

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: P942735

Luminaire Tested: **GALN-SB6D-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942735  
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-SB6D-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 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: 58485 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

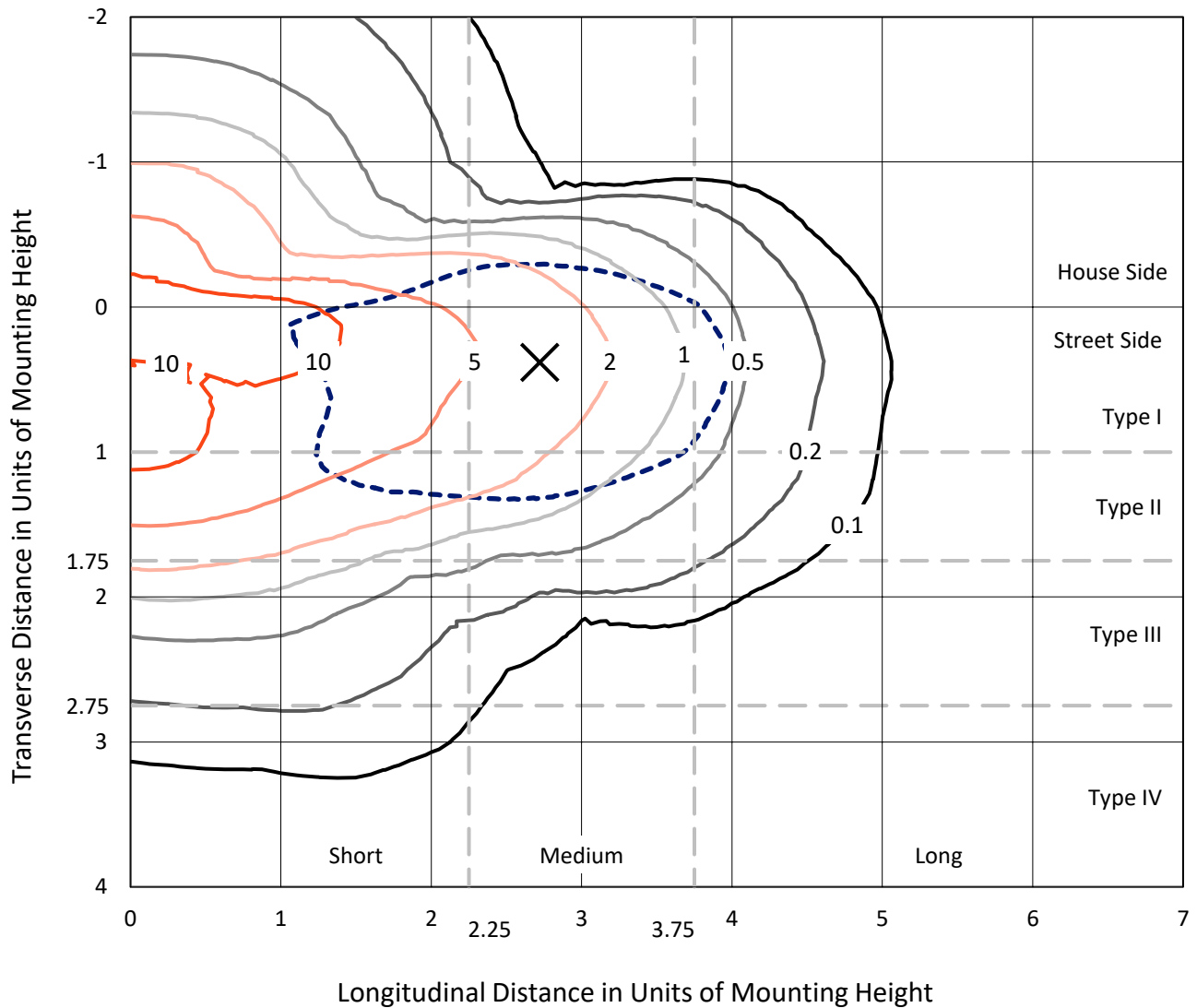
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

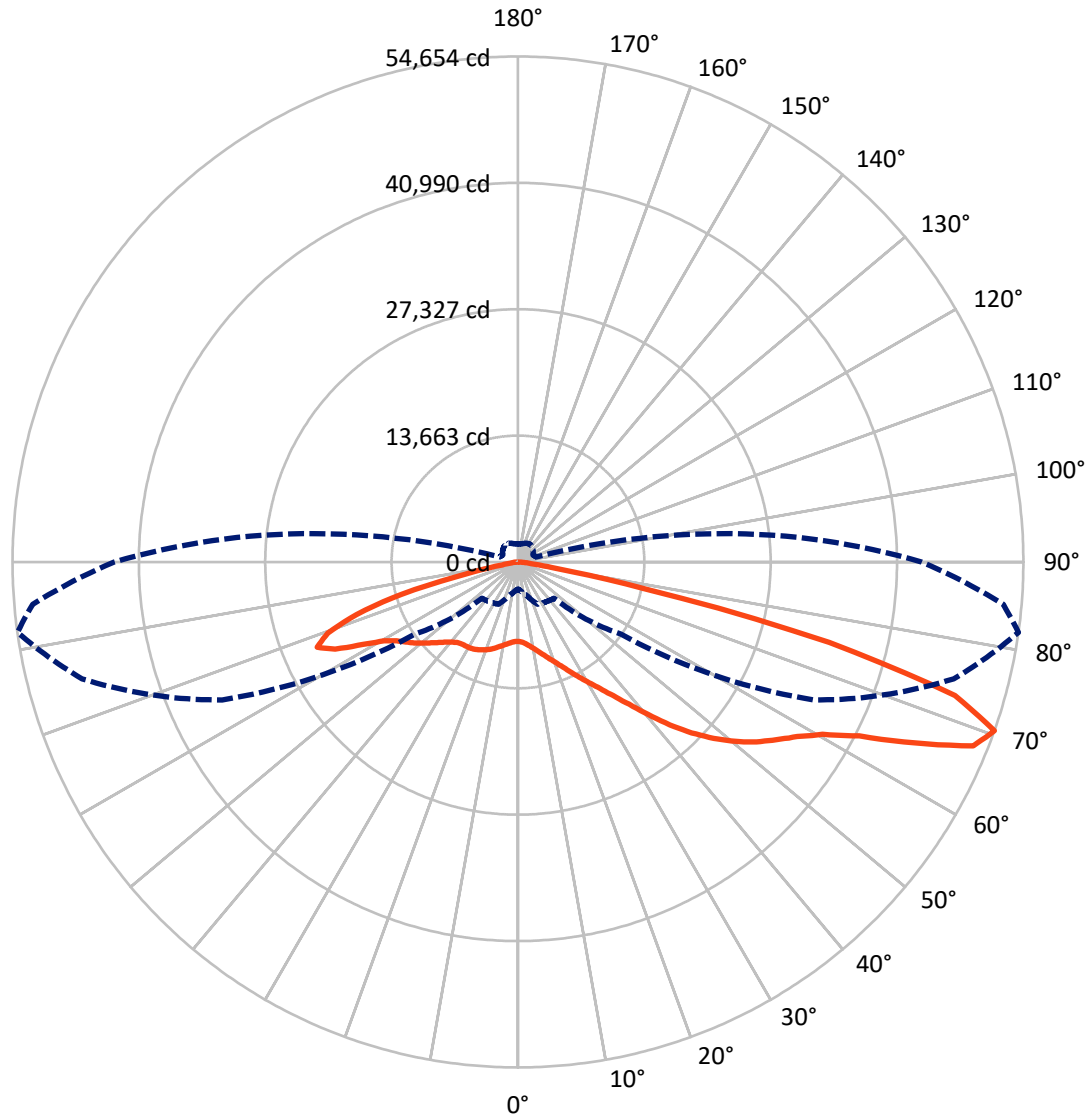
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	14418.0	0.0	14418.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	44067.0	0.0	44067.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	58485.0	0.0	58485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.6	1.4
10°-20°	2326.0	4.0
20°-30°	3891.2	6.7
30°-40°	6079.1	10.4
40°-50°	9681.6	16.6
50°-60°	13473.1	23.0
60°-70°	14093.5	24.1
70°-80°	7366.0	12.6
80°-90°	764.9	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°	58485.0	100.0
0°-180°	58485.0	100.0

**Coefficient of Utilization**



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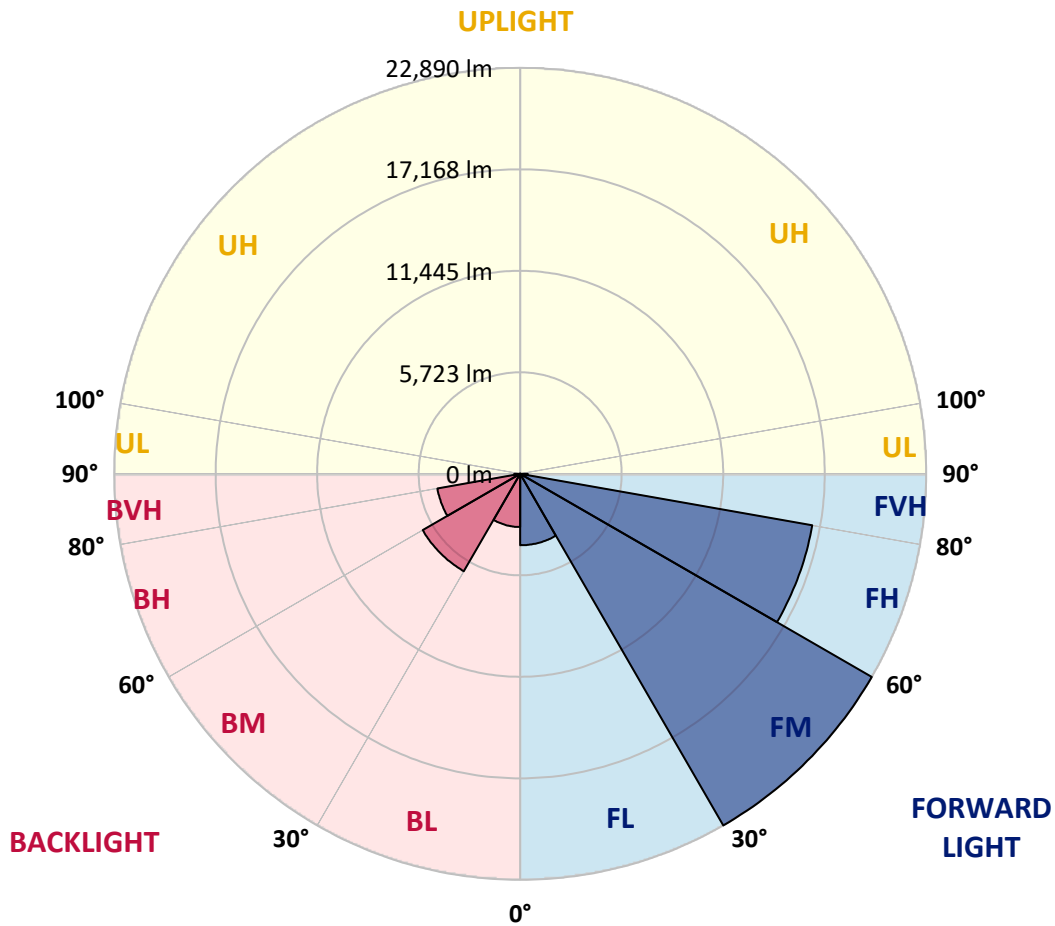
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4027.3	6.9			
FM (30°-60°)	22890.4	39.1			
FH (60°-80°)	16721.0	28.6			G5
FVH (80°-90°)	428.2	0.7			G3/500
BL (0°-30°)	2999.5	5.1	B4/5000		
BM (30°-60°)	6343.3	10.8	B4/8500		
BH (60°-80°)	4738.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	336.7	0.6			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°	82°
0°	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6
2.5°	8779.5	8829.1	8813.6	8798.1	8798.1	8776.4	8773.2	8742.2	8717.4	8677.0
5°	8891.2	8943.9	8937.7	8950.1	8990.5	8999.8	9009.1	8990.5	8940.8	8891.2
7.5°	8791.9	8850.8	8869.5	8943.9	9068.1	9179.8	9263.6	9297.7	9251.2	9179.8
10°	8456.7	8521.9	8587.0	8763.9	8984.3	9248.1	9471.5	9605.0	9595.6	9527.4
12.5°	7777.1	7845.3	7985.0	8329.5	8732.9	9198.4	9614.3	9893.6	9989.8	9940.1
15°	7234.0	7292.9	7398.5	7752.2	8276.7	8984.3	9667.0	10210.1	10455.3	10427.3
17.5°	7218.5	7243.3	7308.5	7476.0	7879.5	8649.1	9611.2	10520.5	10989.1	10986.0
20°	7491.6	7500.9	7538.1	7572.2	7801.9	8394.6	9468.4	10778.0	11588.0	11588.0
22.5°	7870.2	7864.0	7901.2	7870.2	7981.9	8372.9	9378.4	11004.6	12255.2	12304.9
25°	8438.1	8407.0	8397.7	8326.4	8348.1	8574.6	9477.7	11262.2	13046.6	13149.0
27.5°	9195.3	9145.7	9111.5	8947.0	8891.2	8990.5	9781.8	11572.5	13928.0	14104.9
30°	10182.2	10092.2	10042.5	9757.0	9555.3	9570.8	10241.1	11985.2	14849.7	15135.2
32.5°	11529.0	11389.4	11256.0	10787.3	10418.0	10297.0	10833.9	12556.3	15848.9	16305.1
35°	13037.3	12925.6	12782.8	12059.7	11491.8	11212.5	11634.6	13353.8	17018.9	17742.0
37.5°	14489.7	14393.5	14461.7	13487.3	12754.9	12348.3	12683.5	14424.5	18462.0	19529.6
40°	15991.7	15917.2	15926.5	14995.5	14142.1	13685.9	13955.9	15768.3	20116.1	21655.4
42.5°	17624.1	17568.2	17382.0	16556.5	15597.6	15172.4	15420.7	17320.0	21891.2	24076.0
45°	19452.0	19417.8	19244.0	18297.5	17198.9	16721.0	17056.2	19033.0	23675.7	26353.9
47.5°	21031.6	21059.5	21037.8	20240.2	19101.3	18399.9	18800.3	20820.6	25336.0	28495.2
50°	21791.9	21937.8	22151.9	21903.6	21196.1	20482.3	20559.9	22546.0	26918.7	30503.1
52.5°	21394.7	21670.9	22254.3	22651.6	22924.7	22775.7	22567.8	24259.1	28408.3	32315.5
55°	19914.4	20302.3	21270.6	22229.5	23622.9	24706.0	24979.1	26158.4	29860.7	33910.6
57.5°	17217.5	17847.5	18716.5	20656.1	23002.2	25640.1	27790.7	28793.1	31400.0	35614.4
60°	12593.5	13437.6	14517.6	17403.7	20829.9	25140.5	30183.5	32839.9	33587.9	37820.9
62.5°	8059.5	8580.8	9573.9	12292.5	16230.7	22580.2	30915.8	37898.4	37296.4	41439.4
65°	5517.8	5853.0	6762.3	8289.1	10492.5	16807.9	28954.5	41690.8	43186.6	47174.4
67.5°	4009.6	4264.0	5039.9	6377.4	6836.7	9946.3	22468.5	41517.0	48912.3	53083.3
70°	2923.4	3103.4	3755.1	5039.9	5260.2	5533.3	13611.4	35291.6	48788.2	54653.6
72.5°	2166.2	2290.3	2727.9	3910.3	4257.8	3736.5	6737.4	25649.4	41923.5	49433.7
75°	1567.2	1660.3	1983.1	2991.7	3407.5	2845.8	3361.0	14989.3	29243.1	34773.3
77.5°	1197.9	1269.3	1480.3	2191.0	2727.9	2135.1	2085.5	6895.7	13865.9	13934.2
80°	962.0	1008.6	1123.4	1542.4	2091.7	1598.2	1359.3	2783.7	4382.0	3708.5
82.5°	707.6	785.2	949.6	1083.1	1495.8	1101.7	828.6	1405.8	1666.5	1433.8
85°	403.4	456.2	574.1	775.8	955.8	673.4	474.8	623.8	775.8	636.2
87.5°	142.8	186.2	201.7	304.1	415.9	279.3	183.1	180.0	254.5	189.3
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°
8574.6	0°	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6	8574.6
8667.7	2.5°	8636.7	8621.2	8559.1	8475.3	8388.4	8304.6	8276.7	8217.7	8177.4	8155.7
8869.5	5°	8810.5	8760.8	8615.0	8428.8	8233.3	8022.2	7873.3	7736.7	7637.4	7544.3
9145.7	7.5°	9058.8	8971.9	8720.5	8394.6	8047.1	7696.4	7435.7	7237.1	7103.6	7016.7
9468.4	10°	9347.4	9213.9	8829.1	8341.9	7805.0	7302.2	6995.0	6824.3	6740.5	6694.0
9837.7	12.5°	9679.4	9490.1	8940.8	8220.8	7435.7	6861.6	6650.5	6600.9	6604.0	6607.1
10303.2	15°	10089.1	9825.3	9030.8	7957.1	6954.7	6523.3	6486.1	6566.7	6650.5	6690.9
10830.8	17.5°	10551.5	10179.1	9046.3	7522.6	6483.0	6306.1	6424.0	6597.8	6725.0	6780.9
11420.4	20°	11048.0	10539.1	8934.6	6908.1	6095.0	6129.2	6340.2	6563.6	6703.3	6774.7
12093.9	22.5°	11615.9	10923.9	8667.7	6262.6	5778.5	5936.8	6185.0	6402.3	6548.1	6619.5
12885.2	25°	12264.5	11355.3	8248.8	5719.5	5505.4	5719.5	5967.8	6147.8	6265.7	6330.9
13769.7	27.5°	12984.5	11805.2	7690.2	5288.2	5266.4	5496.1	5700.9	5840.6	5902.6	5952.3
14710.0	30°	13707.6	12214.9	7013.6	4962.3	5058.5	5275.7	5421.6	5483.7	5502.3	5511.6
15759.0	32.5°	14489.7	12568.7	6303.0	4692.3	4859.9	5061.6	5148.5	5176.4	5089.5	5030.6
17031.3	35°	15436.2	12947.3	5607.8	4478.2	4664.4	4838.2	4866.1	4841.3	4738.9	4617.8
18626.5	37.5°	16606.2	13419.0	5052.3	4326.1	4481.3	4596.1	4562.0	4555.8	4565.1	4422.3
20544.4	40°	18039.9	14033.5	4645.8	4208.2	4332.3	4357.1	4260.9	4313.7	4360.2	4143.0
22648.4	42.5°	19632.0	14775.2	4388.2	4127.5	4208.2	4149.2	4000.3	4059.2	4053.0	3767.5
24761.8	45°	21255.0	15582.1	4298.2	4068.5	4093.4	3975.4	3810.9	3826.5	3696.1	3438.5
26788.4	47.5°	22868.8	16447.9	4354.0	4018.9	3950.6	3817.2	3689.9	3621.6	3429.2	3236.8
28731.1	50°	24451.5	17357.2	4558.9	3919.6	3755.1	3677.5	3584.4	3463.4	3258.5	3094.1
30568.3	52.5°	25919.4	18272.7	4788.5	3755.1	3509.9	3556.5	3497.5	3357.9	3156.1	2988.6
32306.2	55°	27309.7	19188.2	4878.5	3528.5	3280.3	3451.0	3416.8	3159.2	2917.2	2780.6
34124.7	57.5°	28824.2	20289.9	4779.2	3239.9	3094.1	3329.9	3199.6	2914.1	2774.4	2672.0
36492.6	60°	30922.1	22018.5	4565.1	2883.0	2917.2	3149.9	2926.5	2808.6	2656.5	2541.7
40042.9	62.5°	34407.1	25242.9	4220.6	2529.3	2709.2	2883.0	2796.1	2678.2	2523.0	2411.3
46113.1	65°	39558.8	29724.2	3572.0	2253.1	2476.5	2622.4	2656.5	2538.6	2377.2	2259.3
51432.3	67.5°	43903.5	32535.8	2703.0	2023.4	2237.5	2411.3	2507.5	2392.7	2222.0	2107.2
52676.7	70°	43664.5	30493.8	2063.7	1796.9	2026.5	2203.4	2327.5	2237.5	2054.4	1945.8
47847.9	72.5°	38782.9	25509.8	1669.6	1567.2	1812.4	1986.2	2135.1	2066.8	1880.6	1775.1
35052.7	75°	28492.1	18108.2	1334.5	1334.5	1545.5	1759.6	1924.1	1880.6	1710.0	1635.5
14716.2	77.5°	12010.1	7597.1	1045.8	1107.9	1284.8	1511.3	1716.2	1731.7	1582.7	1675.8
3891.6	80°	3193.4	2094.8	797.6	872.0	1008.6	1247.6	1492.7	1486.5	1325.1	1238.2
1446.2	82.5°	1216.5	825.5	567.9	614.5	729.3	955.8	1182.4	1219.6	1058.3	915.5
567.9	85°	468.6	353.8	350.7	369.3	425.2	633.1	893.8	924.8	797.6	676.5
158.3	87.5°	121.0	105.5	130.3	124.1	195.5	338.3	512.1	530.7	487.2	282.4
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°  
8574.6  
8180.5  
7581.6  
7035.4  
6706.4  
6613.3  
6687.8  
6793.3  
6793.3  
6638.1  
6349.5  
5970.9  
5533.3  
5049.2  
4624.0  
4431.6  
4149.2  
3764.4  
3447.9  
3236.8  
3081.7  
2991.7  
2768.2  
2662.7  
2535.5  
2411.3  
2265.5  
2110.3  
*1955.1*  
1775.1  
1613.8  
1520.7  
1151.4  
915.5  
698.3  
403.4  
0.0

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