

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: P944035

Luminaire Tested: **GALN-SB8D-750-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944035  
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-750-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 86258 lumens  
Efficiency: N/A  
Efficacy: 147.5 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

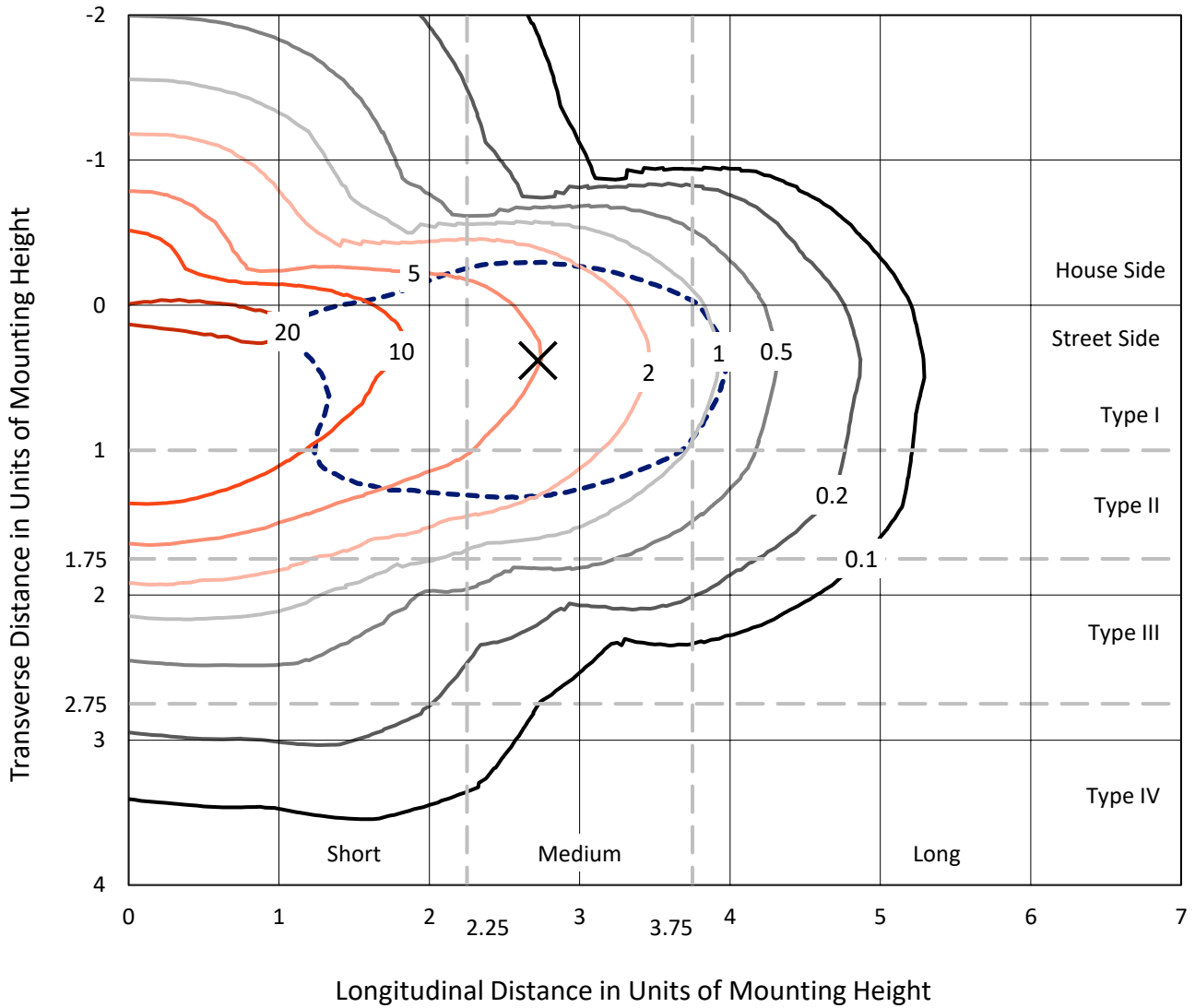
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

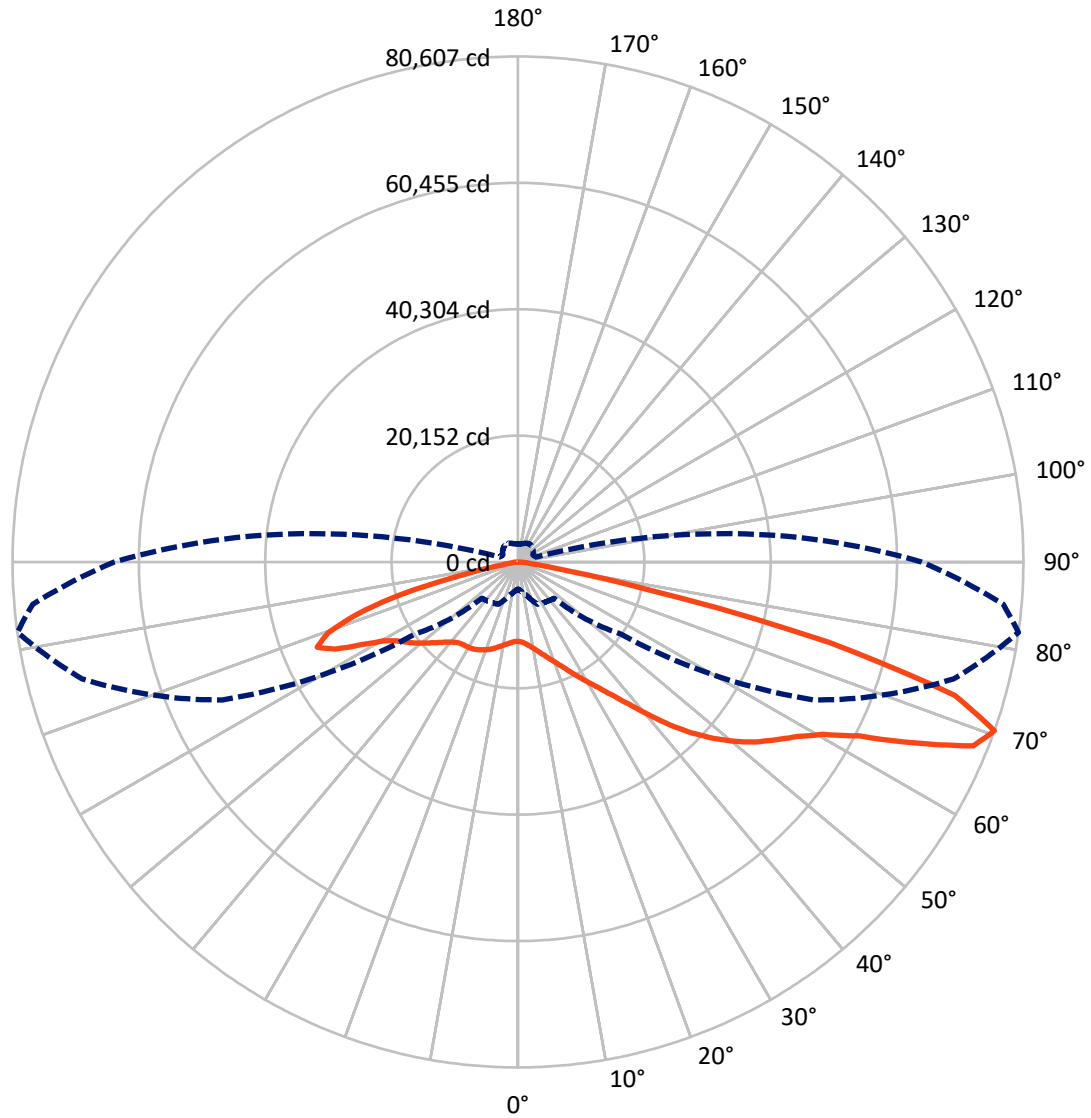
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	21264.7	0.0	21264.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	64993.3	0.0	64993.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	86258.0	0.0	86258.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1194.1	1.4
10°-20°	3430.6	4.0
20°-30°	5739.0	6.7
30°-40°	8965.8	10.4
40°-50°	14279.1	16.6
50°-60°	19871.2	23.0
60°-70°	20786.1	24.1
70°-80°	10864.0	12.6
80°-90°	1128.1	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°	86258.0	100.0
0°-180°	86258.0	100.0

**Coefficient of Utilization**



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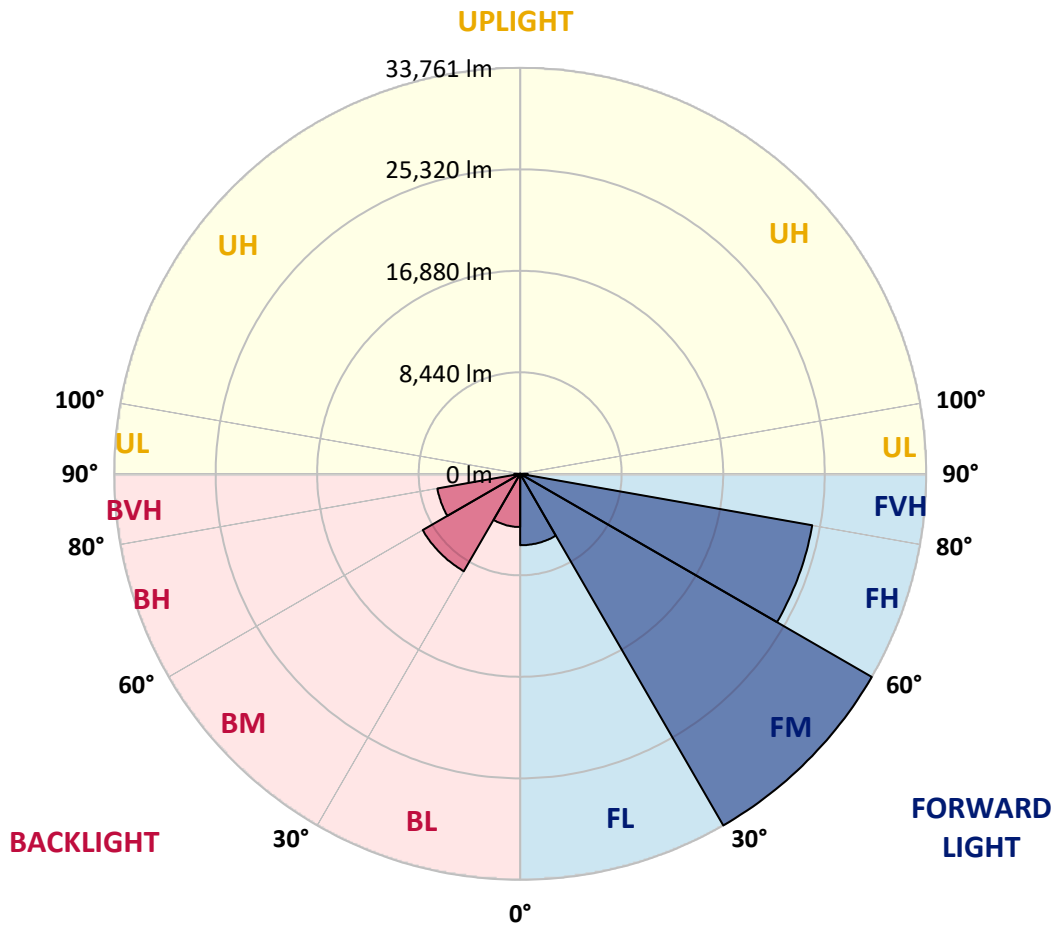
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5939.8	6.9			
FM (30°-60°)	33760.5	39.1			
FH (60°-80°)	24661.4	28.6			G5
FVH (80°-90°)	631.5	0.7			G4/750
BL (0°-30°)	4423.8	5.1	B4/5000		
BM (30°-60°)	9355.6	10.8	B5		
BH (60°-80°)	6988.7	8.1	B5		G5
BVH (80°-90°)	496.6	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°	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5
2.5°	12948.6	13021.8	12998.9	12976.1	12976.1	12944.0	12939.4	12893.7	12857.0	12797.5
5°	13113.4	13191.2	13182.0	13200.3	13259.8	13273.6	13287.3	13259.8	13186.6	13113.4
7.5°	12966.9	13053.9	13081.3	13191.2	13374.3	13539.0	13662.6	13713.0	13644.3	13539.0
10°	12472.6	12568.7	12664.8	12925.7	13250.7	13639.7	13969.3	14166.1	14152.4	14051.7
12.5°	11470.2	11570.9	11776.9	12284.9	12879.9	13566.5	14179.8	14591.8	14733.7	14660.4
15°	10669.2	10756.2	10911.8	11433.6	12207.1	13250.7	14257.6	15058.6	15420.2	15379.0
17.5°	10646.3	10682.9	10779.0	11026.2	11621.2	12756.4	14175.2	15516.3	16207.5	16202.9
20°	11049.1	11062.8	11117.8	11168.1	11506.8	12381.0	13964.7	15896.2	17090.9	17090.9
22.5°	11607.5	11598.3	11653.3	11607.5	11772.3	12349.0	13832.0	16230.4	18074.9	18148.2
25°	12445.1	12399.3	12385.6	12280.3	12312.4	12646.5	13978.4	16610.3	19242.1	19393.1
27.5°	13561.9	13488.7	13438.3	13195.8	13113.4	13259.8	14427.0	17068.0	20542.0	20802.9
30°	15017.4	14884.7	14811.5	14390.4	14092.9	14115.7	15104.4	17676.7	21901.4	22322.5
32.5°	17003.9	16797.9	16601.1	15910.0	15365.3	15186.8	15978.6	18518.9	23375.2	24048.0
35°	19228.4	19063.6	18853.0	17786.6	16949.0	16537.0	17159.5	19695.2	25100.8	26167.2
37.5°	21370.4	21228.5	21329.2	19892.0	18811.8	18212.2	18706.6	21274.3	27229.1	28803.6
40°	23585.7	23475.9	23489.6	22116.5	20857.8	20185.0	20583.2	23256.2	29668.7	31938.9
42.5°	25993.3	25910.9	25636.3	24418.8	23004.5	22377.4	22743.6	25544.7	32286.8	35509.1
45°	28689.2	28638.9	28382.5	26986.5	25366.2	24661.4	25155.7	28071.3	34918.6	38868.7
47.5°	31018.9	31060.1	31028.1	29851.8	28172.0	27137.6	27728.0	30707.7	37367.4	42026.8
50°	32140.3	32355.5	32671.3	32305.1	31261.5	30208.8	30323.2	33252.6	39701.7	44988.2
52.5°	31554.5	31961.8	32822.3	33408.2	33811.0	33591.3	33284.6	35779.1	41898.7	47661.2
55°	29371.2	29943.3	31371.4	32785.7	34840.8	36438.2	36841.0	38580.3	44040.8	50013.9
57.5°	25393.7	26322.8	27604.4	30465.1	33925.4	37815.9	40987.8	42466.2	46311.0	52526.7
60°	18573.8	19818.8	21411.6	25668.3	30721.4	37079.0	44516.8	48434.8	49537.9	55781.0
62.5°	11886.7	12655.7	14120.3	18129.9	23938.2	33302.9	45597.0	55895.4	55007.5	61117.9
65°	8138.1	8632.4	9973.5	12225.4	15475.1	24789.5	42704.3	61488.6	63694.8	69576.4
67.5°	5913.6	6288.9	7433.2	9405.9	10083.3	14669.6	33138.1	61232.3	72139.5	78291.1
70°	4311.6	4577.1	5538.3	7433.2	7758.2	8161.0	20075.1	52050.7	71956.4	80607.1
72.5°	3194.8	3377.9	4023.3	5767.1	6279.8	5510.8	9936.9	37829.7	61831.9	72908.5
75°	2311.4	2448.7	2924.8	4412.3	5025.6	4197.2	4957.0	22107.3	43129.9	51286.3
77.5°	1766.8	1872.0	2183.3	3231.4	4023.3	3149.0	3075.8	10170.3	20450.4	20551.1
80°	1418.9	1487.6	1656.9	2274.8	3085.0	2357.2	2004.8	4105.7	6462.9	5469.6
82.5°	1043.6	1158.0	1400.6	1597.4	2206.2	1624.9	1222.1	2073.4	2457.9	2114.6
85°	595.0	672.8	846.8	1144.3	1409.7	993.2	700.3	920.0	1144.3	938.3
87.5°	210.5	274.6	297.5	448.6	613.3	411.9	270.0	265.5	375.3	279.2
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°
12646.5	0°	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5	12646.5
12783.8	2.5°	12738.0	12715.2	12623.6	12500.0	12371.9	12248.3	12207.1	12120.1	12060.6	12028.6
13081.3	5°	12994.4	12921.1	12706.0	12431.4	12143.0	11831.8	11612.1	11410.7	11264.2	11126.9
13488.7	7.5°	13360.5	13232.4	12861.6	12381.0	11868.4	11351.2	10966.7	10673.8	10477.0	10348.8
13964.7	10°	13786.2	13589.4	13021.8	12303.2	11511.4	10769.9	10316.8	10065.0	9941.4	9872.8
14509.4	12.5°	14275.9	13996.7	13186.6	12124.7	10966.7	10119.9	9808.7	9735.5	9740.0	9744.6
15195.9	15°	14880.1	14491.1	13319.3	11735.7	10257.3	9621.0	9566.1	9685.1	9808.7	9868.2
15974.0	17.5°	15562.1	15012.9	13342.2	11094.9	9561.5	9300.6	9474.6	9730.9	9918.6	10000.9
16843.7	20°	16294.4	15543.8	13177.4	10188.6	8989.4	9039.8	9351.0	9680.5	9886.5	9991.8
17836.9	22.5°	17132.1	16111.4	12783.8	9236.6	8522.5	8756.0	9122.1	9442.5	9657.7	9762.9
19004.1	25°	18088.7	16747.6	12165.9	8435.6	8119.8	8435.6	8801.7	9067.2	9241.1	9337.3
20308.6	27.5°	19150.5	17411.3	11342.0	7799.4	7767.3	8106.0	8408.1	8614.1	8705.6	8778.9
21695.4	30°	20217.0	18015.4	10344.2	7318.8	7460.7	7781.1	7996.2	8087.7	8115.2	8128.9
23242.5	32.5°	21370.4	18537.2	9296.1	6920.6	7167.7	7465.2	7593.4	7634.6	7506.4	7419.5
25119.1	35°	22766.4	19095.6	8270.8	6604.7	6879.4	7135.7	7176.9	7140.3	6989.2	6810.7
27471.7	37.5°	24492.0	19791.3	7451.5	6380.5	6609.3	6778.7	6728.3	6719.2	6732.9	6522.4
30300.3	40°	26606.6	20697.6	6851.9	6206.5	6389.6	6426.2	6284.3	6362.2	6430.8	6110.4
33403.6	42.5°	28954.7	21791.5	6472.0	6087.5	6206.5	6119.6	5899.9	5986.8	5977.7	5556.6
36520.6	45°	31348.5	22981.6	6339.3	6000.6	6037.2	5863.3	5620.7	5643.6	5451.3	5071.4
39509.4	47.5°	33728.6	24258.6	6421.7	5927.3	5826.6	5629.8	5442.2	5341.5	5057.7	4773.9
42374.7	50°	36062.9	25599.7	6723.7	5780.9	5538.3	5423.9	5286.5	5108.0	4805.9	4563.4
45084.3	52.5°	38227.9	26949.9	7062.5	5538.3	5176.7	5245.3	5158.4	4952.4	4654.9	4407.7
47647.5	55°	40278.4	28300.2	7195.2	5204.2	4838.0	5089.7	5039.4	4659.5	4302.5	4101.1
50329.7	57.5°	42512.0	29925.0	7048.7	4778.5	4563.4	4911.2	4719.0	4297.9	4091.9	3940.9
53822.0	60°	45606.1	32474.5	6732.9	4252.1	4302.5	4645.7	4316.2	4142.3	3918.0	3748.6
59058.2	62.5°	50746.2	37230.1	6224.8	3730.3	3995.8	4252.1	4124.0	3950.0	3721.2	3556.4
68011.0	65°	58344.2	43839.4	5268.2	3323.0	3652.5	3867.6	3918.0	3744.1	3506.1	3332.1
75856.1	67.5°	64752.1	47986.2	3986.6	2984.3	3300.1	3556.4	3698.3	3528.9	3277.2	3107.8
77691.5	70°	64399.7	44974.5	3043.8	2650.1	2988.8	3249.7	3432.8	3300.1	3030.0	2869.8
70569.6	72.5°	57199.9	37623.7	2462.5	2311.4	2673.0	2929.3	3149.0	3048.3	2773.7	2618.1
51698.2	75°	42022.3	26707.3	1968.1	1968.1	2279.4	2595.2	2837.8	2773.7	2522.0	2412.1
21704.6	77.5°	17713.3	11204.7	1542.5	1634.0	1894.9	2229.0	2531.1	2554.0	2334.3	2471.6
5739.7	80°	4709.8	3089.5	1176.3	1286.2	1487.6	1840.0	2201.6	2192.4	1954.4	1826.3
2132.9	82.5°	1794.2	1217.5	837.6	906.3	1075.6	1409.7	1743.9	1798.8	1560.8	1350.2
837.6	85°	691.1	521.8	517.2	544.7	627.1	933.7	1318.2	1364.0	1176.3	997.8
233.4	87.5°	178.5	155.6	192.2	183.1	288.4	498.9	755.2	782.7	718.6	416.5
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°  
12646.5  
12065.2  
11181.8  
10376.3  
9891.1  
9753.8  
9863.6  
10019.3  
10019.3  
9790.4  
9364.7  
8806.3  
8161.0  
7446.9  
6819.9  
6536.1  
6119.6  
5552.0  
5085.1  
4773.9  
4545.1  
4412.3  
4082.8  
3927.1  
3739.5  
3556.4  
3341.3  
3112.4  
2883.6  
2618.1  
2380.1  
2242.8  
1698.1  
1350.2  
1029.8  
595.0  
0.0

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