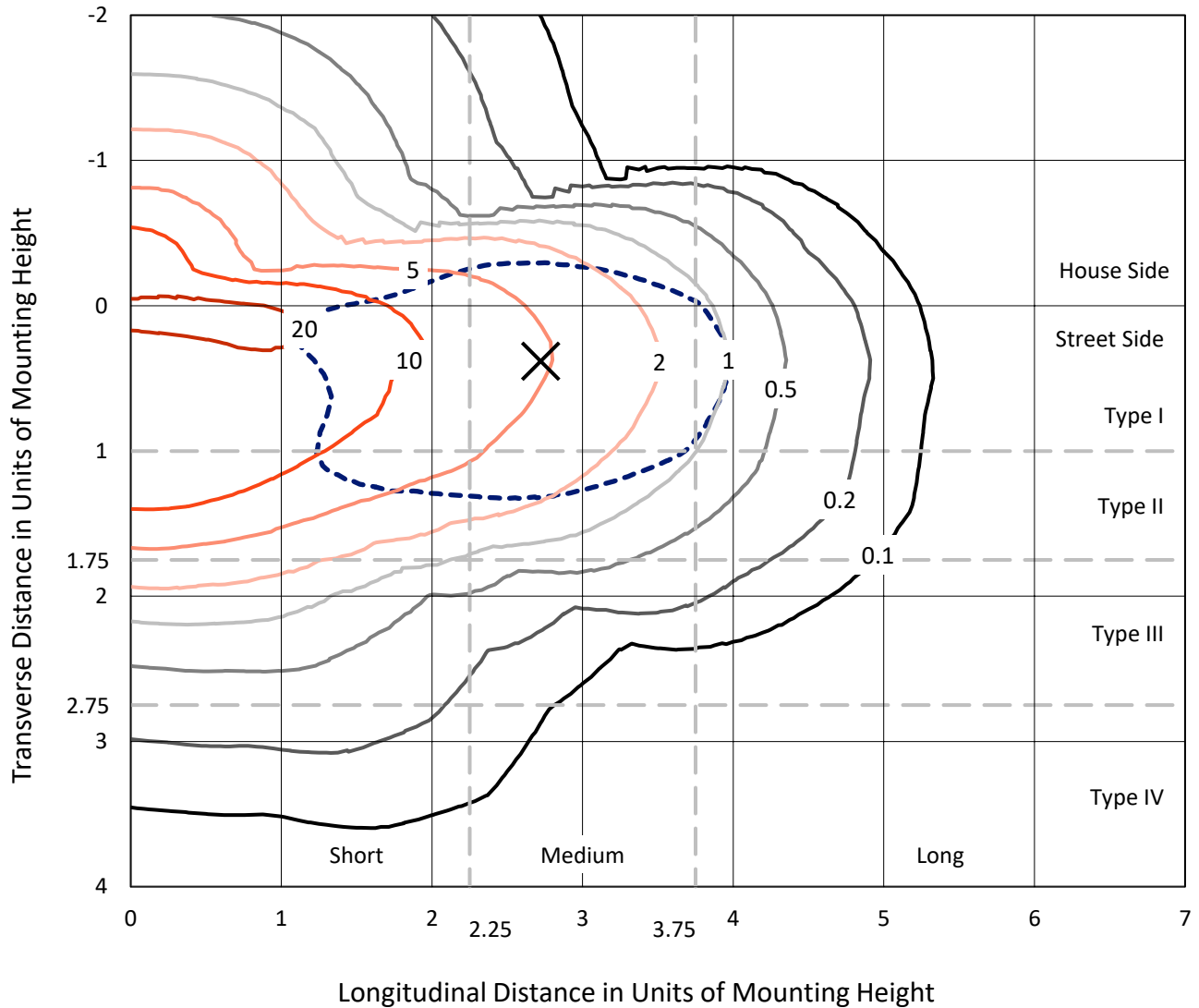
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

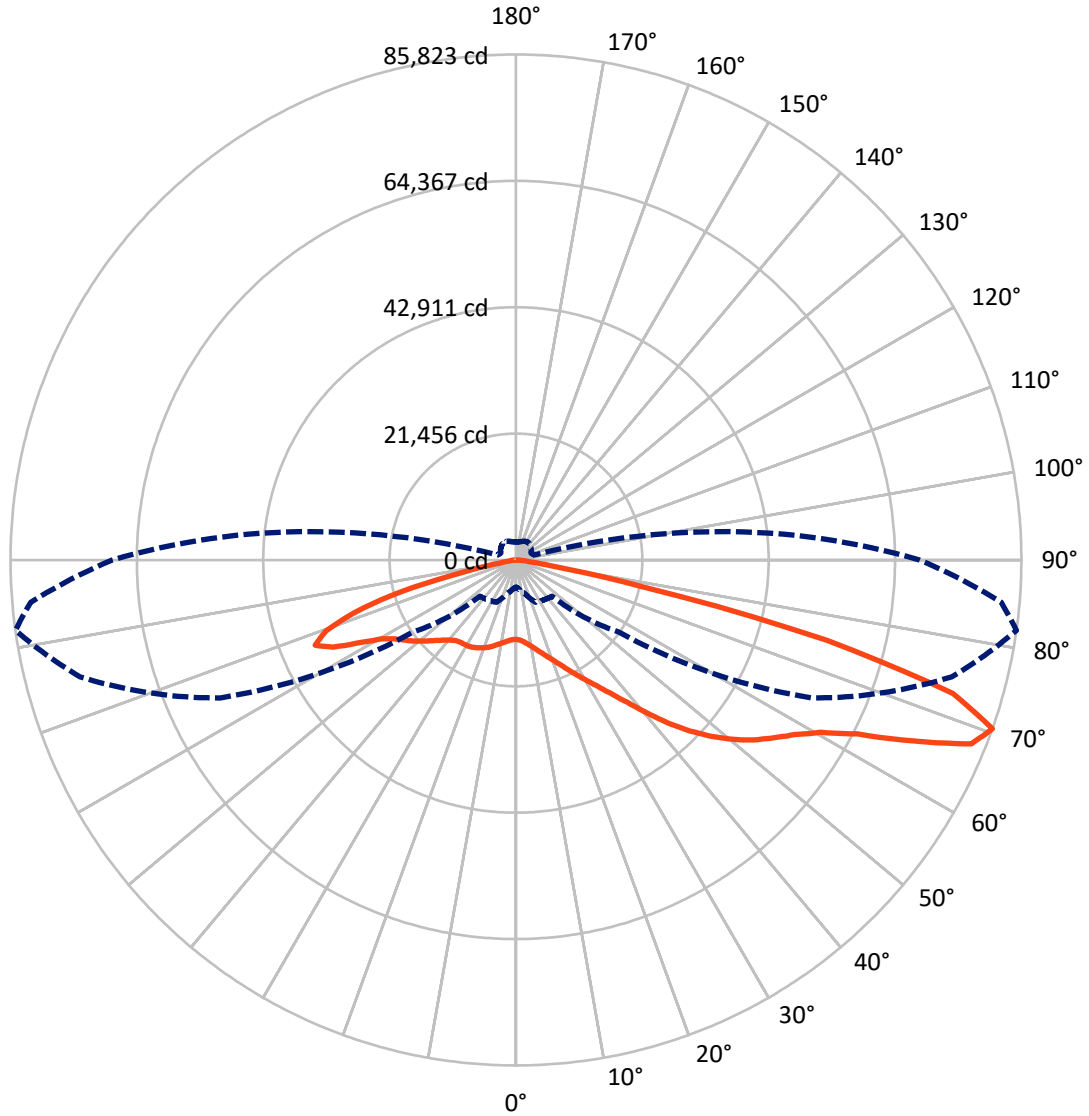
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc  
 Type II - Medium - N/A

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### 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	22640.6	0.0	22640.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	69198.4	0.0	69198.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	91839.0	0.0	91839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1271.3	1.4
10°-20°	3652.5	4.0
20°-30°	6110.4	6.7
30°-40°	9545.9	10.4
40°-50°	15203.0	16.6
50°-60°	21156.9	23.0
60°-70°	22131.0	24.1
70°-80°	11566.9	12.6
80°-90°	1201.1	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°	91839.0	100.0
0°-180°	91839.0	100.0

**Coefficient of Utilization**



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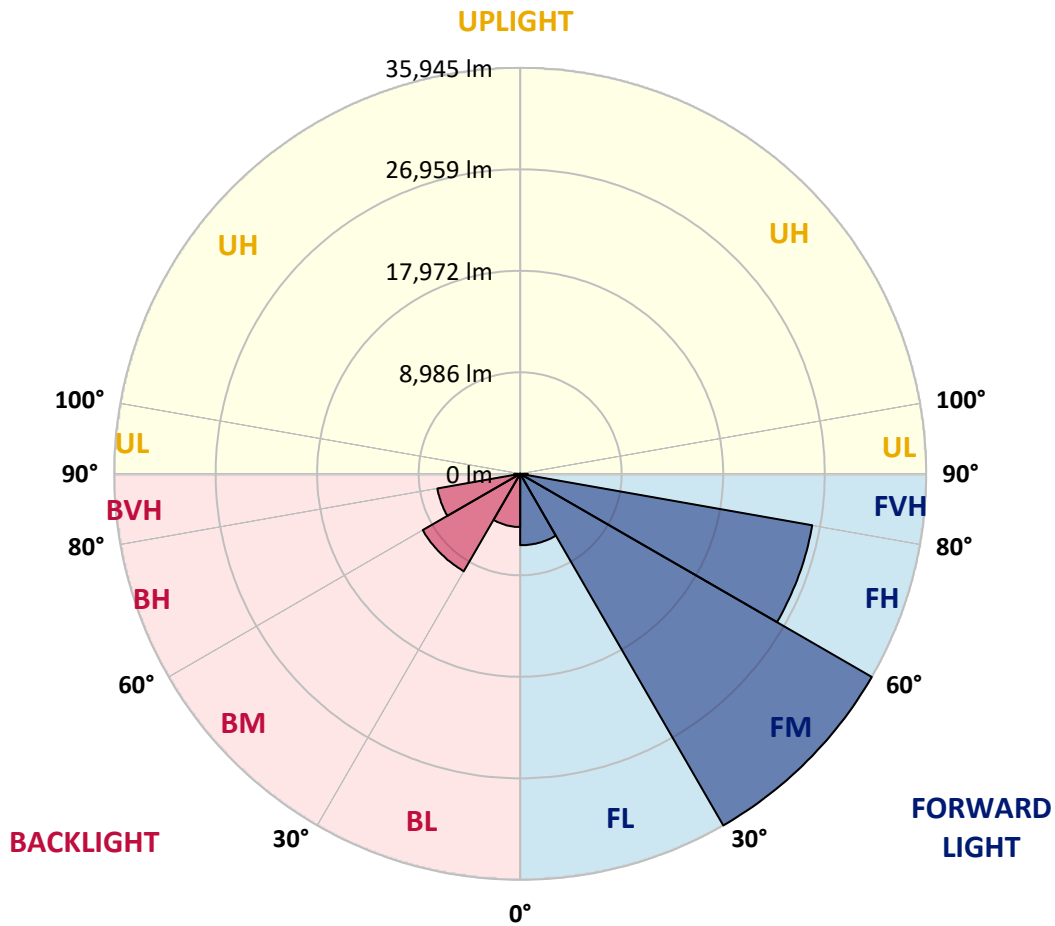
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6324.1	6.9			
FM (30°-60°)	35944.9	39.1			
FH (60°-80°)	26257.1	28.6			G5
FVH (80°-90°)	672.4	0.7			G4/750
BL (0°-30°)	4710.1	5.1	B4/5000		
BM (30°-60°)	9960.9	10.8	B5		
BH (60°-80°)	7440.8	8.1	B5		G5
BVH (80°-90°)	528.7	0.6			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7
2.5°	13786.4	13864.4	13840.0	13815.6	13815.6	13781.5	13776.6	13727.9	13688.9	13625.6
5°	13961.8	14044.7	14034.9	14054.4	14117.8	14132.4	14147.0	14117.8	14039.8	13961.8
7.5°	13805.9	13898.5	13927.7	14044.7	14239.6	14415.0	14546.6	14600.2	14527.1	14415.0
10°	13279.6	13381.9	13484.2	13762.0	14108.0	14522.2	14873.1	15082.7	15068.0	14960.8
12.5°	12212.3	12319.5	12538.8	13079.8	13713.3	14444.3	15097.3	15535.9	15686.9	15609.0
15°	11359.5	11452.1	11617.8	12173.3	12996.9	14108.0	15180.1	16032.9	16417.9	16374.1
17.5°	11335.1	11374.1	11476.5	11739.6	12373.1	13581.7	15092.4	16520.3	17256.1	17251.2
20°	11764.0	11778.6	11837.1	11890.7	12251.3	13182.1	14868.2	16924.7	18196.7	18196.7
22.5°	12358.5	12348.8	12407.3	12358.5	12534.0	13148.0	14726.9	17280.5	19244.4	19322.4
25°	13250.3	13201.6	13187.0	13074.9	13109.0	13464.7	14882.9	17685.0	20487.1	20647.9
27.5°	14439.4	14361.4	14307.8	14049.5	13961.8	14117.8	15360.4	18172.3	21871.1	22148.8
30°	15989.1	15847.8	15769.8	15321.4	15004.7	15029.1	16081.7	18820.4	23318.4	23766.8
32.5°	18104.1	17884.8	17675.2	16939.4	16359.4	16169.4	17012.5	19717.1	24887.6	25604.0
35°	20472.5	20297.0	20072.9	18937.4	18045.6	17607.0	18269.8	20969.5	26724.8	27860.3
37.5°	22753.1	22602.1	22709.3	21179.1	20029.0	19390.6	19916.9	22650.8	28990.9	30667.3
40°	25111.8	24994.8	25009.4	23547.5	22207.3	21491.0	21914.9	24760.9	31588.3	34005.4
42.5°	27675.1	27587.4	27295.0	25998.7	24492.9	23825.2	24215.1	27197.5	34375.8	37806.6
45°	30545.4	30491.8	30218.9	28732.6	27007.5	26257.0	26783.3	29887.5	37177.9	41383.5
47.5°	33025.9	33069.8	33035.7	31783.2	29994.8	28893.4	29522.1	32694.5	39785.1	44746.0
50°	34219.8	34448.9	34785.1	34395.3	33284.2	32163.3	32285.2	35404.0	42270.4	47899.0
52.5°	33596.1	34029.8	34946.0	35569.7	35998.6	35764.7	35438.2	38094.1	44609.6	50745.0
55°	31271.5	31880.7	33401.1	34907.0	37095.1	38795.8	39224.7	41076.5	46890.3	53249.8
57.5°	27036.7	28026.0	29390.5	32436.2	36120.4	40262.7	43639.8	45213.9	49307.4	55925.2
60°	19775.6	21101.1	22797.0	27329.1	32709.1	39478.1	47397.1	51568.6	52743.0	59390.1
62.5°	12655.8	13474.5	15033.9	19302.9	25487.0	35457.7	48547.2	59511.9	58566.5	65072.3
65°	8664.6	9190.9	10618.8	13016.4	16476.4	26393.4	45467.3	65467.0	67815.9	74078.0
67.5°	6296.2	6695.8	7914.1	10014.5	10735.7	15618.7	35282.2	65194.1	76807.0	83356.7
70°	4590.6	4873.2	5896.6	7914.1	8260.1	8689.0	21374.0	55418.4	76612.1	85822.5
72.5°	3401.5	3596.4	4283.6	6140.3	6686.1	5867.4	10579.8	40277.3	65832.5	77625.7
75°	2461.0	2607.2	3114.0	4697.8	5350.8	4468.8	5277.7	23537.7	45920.5	54604.6
77.5°	1881.1	1993.2	2324.5	3440.5	4283.6	3352.8	3274.8	10828.3	21773.6	21880.8
80°	1510.7	1583.8	1764.1	2422.0	3284.6	2509.7	2134.5	4371.3	6881.0	5823.5
82.5°	1111.1	1232.9	1491.2	1700.8	2348.9	1730.0	1301.2	2207.6	2616.9	2251.4
85°	633.5	716.4	901.5	1218.3	1501.0	1057.5	745.6	979.5	1218.3	999.0
87.5°	224.2	292.4	316.8	477.6	653.0	438.6	287.5	282.6	399.6	297.3
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°
13464.7	0°	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7	13464.7
13610.9	2.5°	13562.2	13537.8	13440.4	13308.8	13172.4	13040.8	12996.9	12904.3	12841.0	12806.9
13927.7	5°	13835.1	13757.1	13528.1	13235.7	12928.7	12597.3	12363.4	12149.0	11993.0	11846.8
14361.4	7.5°	14225.0	14088.5	13693.8	13182.1	12636.3	12085.6	11676.3	11364.4	11154.8	11018.4
14868.2	10°	14678.2	14468.6	13864.4	13099.3	12256.2	11466.7	10984.3	10716.2	10584.7	10511.6
15448.2	12.5°	15199.6	14902.3	14039.8	12909.2	11676.3	10774.7	10443.3	10365.4	10370.2	10375.1
16179.1	15°	15842.9	15428.7	14181.1	12495.0	10920.9	10243.5	10185.1	10311.8	10443.3	10506.7
17007.6	17.5°	16569.0	15984.2	14205.5	11812.7	10180.2	9902.4	10087.6	10360.5	10560.3	10648.0
17933.5	20°	17348.7	16549.5	14030.0	10847.8	9571.0	9624.6	9956.0	10306.9	10526.2	10638.3
18991.0	22.5°	18240.5	17153.8	13610.9	9834.2	9074.0	9322.5	9712.4	10053.5	10282.5	10394.6
20233.7	25°	19259.0	17831.2	12953.1	8981.4	8645.1	8981.4	9371.2	9653.9	9839.1	9941.4
21622.5	27.5°	20389.6	18537.8	12075.9	8304.0	8269.9	8630.5	8952.1	9171.4	9268.9	9346.9
23099.1	30°	21525.1	19181.0	11013.5	7792.3	7943.4	8284.5	8513.5	8611.0	8640.2	8654.9
24746.3	32.5°	22753.1	19736.6	9897.5	7368.3	7631.5	7948.2	8084.7	8128.6	7992.1	7899.5
26744.3	35°	24239.5	20331.1	8805.9	7032.1	7324.5	7597.4	7641.2	7602.2	7441.4	7251.4
29249.2	37.5°	26076.7	21071.9	7933.6	6793.3	7037.0	7217.3	7163.7	7153.9	7168.5	6944.4
32260.8	40°	28328.1	22036.8	7295.2	6608.1	6803.0	6842.0	6691.0	6773.8	6846.9	6505.8
35564.9	42.5°	30828.1	23201.5	6890.8	6481.4	6608.1	6515.5	6281.6	6374.2	6364.4	5916.1
38883.5	45°	33376.8	24468.5	6749.4	6388.8	6427.8	6242.6	5984.3	6008.7	5804.0	5399.5
42065.8	47.5°	35910.9	25828.1	6837.1	6310.8	6203.6	5994.1	5794.3	5687.1	5384.9	5082.8
45116.4	50°	38396.2	27256.0	7158.8	6154.9	5896.6	5774.8	5628.6	5438.5	5116.9	4858.6
48001.4	52.5°	40701.3	28693.6	7519.4	5896.6	5511.6	5584.7	5492.1	5272.8	4956.1	4692.9
50730.4	55°	42884.5	30131.2	7660.7	5540.9	5151.0	5419.0	5365.4	4961.0	4580.8	4366.4
53586.1	57.5°	45262.6	31861.2	7504.8	5087.7	4858.6	5229.0	5024.3	4576.0	4356.7	4195.9
57304.4	60°	48556.9	34575.6	7168.5	4527.2	4580.8	4946.3	4595.5	4410.3	4171.5	3991.2
62879.3	62.5°	54029.5	39638.9	6627.6	3971.7	4254.3	4527.2	4390.8	4205.6	3961.9	3786.5
72411.4	65°	62119.1	46675.8	5609.1	3538.0	3888.8	4117.9	4171.5	3986.3	3732.9	3547.7
80764.1	67.5°	68941.6	51091.0	4244.6	3177.3	3513.6	3786.5	3937.6	3757.3	3489.2	3308.9
82718.3	70°	68566.4	47884.4	3240.7	2821.6	3182.2	3460.0	3654.9	3513.6	3226.1	3055.5
75135.5	72.5°	60900.8	40058.0	2621.8	2461.0	2846.0	3118.9	3352.8	3245.6	2953.2	2787.5
55043.2	75°	44741.2	28435.3	2095.5	2095.5	2426.9	2763.1	3021.4	2953.2	2685.2	2568.2
23108.9	77.5°	18859.4	11929.7	1642.3	1739.7	2017.5	2373.3	2694.9	2719.3	2485.3	2631.5
6111.0	80°	5014.6	3289.4	1252.4	1369.4	1583.8	1959.0	2344.0	2334.3	2080.9	1944.4
2270.9	82.5°	1910.3	1296.3	891.8	964.9	1145.2	1501.0	1856.7	1915.2	1661.8	1437.6
891.8	85°	735.9	555.5	550.7	579.9	667.6	994.1	1403.5	1452.2	1252.4	1062.4
248.5	87.5°	190.1	165.7	204.7	194.9	307.0	531.2	804.1	833.3	765.1	443.5
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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180°  
13464.7  
12845.8  
11905.3  
11047.6  
10531.1  
10384.9  
10501.8  
10667.5  
10667.5  
10423.8  
9970.6  
9376.1  
8689.0  
7928.8  
7261.1  
6959.0  
6515.5  
5911.2  
5414.2  
5082.8  
4839.1  
4697.8  
4346.9  
4181.2  
3981.4  
3786.5  
3557.5  
3313.8  
**3070.1**  
2787.5  
2534.1  
2387.9  
1808.0  
1437.6  
1096.5  
633.5  
0.0

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