

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: P943415

Luminaire Tested: **GALN-SB7D-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943415  
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-SB7D-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 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: 68588 lumens  
Efficiency: N/A  
Efficacy: 133.8 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

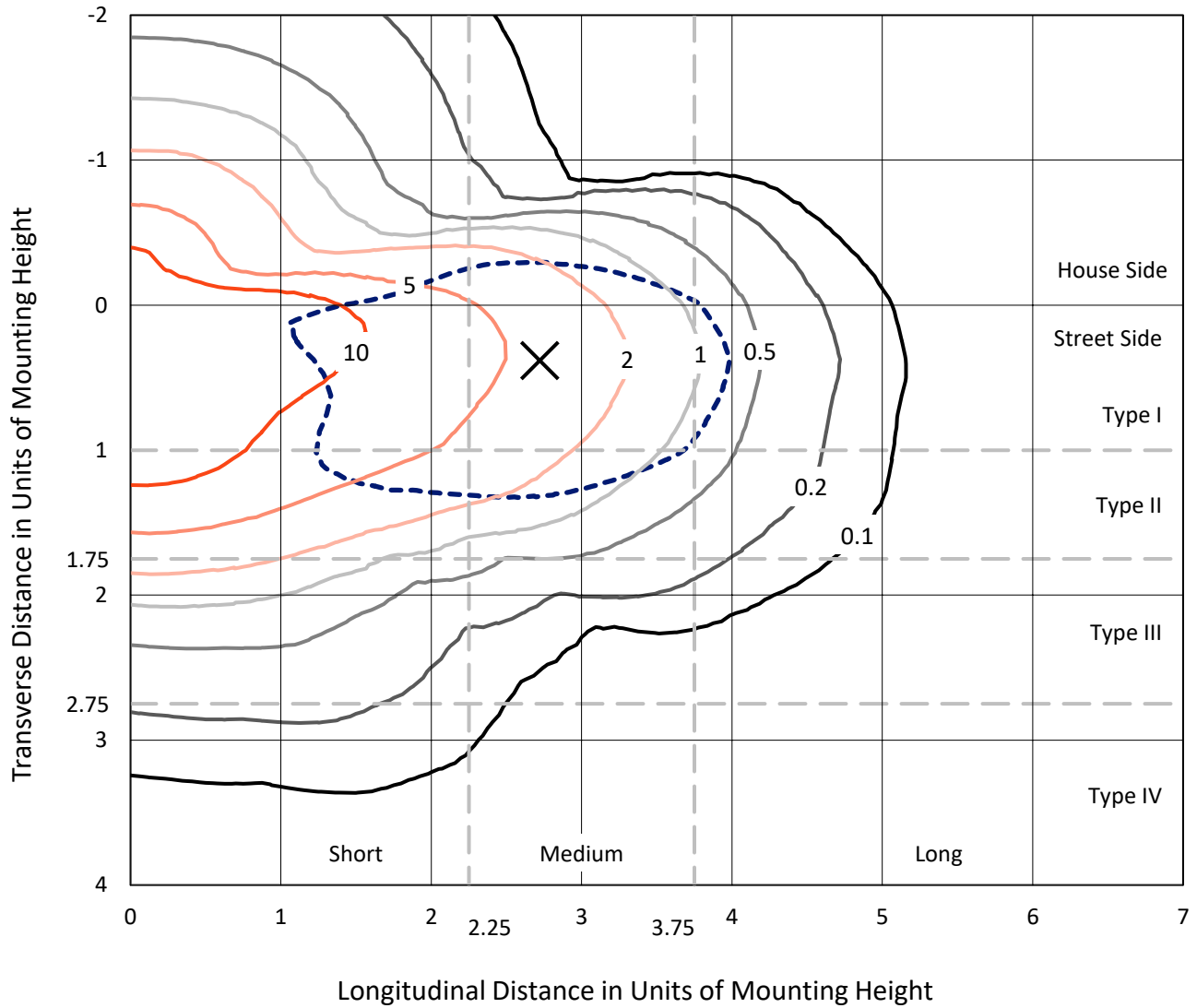
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

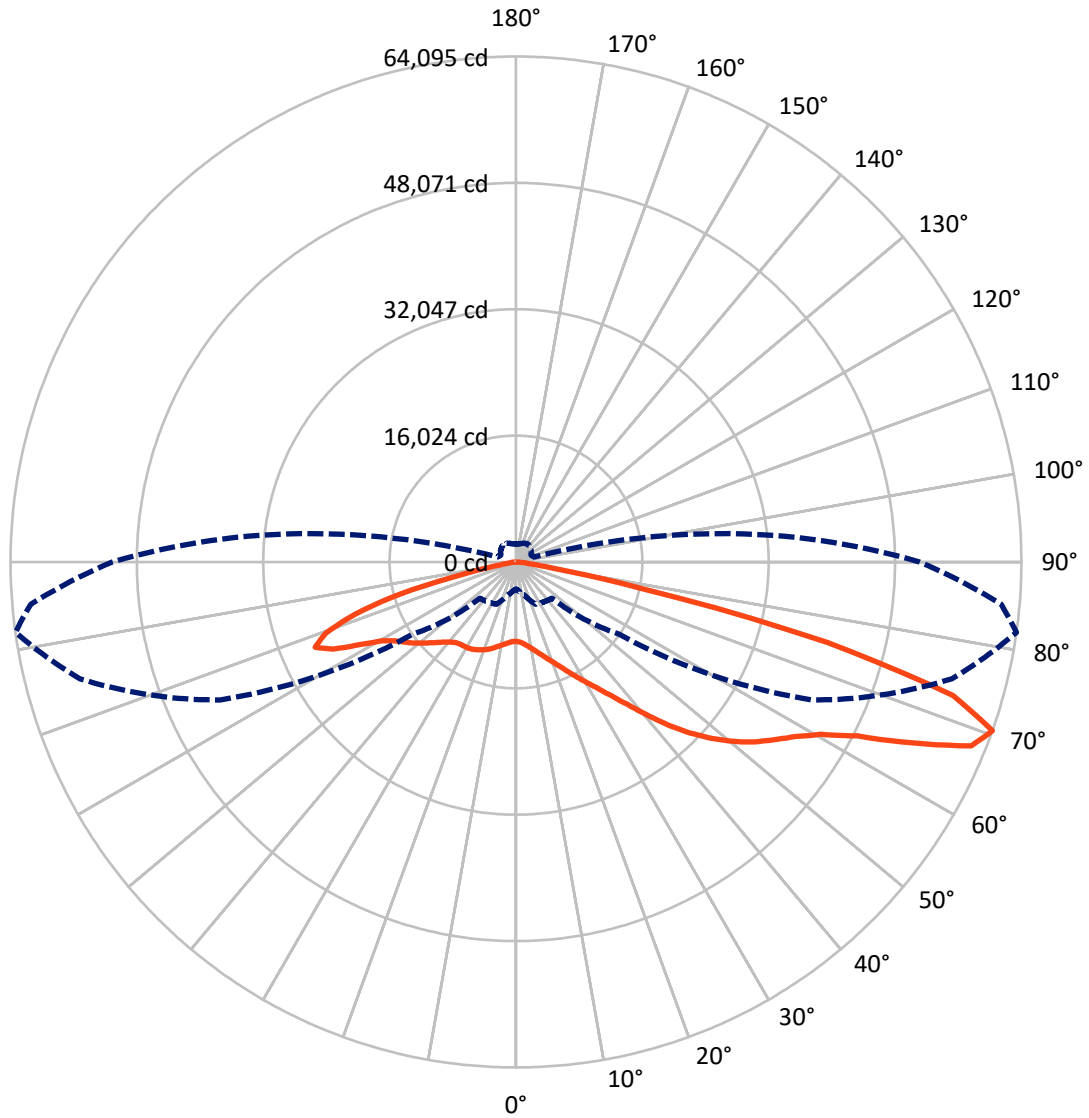
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	16908.6	0.0	16908.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	51679.4	0.0	51679.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	68588.0	0.0	68588.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.5	1.4
10°-20°	2727.8	4.0
20°-30°	4563.4	6.7
30°-40°	7129.2	10.4
40°-50°	11354.0	16.6
50°-60°	15800.5	23.0
60°-70°	16528.1	24.1
70°-80°	8638.5	12.6
80°-90°	897.0	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°	68588.0	100.0
0°-180°	68588.0	100.0

**Coefficient of Utilization**



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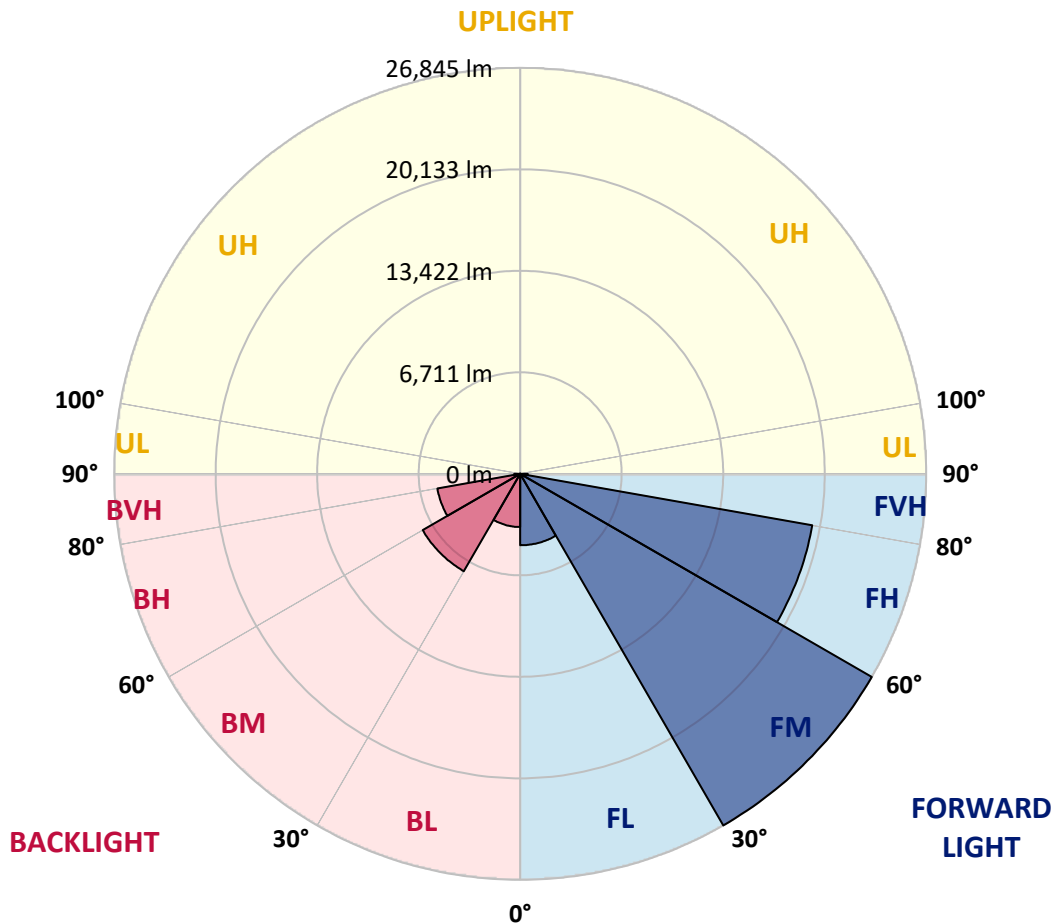
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4723.0	6.9			
FM (30°-60°)	26844.7	39.1			
FH (60°-80°)	19609.5	28.6			G5
FVH (80°-90°)	502.2	0.7			G4/750
BL (0°-30°)	3517.6	5.1	B4/5000		
BM (30°-60°)	7439.1	10.8	B4/8500		
BH (60°-80°)	5557.0	8.1	B5		G5
BVH (80°-90°)	394.9	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°	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9
2.5°	10296.1	10354.3	10336.1	10317.9	10317.9	10292.4	10288.8	10252.4	10223.3	10176.0
5°	10427.1	10489.0	10481.7	10496.2	10543.5	10554.5	10565.4	10543.5	10485.3	10427.1
7.5°	10310.6	10379.8	10401.6	10489.0	10634.5	10765.6	10863.8	10903.9	10849.3	10765.6
10°	9917.6	9994.0	10070.4	10277.9	10536.3	10845.6	11107.7	11264.2	11253.2	11173.2
12.5°	9120.5	9200.6	9364.4	9768.3	10241.5	10787.4	11275.1	11602.6	11715.5	11657.2
15°	8483.6	8552.8	8676.5	9091.4	9706.5	10536.3	11337.0	11973.9	12261.4	12228.6
17.5°	8465.4	8494.5	8571.0	8767.5	9240.6	10143.2	11271.4	12337.8	12887.4	12883.7
20°	8785.7	8796.6	8840.3	8880.3	9149.6	9844.8	11104.0	12639.9	13589.8	13589.8
22.5°	9229.7	9222.4	9266.1	9229.7	9360.7	9819.3	10998.5	12905.6	14372.3	14430.5
25°	9895.7	9859.3	9848.4	9764.7	9790.2	10055.9	11114.9	13207.6	15300.3	15420.4
27.5°	10783.8	10725.5	10685.5	10492.6	10427.1	10543.5	11471.6	13571.6	16333.9	16541.4
30°	11941.1	11835.6	11777.3	11442.5	11205.9	11224.1	12010.3	14055.6	17414.9	17749.7
32.5°	13520.6	13356.9	13200.4	12650.8	12217.7	12075.8	12705.4	14725.3	18586.8	19121.8
35°	15289.4	15158.4	14991.0	14143.0	13477.0	13149.4	13644.4	15660.6	19958.9	20806.9
37.5°	16992.7	16879.9	16959.9	15817.1	14958.2	14481.5	14874.5	16916.3	21651.2	22903.2
40°	18754.2	18666.8	18677.8	17585.9	16585.1	16050.1	16366.7	18492.2	23591.1	25396.2
42.5°	20668.6	20603.0	20384.7	19416.6	18292.0	17793.4	18084.5	20311.9	25672.8	28235.0
45°	22812.2	22772.2	22568.4	21458.3	20169.9	19609.5	20002.5	22320.9	27765.5	30906.4
47.5°	24664.7	24697.5	24672.0	23736.6	22400.9	21578.4	22047.9	24417.2	29712.6	33417.6
50°	25556.4	25727.4	25978.5	25687.4	24857.6	24020.5	24111.5	26440.8	31568.8	35772.4
52.5°	25090.5	25414.4	26098.6	26564.5	26884.8	26710.1	26466.2	28449.7	33315.7	37897.8
55°	23354.5	23809.4	24944.9	26069.5	27703.7	28973.8	29294.1	30677.1	35019.0	39768.5
57.5°	20191.8	20930.6	21949.6	24224.3	26975.8	30069.3	32591.5	33767.0	36824.2	41766.6
60°	14769.0	15758.9	17025.4	20410.2	24428.1	29483.4	35397.5	38512.9	39390.0	44354.2
62.5°	9451.7	10063.1	11227.8	14415.9	19034.4	26480.8	36256.4	44445.2	43739.2	48597.9
65°	6471.0	6864.0	7930.4	9721.0	12305.1	19711.4	33956.3	48892.7	50646.9	55323.6
67.5°	4702.2	5000.6	5910.5	7479.1	8017.8	11664.5	26349.8	48688.8	57361.7	62253.2
70°	3428.4	3639.5	4403.8	5910.5	6168.9	6489.2	15962.7	41388.1	57216.1	64094.7
72.5°	2540.4	2685.9	3199.1	4585.7	4993.4	4381.9	7901.3	30080.2	49165.6	57973.1
75°	1837.9	1947.1	2325.6	3508.5	3996.1	3337.4	3941.5	17578.6	34294.7	40780.3
77.5°	1404.8	1488.5	1736.0	2569.5	3199.1	2504.0	2445.7	8086.9	16261.2	16341.2
80°	1128.2	1182.8	1317.5	1808.8	2453.0	1874.3	1594.1	3264.6	5138.9	4349.2
82.5°	829.8	920.8	1113.7	1270.2	1754.2	1292.0	971.7	1648.7	1954.4	1681.4
85°	473.1	535.0	673.3	909.9	1121.0	789.8	556.8	731.5	909.9	746.1
87.5°	167.4	218.4	236.6	356.7	487.7	327.6	214.7	211.1	298.4	222.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10055.9	0°	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9	10055.9
10165.0	2.5°	10128.6	10110.5	10037.7	9939.4	9837.5	9739.2	9706.5	9637.3	9590.0	9564.5
10401.6	5°	10332.5	10274.2	10103.2	9884.8	9655.5	9408.0	9233.3	9073.2	8956.7	8847.6
10725.5	7.5°	10623.6	10521.7	10226.9	9844.8	9437.1	9025.9	8720.2	8487.2	8330.7	8228.8
11104.0	10°	10962.1	10805.6	10354.3	9782.9	9153.3	8563.7	8203.4	8003.2	7904.9	7850.3
11537.1	12.5°	11351.5	11129.5	10485.3	9641.0	8720.2	8046.9	7799.4	7741.2	7744.8	7748.4
12083.0	15°	11831.9	11522.6	10590.9	9331.6	8156.1	7650.2	7606.5	7701.1	7799.4	7846.7
12701.8	17.5°	12374.2	11937.5	10609.1	8822.1	7602.9	7395.4	7533.7	7737.5	7886.7	7952.2
13393.3	20°	12956.5	12359.6	10478.0	8101.5	7147.9	7188.0	7435.4	7697.5	7861.3	7945.0
14183.0	22.5°	13622.5	12810.9	10165.0	7344.5	6776.7	6962.3	7253.5	7508.2	7679.3	7763.0
15111.1	25°	14383.2	13316.8	9673.7	6707.5	6456.4	6707.5	6998.7	7209.8	7348.1	7424.5
16148.3	27.5°	15227.5	13844.5	9018.6	6201.7	6176.2	6445.5	6685.7	6849.5	6922.3	6980.5
17251.1	30°	16075.5	14325.0	8225.2	5819.5	5932.3	6187.1	6358.2	6430.9	6452.8	6463.7
18481.2	32.5°	16992.7	14739.9	7391.8	5502.9	5699.4	5936.0	6037.9	6070.6	5968.7	5899.6
19973.4	35°	18102.7	15183.9	6576.5	5251.8	5470.1	5673.9	5706.7	5677.6	5557.5	5415.5
21844.1	37.5°	19474.8	15737.1	5925.1	5073.4	5255.4	5390.1	5350.0	5342.7	5353.7	5186.2
24093.3	40°	21156.2	16457.7	5448.3	4935.1	5080.7	5109.8	4997.0	5058.9	5113.5	4858.7
26560.9	42.5°	23023.3	17327.5	5146.2	4840.5	4935.1	4866.0	4691.3	4760.4	4753.1	4418.3
29039.3	45°	24926.7	18273.8	5040.7	4771.3	4800.5	4662.2	4469.3	4487.5	4334.6	4032.5
31415.9	47.5°	26819.3	19289.2	5106.2	4713.1	4633.0	4476.5	4327.3	4247.3	4021.6	3796.0
33694.2	50°	28675.4	20355.6	5346.4	4596.7	4403.8	4312.8	4203.6	4061.6	3821.4	3628.6
35848.8	52.5°	30396.9	21429.2	5615.7	4403.8	4116.2	4170.8	4101.7	3937.9	3701.3	3504.8
37886.9	55°	32027.3	22502.8	5721.2	4138.1	3846.9	4047.1	4007.1	3705.0	3421.1	3261.0
40019.6	57.5°	33803.4	23794.9	5604.8	3799.6	3628.6	3905.2	3752.3	3417.5	3253.7	3133.6
42796.5	60°	36263.7	25822.0	5353.7	3381.1	3421.1	3694.1	3432.0	3293.7	3115.4	2980.7
46960.1	62.5°	40350.8	29603.5	4949.7	2966.2	3177.3	3381.1	3279.2	3140.9	2958.9	2827.9
54078.9	65°	46392.3	34858.9	4189.0	2642.3	2904.3	3075.4	3115.4	2977.1	2787.8	2649.5
60317.0	67.5°	51487.6	38156.2	3170.0	2372.9	2624.1	2827.9	2940.7	2806.0	2605.9	2471.2
61776.4	70°	51207.4	35761.4	2420.2	2107.3	2376.6	2584.0	2729.6	2624.1	2409.3	2281.9
56113.4	72.5°	45482.5	29916.5	1958.0	1837.9	2125.5	2329.3	2504.0	2423.9	2205.5	2081.8
41107.8	75°	33414.0	21236.3	1565.0	1565.0	1812.5	2063.6	2256.5	2205.5	2005.3	1918.0
17258.4	77.5°	14084.8	8909.4	1226.5	1299.3	1506.7	1772.4	2012.6	2030.8	1856.1	1965.3
4563.9	80°	3745.0	2456.6	935.3	1022.7	1182.8	1463.1	1750.6	1743.3	1554.1	1452.1
1696.0	82.5°	1426.7	968.1	666.0	720.6	855.3	1121.0	1386.6	1430.3	1241.1	1073.6
666.0	85°	549.6	414.9	411.3	433.1	498.6	742.5	1048.2	1084.6	935.3	793.4
185.6	87.5°	141.9	123.7	152.9	145.6	229.3	396.7	600.5	622.3	571.4	331.2
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°
10055.9
9593.6
8891.2
8250.7
7864.9
7755.7
7843.1
7966.8
7966.8
7784.8
7446.4
7002.3
6489.2
5921.4
5422.8
5197.2
4866.0
4414.7
4043.5
3796.0
3614.0
3508.5
3246.4
3122.7
2973.4
2827.9
2656.8
2474.8
2292.9
2081.8
1892.5
1783.3
1350.2
1073.6
818.9
473.1
0.0

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