

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: P954538

Luminaire Tested: **GALN-SB7D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71931 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

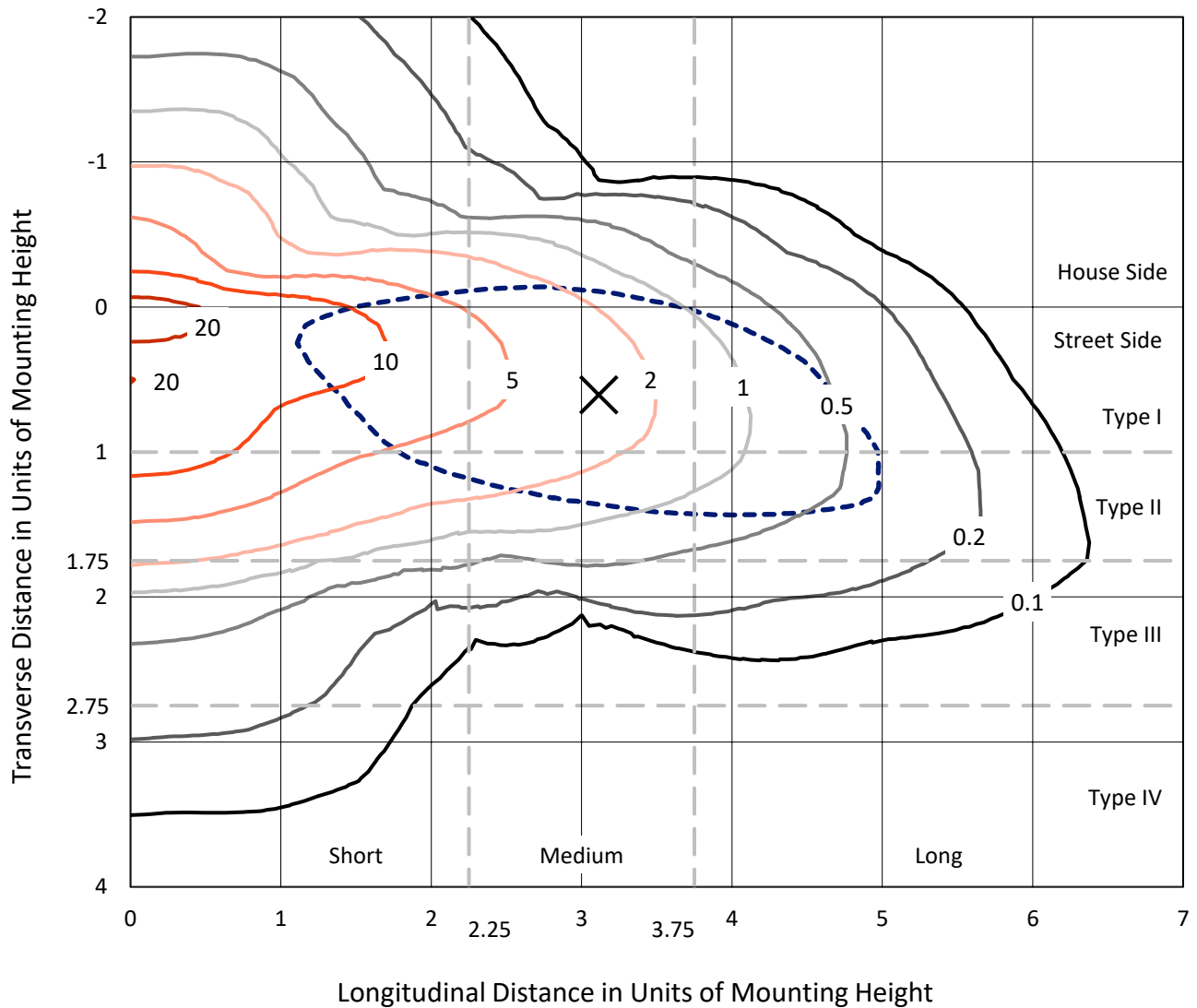
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

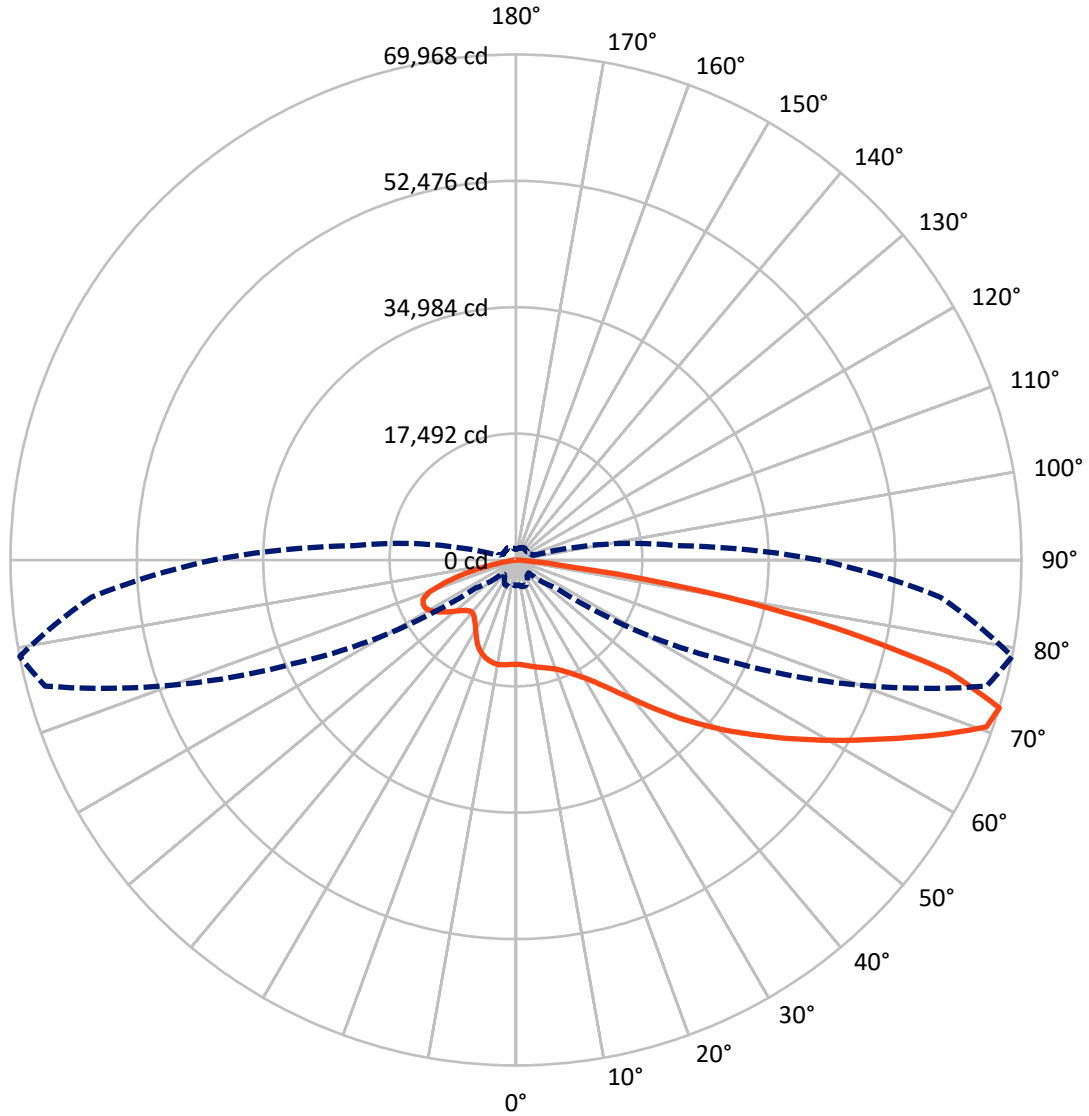
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15828.8	0.0	15828.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	56102.2	0.0	56102.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	71931.0	0.0	71931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1310.7	1.8
10°-20°	3426.8	4.8
20°-30°	5529.4	7.7
30°-40°	8298.9	11.5
40°-50°	11772.5	16.4
50°-60°	14867.1	20.7
60°-70°	15099.5	21.0
70°-80°	10291.0	14.3
80°-90°	1335.2	1.9
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°	71931.0	100.0
0°-180°	71931.0	100.0

Coefficient of Utilization



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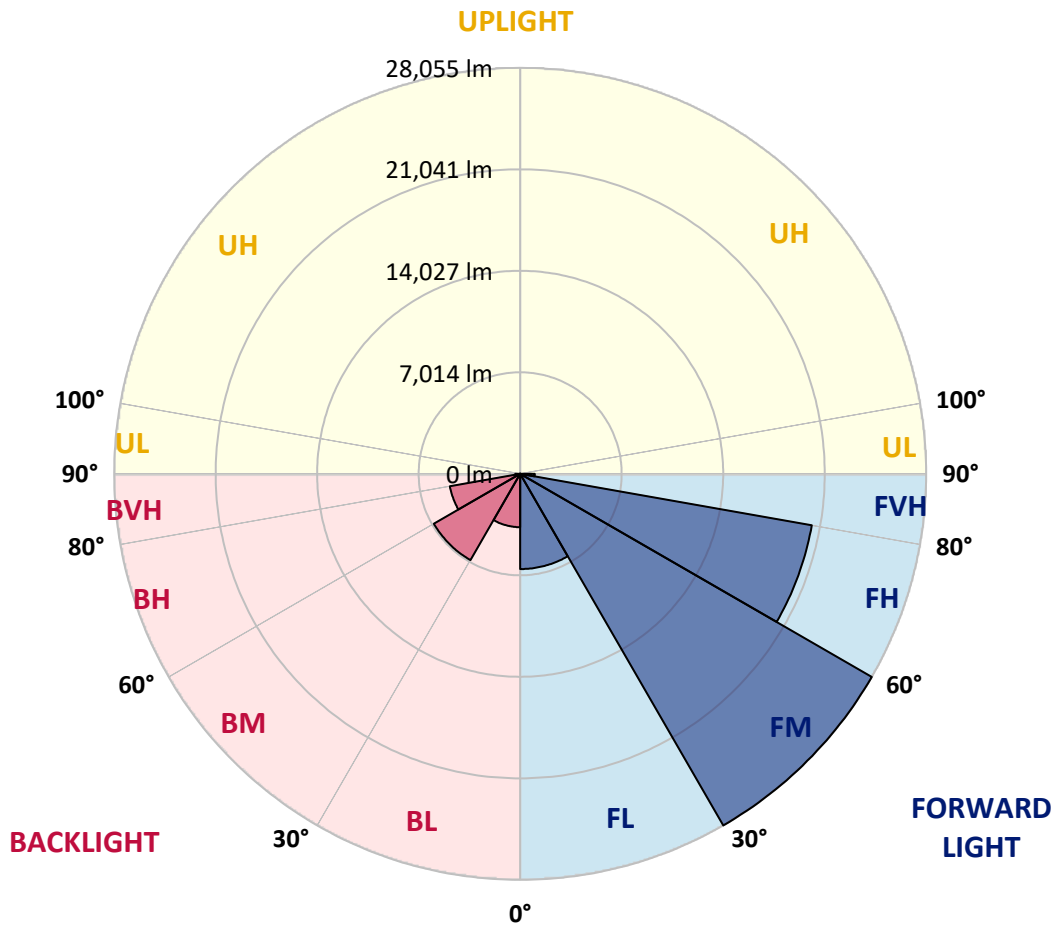
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6579.9	9.1			
FM (30°-60°)	28054.6	39.0			
FH (60°-80°)	20461.9	28.4			G5
FVH (80°-90°)	1005.8	1.4			G5
BL (0°-30°)	3687.0	5.1	B4/5000		
BM (30°-60°)	6883.8	9.6	B4/8500		
BH (60°-80°)	4928.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	329.4	0.5			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5
2.5°	14447.1	14378.6	14420.4	14405.2	14424.2	14447.1	14454.7	14466.1	14504.1	14500.3
5°	14416.6	14348.1	14405.2	14386.2	14435.7	14488.9	14534.6	14576.4	14637.3	14664.0
7.5°	14352.0	14306.3	14363.4	14420.4	14511.8	14591.7	14656.3	14751.5	14839.0	14854.2
10°	13975.3	13941.0	14074.2	14222.6	14473.7	14690.6	14831.4	14941.7	15036.8	15052.0
12.5°	13583.4	13541.5	13689.9	13891.6	14298.7	14690.6	14987.4	15131.9	15215.7	15265.1
15°	13518.7	13484.4	13568.2	13743.2	14081.8	14587.9	15093.9	15360.2	15432.5	15489.6
17.5°	13830.7	13766.0	13800.2	13861.1	14059.0	14492.7	15177.6	15619.0	15729.3	15790.2
20°	14553.6	14462.3	14409.0	14287.3	14253.0	14508.0	15170.0	15931.0	16075.6	16151.7
22.5°	15516.2	15455.4	15341.2	15033.0	14698.2	14694.4	15314.6	16330.5	16600.6	16672.9
25°	16680.5	16589.2	16444.6	16026.1	15383.1	15063.5	15558.1	16840.3	17293.1	17312.1
27.5°	18019.8	17882.9	17685.0	17133.3	16265.8	15641.8	15931.0	17426.3	18088.3	18080.7
30°	19431.4	19294.5	19085.2	18415.5	17323.6	16421.8	16448.4	18057.9	19031.9	18990.1
32.5°	20462.6	20359.8	20318.0	19800.5	18541.1	17342.6	17042.0	18758.0	20196.2	20158.2
35°	21254.0	21120.8	21170.3	20907.7	19869.0	18373.7	17768.7	19591.3	21611.6	21607.8
37.5°	22037.8	21919.8	21961.7	21786.7	21098.0	19682.6	18655.3	20611.0	23365.7	23449.4
40°	22753.1	22627.5	22794.9	22631.3	22053.0	21075.1	19663.5	21763.8	25397.5	25557.3
42.5°	23183.0	23084.1	23361.9	23365.7	22882.5	22250.9	20770.8	23034.7	27748.9	28106.5
45°	23331.4	23297.2	23715.7	23803.2	23616.8	22931.9	21767.6	24419.6	30282.9	30922.1
47.5°	23171.6	23106.9	23685.3	24008.7	24157.1	23251.5	22593.3	25918.7	32870.2	33806.2
50°	22365.0	22239.4	23099.3	23780.4	24309.3	23460.8	23426.6	27650.0	35811.4	36834.9
52.5°	20915.3	20820.2	21798.1	22981.4	23974.5	23563.5	24362.6	29541.0	38604.2	39928.3
55°	19062.4	18936.8	20013.6	21558.4	23141.2	23529.3	25298.6	31656.5	41899.2	43242.3
57.5°	16125.0	15873.9	17236.0	19062.4	21782.9	23487.4	26272.6	33760.6	45247.5	46856.9
60°	11840.7	11467.9	13138.2	15303.2	19127.1	23080.3	27478.7	36119.6	49265.4	50715.1
62.5°	6894.4	6677.5	7769.5	9789.9	14416.6	20683.2	28156.0	38862.9	53214.8	54736.8
65°	5353.4	5292.6	5387.7	5543.7	8024.5	15485.8	26067.1	41537.7	58237.3	59302.6
67.5°	4896.9	4851.2	4893.1	4600.1	4071.2	8625.6	20622.4	42215.0	63617.4	64264.2
70°	4352.8	4299.5	4436.5	4185.4	3203.7	3922.8	13324.6	39757.0	67897.8	69111.6
72.5°	3546.1	3485.3	3804.9	3690.7	2697.6	2518.8	6692.8	33916.6	67448.8	69967.7
75°	2724.3	2690.0	3070.5	3165.6	2199.2	1982.3	3211.3	25211.0	59355.9	61893.7
77.5°	2115.5	2088.9	2282.9	2629.2	1773.1	1537.2	1974.7	15991.8	44730.0	45175.2
80°	1586.6	1510.5	1689.4	2035.6	1381.2	1122.4	1339.3	9325.7	28274.0	25629.6
82.5°	993.1	955.0	1103.4	1358.3	974.0	772.4	871.3	5151.8	11330.9	6673.7
85°	566.9	551.7	601.2	776.2	528.9	445.2	498.4	2275.3	2069.8	1423.0
87.5°	228.3	220.7	274.0	346.2	194.0	163.6	175.0	547.9	456.6	422.3
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°
14439.5	0°	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5	14439.5
14496.5	2.5°	14481.3	14481.3	14428.0	14344.3	14249.2	14188.3	14089.4	14062.8	13960.1	13929.6
14625.9	5°	14656.3	14625.9	14462.3	14226.4	13903.0	13606.2	13279.0	13073.5	12784.3	12681.6
14880.8	7.5°	14877.0	14793.3	14511.8	13994.3	13317.0	12651.2	11958.7	11433.6	10931.4	10752.5
15090.1	10°	15078.7	14960.7	14481.3	13575.8	12403.9	11251.0	10147.6	9375.2	8789.2	8549.5
15322.2	12.5°	15280.3	15063.5	14279.7	12879.5	11106.4	9542.6	8366.9	7765.7	7404.3	7115.1
15512.4	15°	15470.6	15166.2	13967.7	11947.3	9683.4	8096.8	7229.2	6749.8	6460.7	6270.4
15790.2	17.5°	15691.3	15253.7	13499.7	10764.0	8328.9	7096.1	6388.4	6099.2	6042.1	6019.3
16170.7	20°	15999.5	15333.6	12883.3	9439.9	7332.0	6297.1	5931.8	5905.2	5901.3	5889.9
16627.3	22.5°	16330.5	15428.7	12069.0	8237.5	6483.5	5798.6	5733.9	5680.7	5646.4	5642.6
17179.0	25°	16722.4	15459.2	11049.3	7252.1	5760.6	5562.7	5486.6	5406.7	5383.9	5383.9
17806.8	27.5°	17102.9	15356.4	9862.2	6396.0	5353.4	5345.8	5246.9	5220.3	5216.5	5227.9
18522.1	30°	17483.4	15162.4	8682.7	5604.6	5117.5	5117.5	5083.3	5102.3	5117.5	5155.6
19503.7	32.5°	17997.0	14956.9	7697.2	5018.6	4912.1	4874.0	4908.3	4946.3	4961.5	5011.0
20793.6	35°	18750.4	14812.3	6913.4	4699.0	4699.0	4649.5	4668.6	4661.0	4626.7	4603.9
22353.6	37.5°	19747.3	14804.7	6266.6	4550.6	4520.2	4512.6	4516.4	4466.9	4333.7	4173.9
24240.8	40°	20945.8	15010.2	5768.2	4447.9	4425.1	4470.7	4447.9	4314.7	3949.5	3671.7
26561.8	42.5°	22555.2	15596.1	5448.6	4322.3	4390.8	4447.9	4356.6	3896.2	3648.9	3462.4
29206.1	45°	24450.1	16547.4	5285.0	4189.2	4326.1	4394.6	3953.3	3751.6	3553.7	3329.3
32090.2	47.5°	26596.0	17745.9	5246.9	4063.6	4181.5	4223.4	3782.0	3690.7	3466.2	3222.7
34989.5	50°	28932.2	19165.1	5349.6	3915.2	3972.3	3827.7	3725.0	3641.3	3409.2	3169.5
37961.1	52.5°	31348.3	20728.9	5555.1	3713.5	3763.0	3603.2	3702.1	3629.8	3374.9	3051.5
41031.7	55°	33722.5	22304.1	5753.0	3477.6	3549.9	3401.5	3637.5	3584.2	3218.9	2853.6
44307.7	57.5°	36134.8	23871.7	5947.0	3268.4	3344.5	3207.5	3534.7	3462.4	3043.9	2671.0
47884.2	60°	38642.2	25393.7	6038.3	3066.7	3120.0	3028.7	3378.7	3253.2	2846.0	2484.6
51399.9	62.5°	40989.8	26660.7	5889.9	2865.1	2899.3	2861.3	3173.3	3005.8	2648.2	2275.3
55064.0	65°	43345.0	27414.1	5433.3	2667.2	2674.8	2655.8	2884.1	2739.5	2416.1	2092.7
58271.5	67.5°	45479.6	27836.4	4706.6	2454.1	2435.1	2427.5	2613.9	2450.3	2191.6	1910.0
60710.4	70°	45932.3	26763.4	3595.6	2203.0	2203.0	2184.0	2317.2	2149.7	1944.3	1716.0
58964.0	72.5°	41952.4	22513.4	2553.1	1917.7	1948.1	1910.0	2020.4	1879.6	1693.2	1541.0
50817.8	75°	33829.1	16509.3	1856.8	1624.7	1677.9	1613.3	1716.0	1617.1	1457.3	1453.5
35020.0	77.5°	23243.9	10208.5	1346.9	1339.3	1377.4	1293.7	1411.6	1358.3	1213.8	1149.1
15242.3	80°	9919.3	4071.2	981.7	1034.9	1034.9	958.8	1095.8	1111.0	985.5	955.0
2941.2	82.5°	1974.7	1156.7	688.7	711.5	669.7	646.8	776.2	859.9	1187.1	1320.3
886.5	85°	593.6	426.1	414.7	388.1	342.4	346.2	456.6	863.7	1065.4	608.8
293.0	87.5°	163.6	106.5	110.3	87.5	72.3	95.1	156.0	654.4	357.7	152.2
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°
14439.5
13979.1
12757.7
10775.4
8602.8
7210.2
6304.7
6034.5
5928.0
5684.5
5406.7
5258.3
5182.2
5052.9
4657.2
4177.7
3664.1
3454.8
3314.0
3203.7
3142.8
3028.7
2834.6
2663.4
2473.2
2271.5
2069.8
1887.2
1708.4
1495.3
1308.9
1076.8
955.0
1324.1
525.1
129.4
0.0

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