

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: P944747

Luminaire Tested: **GALN-SB9D-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

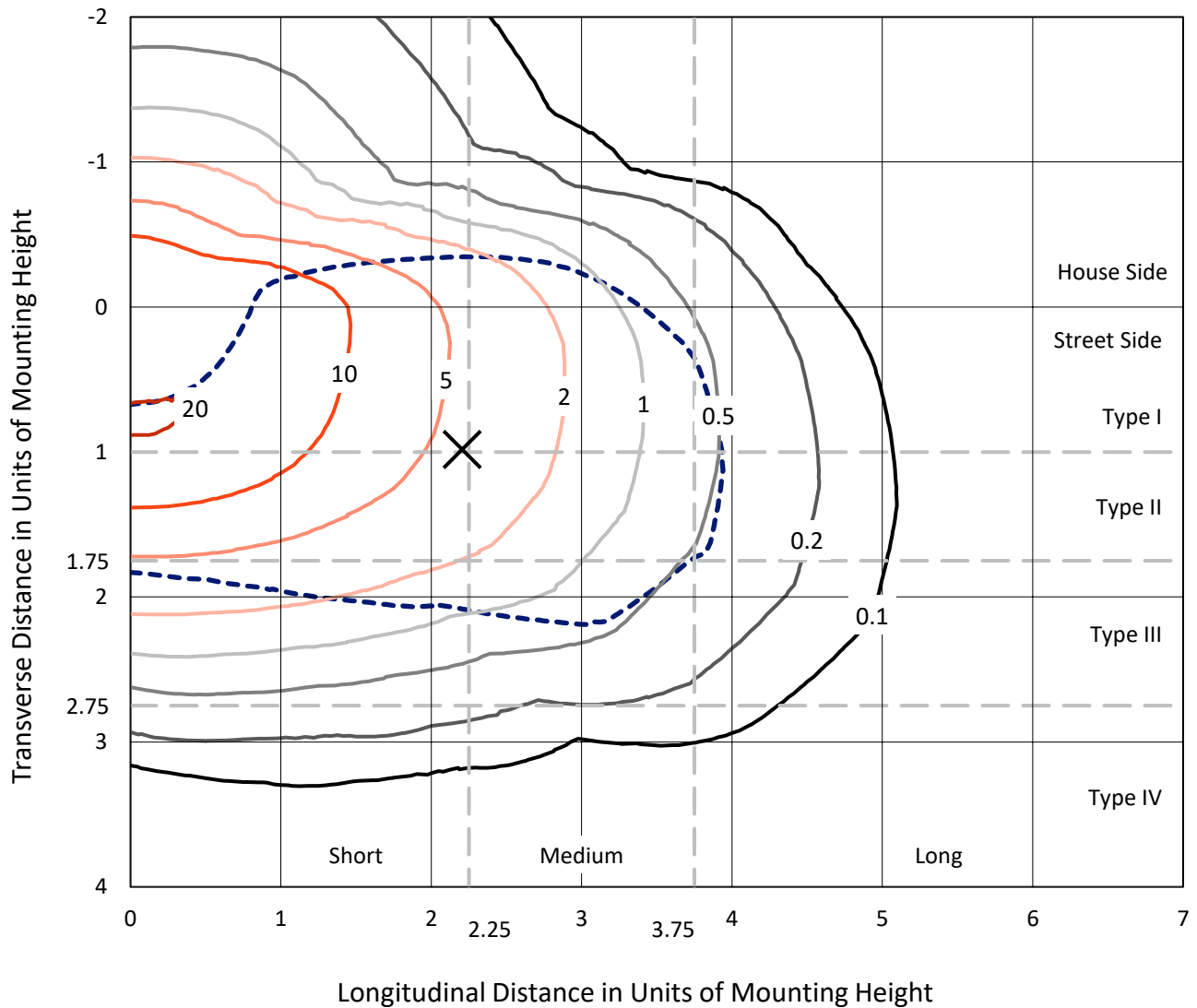
Lumens per Lamp: N/A  
Luminaire Lumens: 83340 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

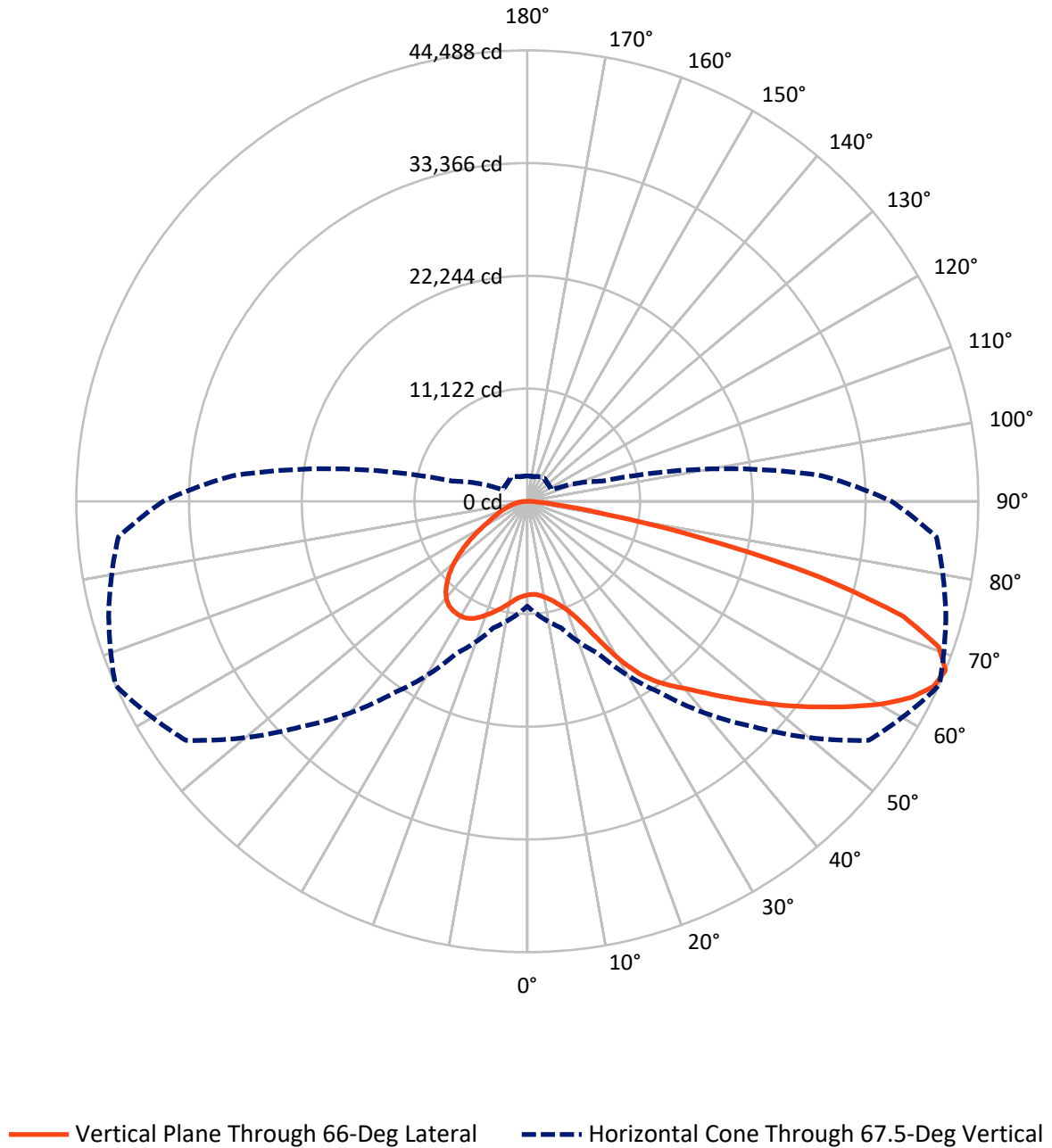
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20722.3	0.0	20722.3
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	62617.8	0.0	62617.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	83340.0	0.0	83340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.4	1.1
10°-20°	3027.8	3.6
20°-30°	5836.0	7.0
30°-40°	10232.7	12.3
40°-50°	15212.7	18.3
50°-60°	19283.5	23.1
60°-70°	18868.4	22.6
70°-80°	9000.4	10.8
80°-90°	961.9	1.2
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°	83340.0	100.0
0°-180°	83340.0	100.0

**Coefficient of Utilization**



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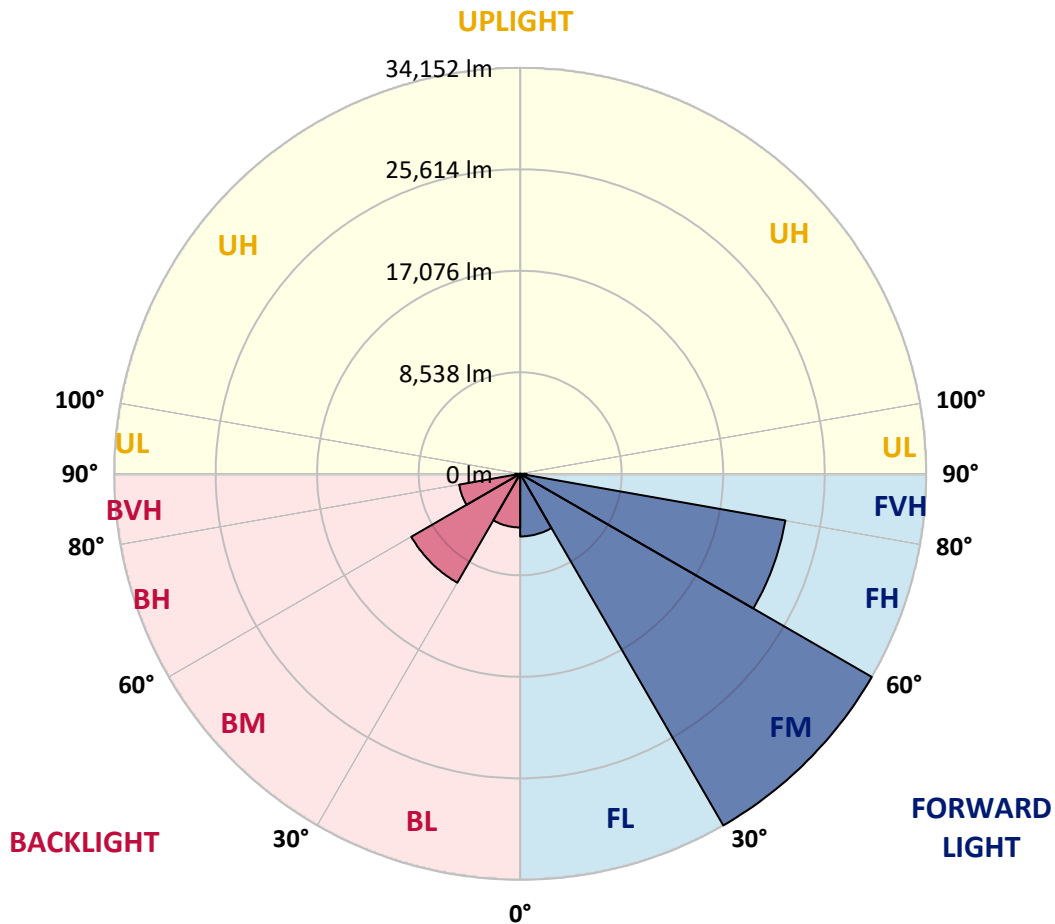
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5266.3	6.3			
FM (30°-60°)	34152.0	41.0			
FH (60°-80°)	22654.1	27.2			G5
FVH (80°-90°)	545.4	0.7			G4/750
BL (0°-30°)	4514.1	5.4	B4/5000		
BM (30°-60°)	10576.9	12.7	B5		
BH (60°-80°)	5214.8	6.3	B5		G5
BVH (80°-90°)	416.5	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5
2.5°	9147.2	9199.7	9186.6	9164.7	9160.3	9169.1	9182.2	9195.3	9191.0	9212.9
5°	9120.9	9173.4	9169.1	9169.1	9186.6	9221.6	9243.5	9265.4	9243.5	9269.8
7.5°	9138.4	9177.8	9195.3	9212.9	9256.6	9322.3	9374.9	9423.0	9396.8	9427.4
10°	9361.7	9392.4	9409.9	9409.9	9440.6	9515.0	9567.5	9655.1	9633.2	9681.4
12.5°	9769.0	9799.6	9799.6	9782.1	9804.0	9852.2	9869.7	9966.0	9926.6	10005.4
15°	10268.1	10329.4	10281.3	10250.6	10259.4	10307.5	10303.2	10377.6	10338.2	10403.9
17.5°	10819.9	10898.7	10819.9	10815.5	10798.0	10850.5	10854.9	10920.6	10850.5	10898.7
20°	11472.3	11581.8	11516.1	11538.0	11498.6	11520.4	11542.3	11638.7	11529.2	11564.2
22.5°	12391.8	12523.2	12453.1	12536.3	12510.0	12492.5	12488.1	12658.9	12488.1	12501.3
25°	13731.7	13889.3	13766.7	13880.6	13880.6	13937.5	14003.2	14222.1	13937.5	13854.3
27.5°	15710.9	15868.5	15627.7	15697.8	15675.9	15816.0	15745.9	16288.9	15982.4	15846.6
30°	18092.9	18373.2	17917.8	17900.3	17878.4	18101.7	18202.4	18561.5	18250.6	18114.8
32.5°	20667.6	20961.0	20418.0	20260.4	20177.2	20312.9	20229.8	20518.7	20304.2	20094.0
35°	23391.2	23680.2	23163.5	22857.0	22524.2	22239.6	21941.8	22016.3	21814.9	21495.2
37.5°	25965.9	26495.7	25948.4	25620.0	25006.9	24450.9	23618.9	23273.0	23084.7	22791.3
40°	28588.8	28890.9	28474.9	28194.7	27529.1	26657.7	25326.6	24595.3	24341.4	24056.8
42.5°	30519.8	30808.8	30585.5	30392.8	29871.7	28860.2	27139.4	26224.2	25856.4	25536.8
45°	32052.3	32266.9	32126.8	32196.8	31973.5	30992.7	29017.9	27971.4	27590.4	27200.7
47.5°	32669.7	32897.4	33120.7	33536.7	33917.7	33195.2	31036.5	29863.0	29460.1	29061.7
50°	32599.7	32831.7	33479.8	34364.3	35546.6	35305.7	33164.5	31877.2	31505.0	31049.6
52.5°	32039.2	32301.9	33133.9	34605.1	36488.0	36886.5	35332.0	33957.1	33606.8	33063.8
55°	30567.9	30725.6	31973.5	34057.8	36711.3	37989.9	37455.7	36172.7	35822.4	35064.9
57.5°	27840.0	28067.7	29884.9	32582.2	36150.8	38738.7	39321.0	38502.2	38165.0	37074.7
60°	24280.1	24643.5	26723.4	30103.8	34723.4	38734.3	41015.6	40792.3	40512.0	39053.9
62.5°	20251.6	20672.0	22673.1	26600.8	32227.5	37635.2	42075.3	42710.2	42565.7	40879.9
65°	15553.3	15842.3	17834.6	22068.8	28343.5	35275.1	42197.9	44019.4	44045.7	42267.9
67.5°	10355.7	11187.7	12917.3	16560.4	23141.6	31417.4	41120.7	44234.0	44487.9	42745.2
70°	5053.1	6147.7	7842.3	10762.9	16560.4	25501.7	38305.2	42473.7	43038.6	41352.8
72.5°	2097.4	2452.1	3376.0	5311.4	9506.2	17208.4	32647.8	37700.9	38747.4	36641.2
75°	1414.3	1532.6	1931.0	2723.6	4330.6	8486.0	23544.5	28111.5	29797.3	27673.6
77.5°	1090.3	1164.7	1405.6	1904.7	2574.7	3209.6	12602.0	16941.3	17812.7	16490.3
80°	858.2	915.2	1050.9	1388.1	1825.9	1716.5	4295.5	7675.9	8179.5	6861.5
82.5°	744.4	766.3	753.1	941.4	1212.9	1002.7	1410.0	2833.0	3126.4	2268.2
85°	538.6	599.9	626.2	582.4	643.7	507.9	578.0	1002.7	1103.4	985.2
87.5°	218.9	324.0	398.5	376.6	236.5	144.5	179.5	293.4	337.2	367.8
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°
9243.5	0°	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5	9243.5
9247.9	2.5°	9252.3	9282.9	9304.8	9331.1	9348.6	9374.9	9427.4	9458.1	9462.4	9484.3
9317.9	5°	9335.5	9379.2	9427.4	9497.5	9576.3	9642.0	9742.7	9812.7	9839.0	9860.9
9488.7	7.5°	9515.0	9576.3	9663.9	9786.5	9900.3	9987.9	10110.5	10193.7	10276.9	10307.5
9760.2	10°	9782.1	9869.7	9996.6	10163.0	10285.6	10399.5	10526.5	10596.5	10679.7	10714.8
10084.2	12.5°	10114.9	10206.8	10373.2	10605.3	10719.1	10798.0	10841.7	10824.2	10841.7	10872.4
10473.9	15°	10495.8	10596.5	10784.8	11034.4	11113.2	11043.2	10946.8	10859.3	10846.1	10854.9
10946.8	17.5°	10946.8	11021.3	11240.2	11450.4	11393.5	11104.5	10894.3	10754.2	10684.1	10662.2
11551.1	20°	11577.4	11577.4	11756.9	11888.3	11507.3	11016.9	10688.5	10460.8	10316.3	10255.0
12374.3	22.5°	12343.7	12273.6	12387.4	12295.5	11485.4	10771.7	10316.3	9922.2	9703.3	9615.7
13525.9	25°	13315.7	13232.5	13201.9	12632.6	11327.8	10382.0	9642.0	9164.7	8972.0	8923.9
15185.4	27.5°	14782.6	14572.4	14174.0	12816.6	11038.8	9769.0	8853.8	8411.5	8302.1	8306.5
17317.9	30°	16735.5	16315.2	15338.7	12847.2	10565.9	8902.0	8048.1	7732.8	7680.3	7702.2
19108.8	32.5°	18543.9	18145.5	16529.7	12707.1	9839.0	8052.5	7325.6	7115.4	7036.6	7062.9
20475.0	35°	19962.6	19853.2	17633.2	12510.0	8945.8	7255.6	6677.6	6498.0	6344.8	6309.8
21762.3	37.5°	21302.5	21258.8	18460.7	12234.2	8061.2	6690.7	6156.5	5920.0	5696.7	5574.1
23185.4	40°	22773.8	22730.0	19003.7	11809.4	7277.5	6200.3	5688.0	5377.1	5101.2	4877.9
24796.8	42.5°	24429.0	24170.6	19262.1	11200.8	6611.9	5784.3	5307.0	4886.7	4523.2	4317.4
26618.3	45°	26237.4	25655.0	19257.7	10425.8	6051.4	5403.4	4899.8	4304.3	3967.1	3774.5
28488.0	47.5°	28155.3	27073.7	19021.2	9567.5	5508.4	4983.0	4269.3	3813.9	3590.6	3472.3
30519.8	50°	30134.4	28400.5	18618.4	8582.3	4952.3	4505.7	3875.2	3564.3	3393.5	3284.1
32534.0	52.5°	31995.4	29604.6	18132.3	7465.7	4387.5	4041.6	3700.0	3459.2	3279.7	3157.1
34486.9	55°	33725.0	30642.4	17444.9	6322.9	3927.7	3730.7	3616.8	3415.4	3209.6	3065.1
36470.5	57.5°	35261.9	31316.7	16258.2	5250.1	3599.3	3516.1	3529.3	3341.0	3104.5	2981.9
38423.4	60°	36540.5	31811.5	14502.4	4256.1	3332.2	3305.9	3393.5	3200.9	2925.0	2784.9
40074.2	62.5°	37306.8	31802.7	12348.0	3485.5	3104.5	3113.3	3214.0	3025.7	2745.5	2614.1
40936.8	65°	37241.1	31023.3	9983.5	2981.9	2885.6	2894.3	3025.7	2833.0	2596.6	2517.8
40503.3	67.5°	35923.1	29123.0	7658.4	2653.5	2644.8	2684.2	2837.4	2701.7	2504.6	2495.9
37919.8	70°	32354.5	25177.7	5517.2	2390.8	2395.2	2452.1	2653.5	2618.5	2456.5	2474.0
31881.6	72.5°	25944.0	19196.4	3704.4	2114.9	2119.3	2211.3	2478.4	2552.8	2408.3	2640.4
22620.5	75°	17278.5	11971.5	2382.0	1821.6	1825.9	1944.2	2325.1	2425.8	2276.9	2631.6
11770.0	77.5°	8302.1	5381.5	1725.2	1532.6	1532.6	1642.0	2009.8	2171.9	1939.8	2044.9
3783.2	80°	2868.1	2023.0	1357.4	1234.8	1208.5	1283.0	1694.6	1882.9	1672.7	1541.3
1234.8	82.5°	1129.7	1050.9	1090.3	958.9	871.4	919.5	1318.0	1554.5	1230.4	1112.2
696.2	85°	648.1	683.1	770.7	634.9	503.6	564.9	967.7	1116.6	928.3	818.8
227.7	87.5°	175.1	240.8	354.7	328.4	227.7	240.8	459.8	617.4	534.2	411.6
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°  
9243.5  
9480.0  
9856.5  
10311.9  
10732.3  
10881.2  
10885.5  
10692.9  
10241.9  
9602.6  
8932.6  
8319.6  
7776.6  
7097.9  
6336.0  
5578.5  
4899.8  
4330.6  
3765.7  
3446.1  
3244.6  
3104.5  
3008.2  
2903.1  
2723.6  
2574.7  
2513.4  
*2509.0*  
2469.6  
2675.4  
2653.5  
1874.1  
1445.0  
1107.8  
836.3  
424.7  
0.0

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