

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: P944095

Luminaire Tested: **GALN-SB8D-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944095
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-SB8D-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77987 lumens
Efficiency: N/A
Efficacy: 133.3 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

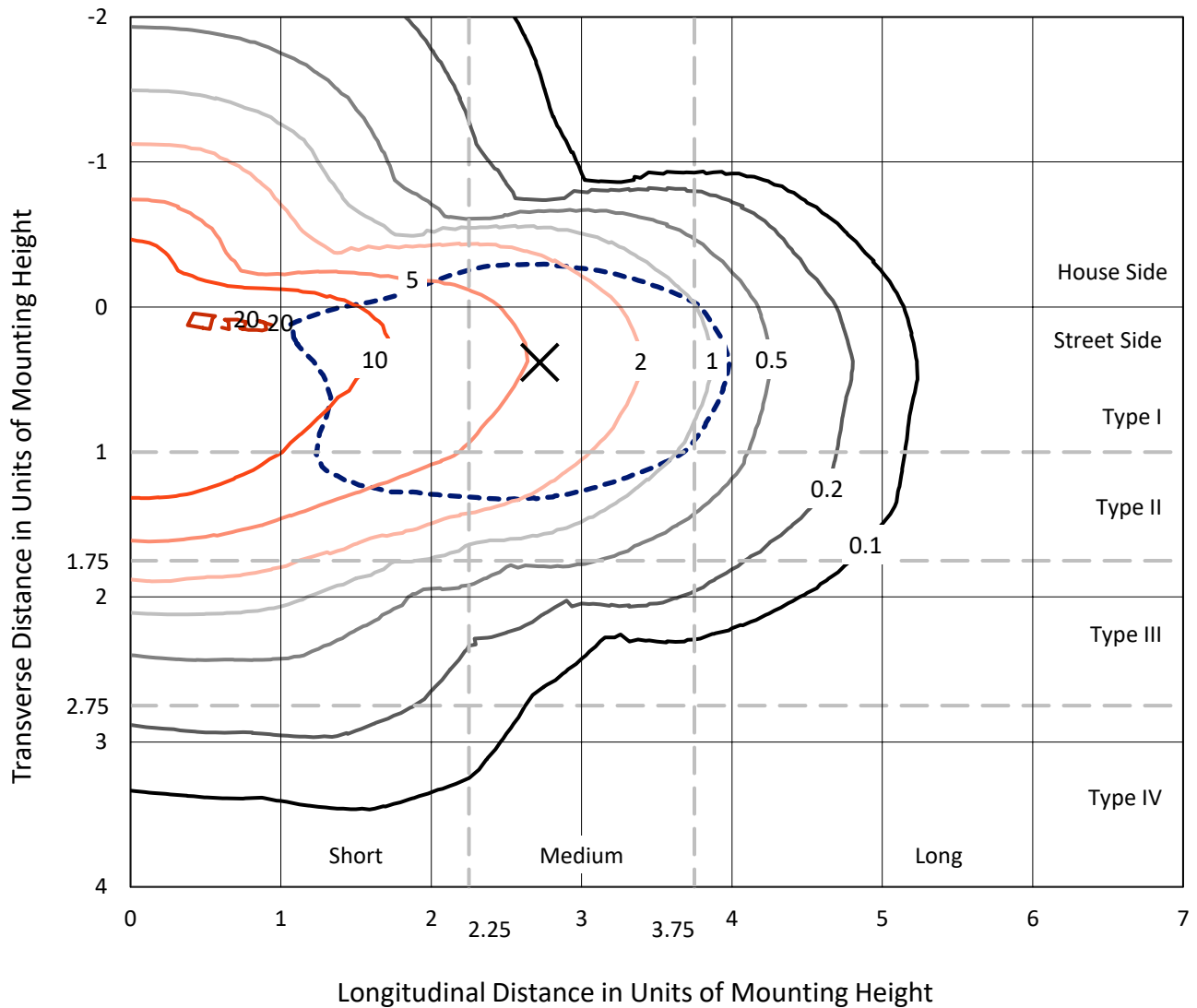
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

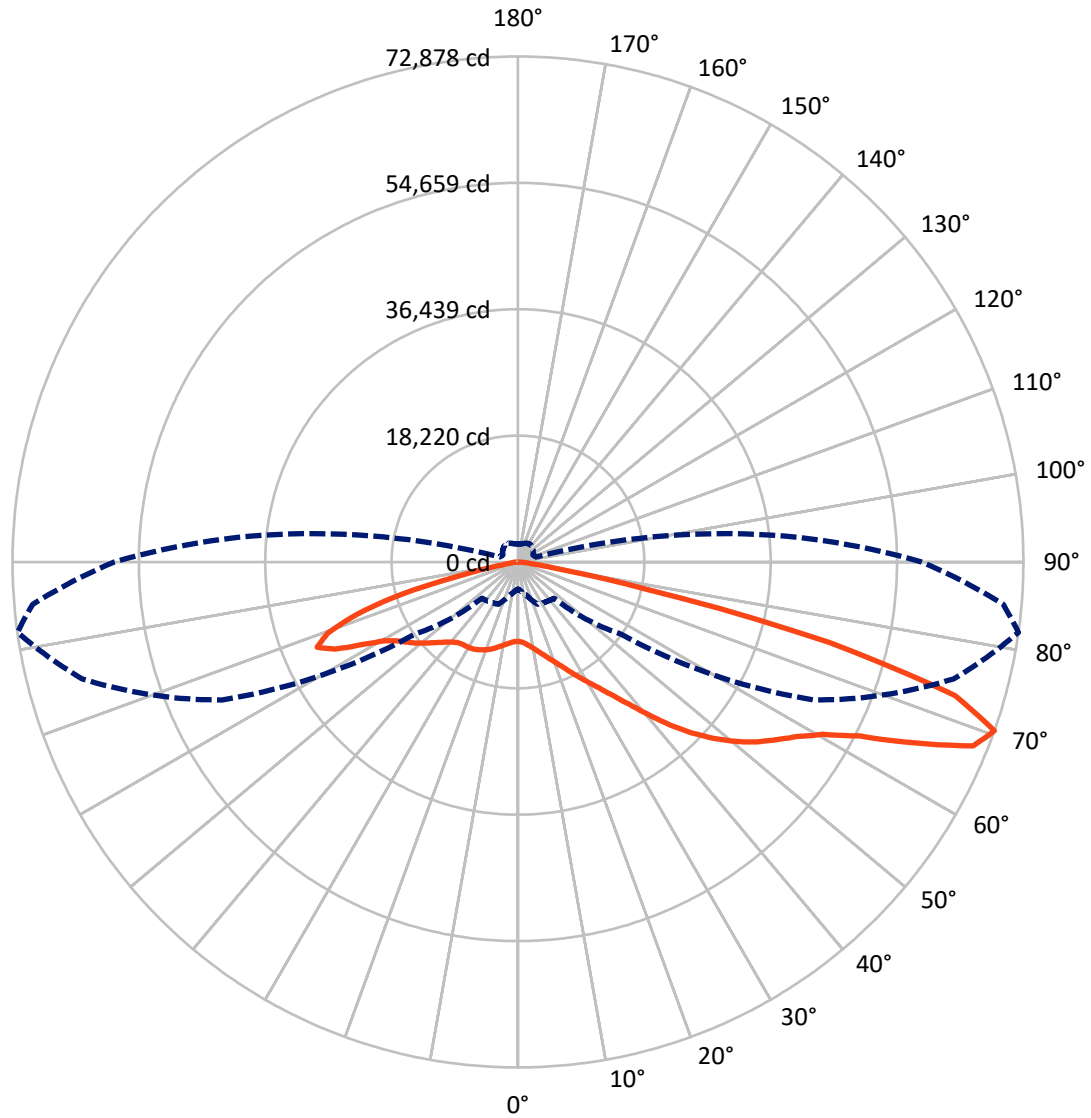
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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
House Side	Lumens	19225.7	0.0	19225.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	58761.3	0.0	58761.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	77987.0	0.0	77987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.6	1.4
10°-20°	3101.6	4.0
20°-30°	5188.7	6.7
30°-40°	8106.1	10.4
40°-50°	12910.0	16.6
50°-60°	17965.8	23.0
60°-70°	18793.0	24.1
70°-80°	9822.2	12.6
80°-90°	1019.9	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°	77987.0	100.0
0°-180°	77987.0	100.0

Coefficient of Utilization



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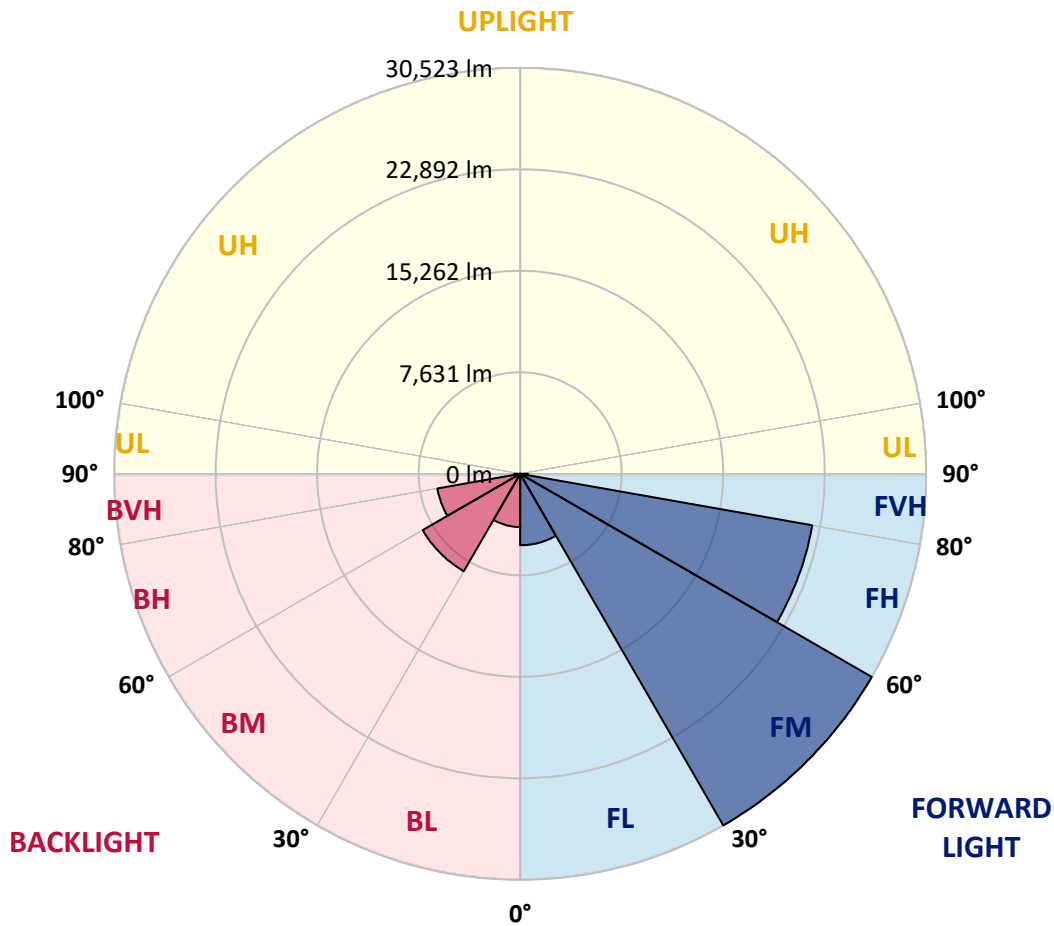
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5370.3	6.9			
FM (30°-60°)	30523.3	39.1			
FH (60°-80°)	22296.7	28.6			G5
FVH (80°-90°)	571.0	0.7			G4/750
BL (0°-30°)	3999.6	5.1	B4/5000		
BM (30°-60°)	8458.5	10.8	B4/8500		
BH (60°-80°)	6318.5	8.1	B5		G5
BVH (80°-90°)	449.0	0.6			G3/500
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°	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9
2.5°	11707.0	11773.2	11752.5	11731.8	11731.8	11702.9	11698.7	11657.3	11624.2	11570.4
5°	11856.0	11926.3	11918.0	11934.6	11988.4	12000.8	12013.2	11988.4	11922.2	11856.0
7.5°	11723.5	11802.2	11827.0	11926.3	12091.8	12240.8	12352.6	12398.1	12336.0	12240.8
10°	11276.6	11363.5	11450.4	11686.3	11980.1	12331.9	12629.8	12807.8	12795.3	12704.3
12.5°	10370.3	10461.4	10647.6	11107.0	11644.9	12265.6	12820.2	13192.6	13320.9	13254.7
15°	9646.2	9724.8	9865.5	10337.2	11036.6	11980.1	12890.5	13614.7	13941.6	13904.4
17.5°	9625.5	9658.6	9745.5	9968.9	10506.9	11533.2	12816.0	14028.5	14653.4	14649.3
20°	9989.6	10002.0	10051.7	10097.2	10403.5	11193.9	12625.7	14372.0	15452.1	15452.1
22.5°	10494.5	10486.2	10535.9	10494.5	10643.5	11164.9	12505.7	14674.1	16341.8	16408.0
25°	11251.8	11210.4	11198.0	11102.8	11131.8	11433.9	12638.1	15017.6	17397.0	17533.6
27.5°	12261.5	12195.3	12149.8	11930.5	11856.0	11988.4	13043.6	15431.4	18572.3	18808.2
30°	13577.5	13457.5	13391.2	13010.5	12741.5	12762.2	13656.1	15981.8	19801.3	20182.0
32.5°	15373.4	15187.2	15009.3	14384.4	13892.0	13730.6	14446.5	16743.2	21133.8	21742.1
35°	17384.6	17235.6	17045.3	16081.1	15323.8	14951.3	15514.1	17806.7	22693.9	23658.1
37.5°	19321.3	19193.0	19284.1	17984.7	17008.0	16465.9	16912.9	19234.4	24618.2	26041.7
40°	21324.2	21224.9	21237.3	19995.8	18857.8	18249.5	18609.5	21026.2	26823.9	28876.4
42.5°	23500.9	23426.4	23178.1	22077.3	20798.6	20231.7	20562.8	23095.3	29190.9	32104.2
45°	25938.3	25892.8	25661.0	24398.9	22934.0	22296.7	22743.6	25379.6	31570.4	35141.7
47.5°	28044.6	28081.9	28052.9	26989.4	25470.7	24535.4	25069.3	27763.2	33784.3	37997.0
50°	29058.5	29253.0	29538.5	29207.5	28264.0	27312.2	27415.6	30064.1	35894.8	40674.4
52.5°	28528.8	28897.1	29675.1	30204.8	30568.9	30370.3	30093.1	32348.4	37881.2	43091.2
55°	26554.9	27072.2	28363.3	29642.0	31500.0	32944.3	33308.4	34881.0	39817.8	45218.2
57.5°	22958.8	23798.8	24957.5	27543.9	30672.4	34189.9	37057.7	38394.3	41870.4	47490.1
60°	16792.8	17918.4	19358.5	23207.1	27775.7	33523.6	40248.2	43790.5	44787.8	50432.3
62.5°	10746.9	11442.1	12766.4	16391.4	21642.8	30109.6	41224.8	50535.8	49733.0	55257.5
65°	7357.7	7804.7	9017.2	11053.2	13991.3	22412.5	38609.5	55592.7	57587.3	62904.9
67.5°	5346.6	5685.9	6720.5	8504.0	9116.5	13263.0	29960.6	55360.9	65222.3	70784.1
70°	3898.2	4138.2	5007.2	6720.5	7014.3	7378.4	18150.2	47059.7	65056.8	72878.0
72.5°	2888.5	3054.0	3637.5	5214.1	5677.6	4982.4	8984.1	34202.3	55903.1	65917.5
75°	2089.8	2213.9	2644.3	3989.2	4543.8	3794.7	4481.7	19987.5	38994.3	46368.6
77.5°	1597.3	1692.5	1973.9	2921.6	3637.5	2847.1	2780.9	9195.1	18489.5	18580.6
80°	1282.8	1344.9	1498.0	2056.7	2789.2	2131.2	1812.5	3712.0	5843.2	4945.2
82.5°	943.5	1047.0	1266.3	1444.2	1994.6	1469.1	1104.9	1874.6	2222.2	1911.9
85°	538.0	608.3	765.6	1034.6	1274.6	898.0	633.1	831.8	1034.6	848.3
87.5°	190.4	248.3	269.0	405.5	554.5	372.4	244.2	240.0	339.3	252.4
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°
11433.9	0°	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9
11558.0	2.5°	11516.6	11495.9	11413.2	11301.4	11185.6	11073.8	11036.6	10958.0	10904.2	10875.2
11827.0	5°	11748.4	11682.2	11487.7	11239.4	10978.7	10697.3	10498.6	10316.6	10184.1	10060.0
12195.3	7.5°	12079.4	11963.6	11628.4	11193.9	10730.4	10262.8	9915.1	9650.3	9472.4	9356.5
12625.7	10°	12464.3	12286.3	11773.2	11123.5	10407.6	9737.2	9327.5	9099.9	8988.2	8926.1
13118.1	12.5°	12907.1	12654.6	11922.2	10962.1	9915.1	9149.6	8868.2	8802.0	8806.1	8810.2
13738.9	15°	13453.3	13101.6	12042.2	10610.4	9273.7	8698.5	8648.9	8756.4	8868.2	8922.0
14442.3	17.5°	14069.9	13573.3	12062.9	10031.0	8644.7	8408.8	8566.1	8797.8	8967.5	9042.0
15228.6	20°	14732.0	14053.4	11913.9	9211.7	8127.4	8173.0	8454.4	8752.3	8938.5	9033.7
16126.6	22.5°	15489.3	14566.5	11558.0	8350.9	7705.3	7916.4	8247.4	8537.1	8731.6	8826.8
17181.8	25°	16354.2	15141.7	10999.4	7626.7	7341.2	7626.7	7957.8	8197.8	8355.0	8441.9
18361.2	27.5°	17314.3	15741.7	10254.5	7051.5	7022.5	7328.8	7601.9	7788.1	7870.9	7937.1
19615.1	30°	18278.5	16288.0	9352.4	6617.0	6745.3	7035.0	7229.4	7312.2	7337.0	7349.5
21013.8	32.5°	19321.3	16759.7	8404.7	6257.0	6480.4	6749.4	6865.3	6902.5	6786.7	6708.0
22710.5	35°	20583.4	17264.6	7477.7	5971.4	6219.7	6451.5	6488.7	6455.6	6319.0	6157.7
24837.5	37.5°	22143.6	17893.6	6737.0	5768.7	5975.6	6128.7	6083.2	6074.9	6087.3	5896.9
27394.9	40°	24055.4	18713.0	6194.9	5611.4	5776.9	5810.0	5681.8	5752.1	5814.2	5524.5
30200.6	42.5°	26178.3	19702.0	5851.4	5503.8	5611.4	5532.8	5334.2	5412.8	5404.5	5023.8
33018.8	45°	28342.6	20777.9	5731.4	5425.2	5458.3	5301.0	5081.7	5102.4	4928.6	4585.1
35721.0	47.5°	30494.5	21932.5	5805.9	5359.0	5267.9	5090.0	4920.3	4829.3	4572.7	4316.2
38311.5	50°	32604.9	23145.0	6079.0	5226.6	5007.2	4903.8	4779.6	4618.2	4345.1	4125.8
40761.4	52.5°	34562.3	24365.8	6385.3	5007.2	4680.3	4742.4	4663.8	4477.5	4208.6	3985.1
43078.7	55°	36416.2	25586.5	6505.3	4705.1	4374.1	4601.7	4556.2	4212.7	3889.9	3707.8
45503.7	57.5°	38435.7	27055.6	6372.8	4320.3	4125.8	4440.3	4266.5	3885.8	3699.6	3563.0
48661.2	60°	41233.1	29360.6	6087.3	3844.4	3889.9	4200.3	3902.3	3745.1	3542.3	3389.2
53395.3	62.5°	45880.3	33660.2	5628.0	3372.6	3612.7	3844.4	3728.5	3571.3	3364.4	3215.4
61489.6	65°	52749.7	39635.8	4763.1	3004.3	3302.3	3496.8	3542.3	3385.1	3169.9	3012.6
68582.5	67.5°	58543.2	43385.0	3604.4	2698.1	2983.6	3215.4	3343.7	3190.6	2963.0	2809.8
70241.9	70°	58224.6	40662.0	2751.9	2396.0	2702.2	2938.1	3103.7	2983.6	2739.5	2594.7
63802.9	72.5°	51715.2	34016.1	2226.4	2089.8	2416.7	2648.5	2847.1	2756.0	2507.8	2367.1
46741.1	75°	37992.9	24146.4	1779.4	1779.4	2060.8	2346.4	2565.7	2507.8	2280.2	2180.8
19623.4	77.5°	16014.9	10130.3	1394.6	1477.3	1713.2	2015.3	2288.4	2309.1	2110.5	2234.6
5189.3	80°	4258.2	2793.3	1063.5	1162.8	1344.9	1663.6	1990.5	1982.2	1767.0	1651.1
1928.4	82.5°	1622.2	1100.8	757.3	819.4	972.5	1274.6	1576.7	1626.3	1411.1	1220.8
757.3	85°	624.9	471.8	467.6	492.4	566.9	844.2	1191.8	1233.2	1063.5	902.1
211.0	87.5°	161.4	140.7	173.8	165.5	260.7	451.1	682.8	707.6	649.7	376.6
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°
11433.9
10908.3
10109.6
9381.3
8942.7
8818.5
8917.8
9058.5
9058.5
8851.6
8466.8
7961.9
7378.4
6732.9
6165.9
5909.4
5532.8
5019.6
4597.5
4316.2
4109.2
3989.2
3691.3
3550.6
3380.9
3215.4
3020.9
2814.0
2607.1
2367.1
2151.9
2027.7
1535.3
1220.8
931.1
538.0
0.0

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