

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: P944757

Luminaire Tested: **GALN-SB9D-835-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944757  
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-835-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

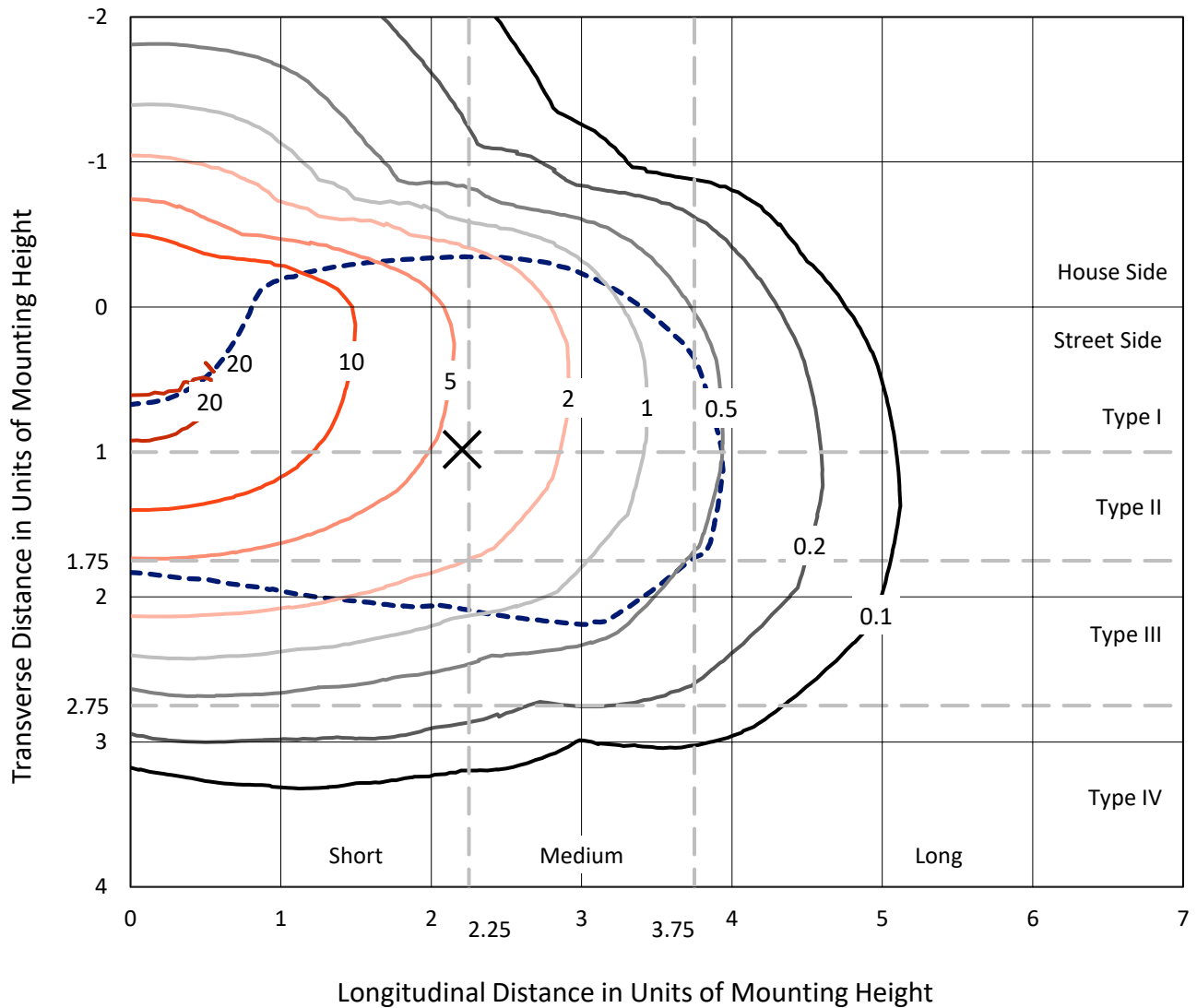
Lumens per Lamp: N/A  
Luminaire Lumens: 86029 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

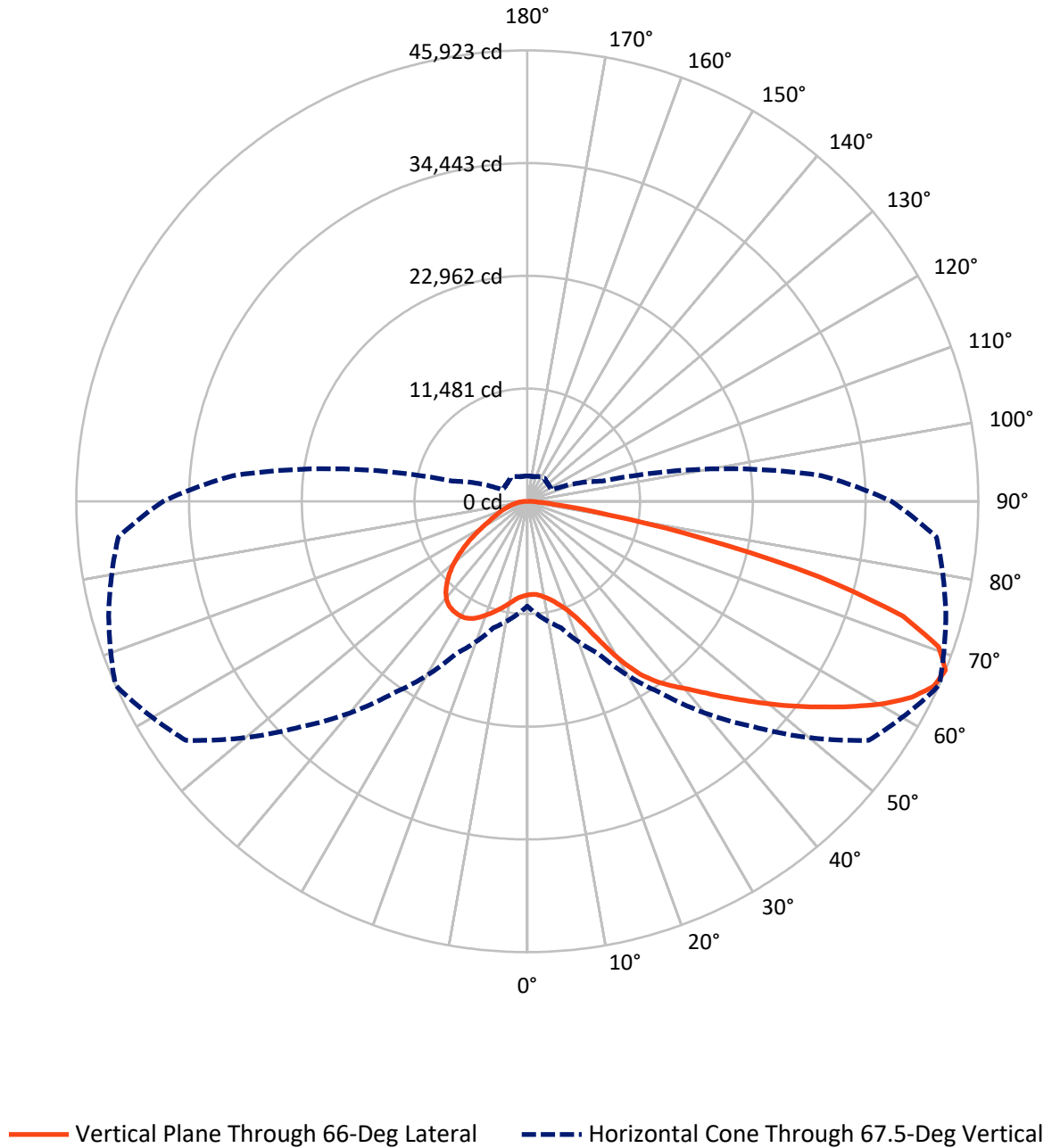
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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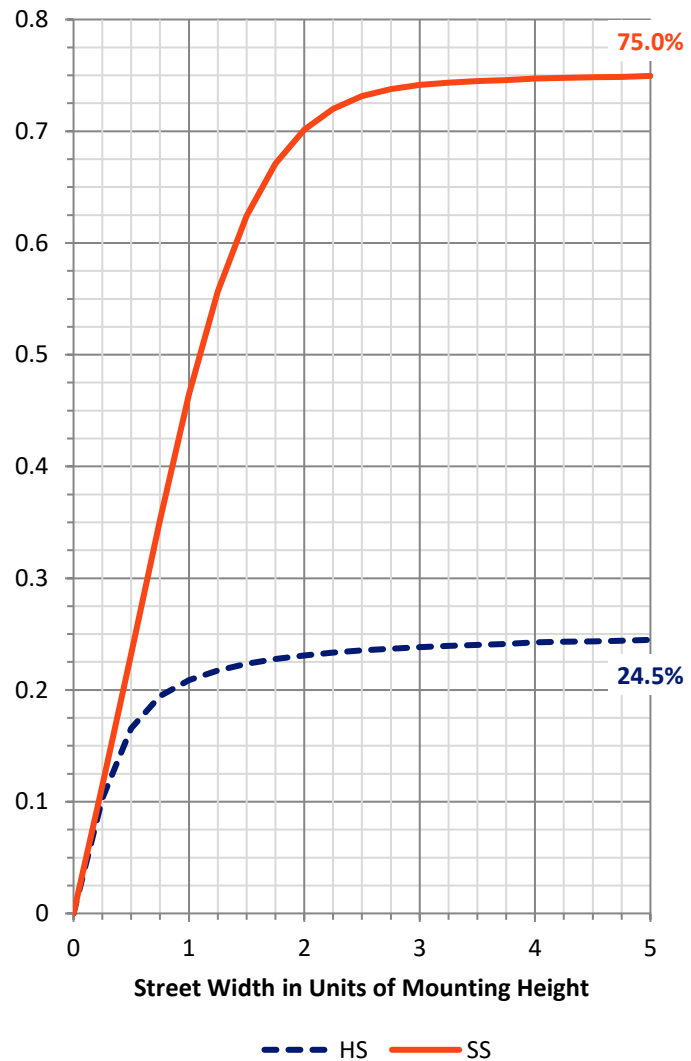
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21390.9	0.0	21390.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	64638.1	0.0	64638.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	86029.0	0.0	86029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	946.0	1.1
10°-20°	3125.5	3.6
20°-30°	6024.3	7.0
30°-40°	10562.9	12.3
40°-50°	15703.5	18.3
50°-60°	19905.7	23.1
60°-70°	19477.2	22.6
70°-80°	9290.8	10.8
80°-90°	992.9	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°	86029.0	100.0
0°-180°	86029.0	100.0

**Coefficient of Utilization**



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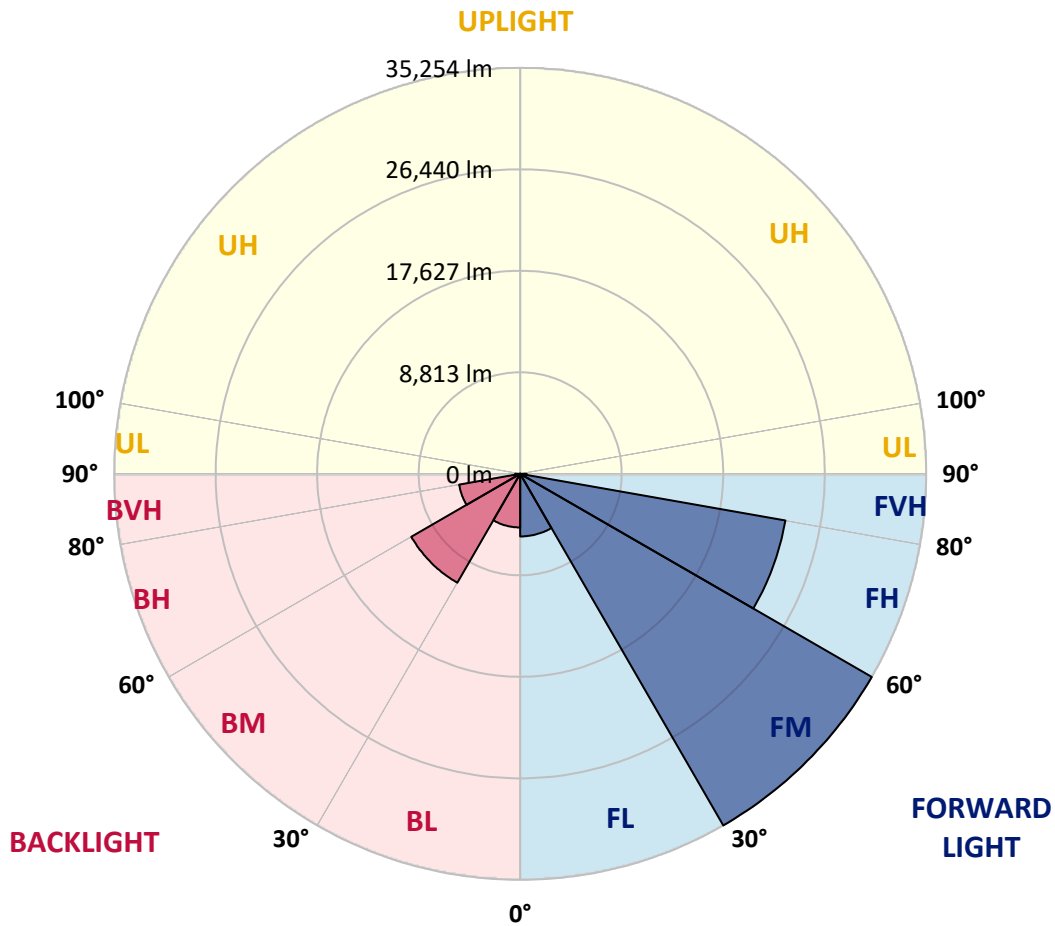
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5436.2	6.3			
FM (30°-60°)	35254.0	41.0			
FH (60°-80°)	23385.0	27.2			G5
FVH (80°-90°)	563.0	0.7			G4/750
BL (0°-30°)	4659.7	5.4	B4/5000		
BM (30°-60°)	10918.1	12.7	B5		
BH (60°-80°)	5383.0	6.3	B5		G5
BVH (80°-90°)	430.0	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°	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8
2.5°	9442.3	9496.6	9483.0	9460.4	9455.9	9464.9	9478.5	9492.0	9487.5	9510.1
5°	9415.2	9469.4	9464.9	9464.9	9483.0	9519.2	9541.8	9564.4	9541.8	9568.9
7.5°	9433.3	9474.0	9492.0	9510.1	9555.3	9623.1	9677.4	9727.1	9700.0	9731.6
10°	9663.8	9695.4	9713.5	9713.5	9745.2	9822.0	9876.2	9966.6	9944.0	9993.8
12.5°	10084.2	10115.8	10115.8	10097.7	10120.3	10170.0	10188.1	10287.6	10246.9	10328.2
15°	10599.4	10662.7	10613.0	10581.4	10590.4	10640.1	10635.6	10712.4	10671.8	10739.6
17.5°	11169.0	11250.3	11169.0	11164.4	11146.4	11200.6	11205.1	11272.9	11200.6	11250.3
20°	11842.4	11955.4	11887.6	11910.2	11869.6	11892.2	11914.8	12014.2	11901.2	11937.4
22.5°	12791.6	12927.2	12854.9	12940.8	12913.7	12895.6	12891.1	13067.4	12891.1	12904.6
25°	14174.8	14337.5	14210.9	14328.4	14328.4	14387.2	14455.0	14681.0	14387.2	14301.3
27.5°	16217.8	16380.5	16131.9	16204.3	16181.7	16326.3	16254.0	16814.5	16498.1	16357.9
30°	18676.7	18966.0	18495.9	18477.8	18455.2	18685.7	18789.7	19160.3	18839.4	18699.3
32.5°	21334.5	21637.3	21076.8	20914.1	20828.2	20968.4	20882.5	21180.8	20959.3	20742.4
35°	24145.9	24444.2	23910.9	23594.5	23251.0	22957.2	22649.8	22726.6	22518.7	22188.8
37.5°	26803.7	27350.6	26785.6	26446.6	25813.8	25239.8	24381.0	24023.9	23829.5	23526.7
40°	29511.2	29823.1	29393.7	29104.4	28417.3	27517.9	26143.8	25388.9	25126.8	24833.0
42.5°	31504.5	31802.8	31572.3	31373.4	30835.5	29791.4	28015.1	27070.4	26690.7	26360.7
45°	33086.5	33308.0	33163.4	33235.7	33005.2	31992.7	29954.1	28873.9	28480.6	28078.3
47.5°	33723.8	33958.9	34189.4	34618.8	35012.0	34266.2	32037.9	30826.5	30410.7	29999.3
50°	33651.5	33891.1	34560.0	35473.1	36693.5	36444.9	34234.6	32905.7	32521.5	32051.4
52.5°	33073.0	33344.2	34203.0	35721.7	37665.3	38076.6	36472.0	35052.7	34691.1	34130.6
55°	31554.2	31716.9	33005.2	35156.7	37895.8	39215.7	38664.2	37339.8	36978.2	36196.3
57.5°	28738.3	28973.3	30849.1	33633.4	37317.2	39988.6	40589.7	39744.5	39396.5	38271.0
60°	25063.5	25438.6	27585.7	31075.1	35843.7	39984.1	42339.0	42108.5	41819.2	40314.0
62.5°	20905.1	21339.0	23404.6	27459.1	33267.3	38849.5	43432.8	44088.2	43939.1	42198.9
65°	16055.1	16353.4	18410.0	22780.9	29258.1	36413.2	43559.4	45439.7	45466.8	43631.7
67.5°	10689.8	11548.6	13334.0	17094.7	23888.3	32431.1	42447.5	45661.2	45923.4	44124.4
70°	5216.1	6346.1	8095.3	11110.2	17094.7	26324.6	39541.1	43844.2	44427.2	42687.0
72.5°	2165.1	2531.2	3484.9	5482.8	9813.0	17763.7	33701.2	38917.3	39997.6	37823.5
75°	1460.0	1582.0	1993.3	2811.4	4470.3	8759.8	24304.1	29018.5	30758.7	28566.5
77.5°	1125.5	1202.3	1450.9	1966.2	2657.8	3313.2	13008.6	17487.9	18387.4	17022.4
80°	885.9	944.7	1084.8	1432.8	1884.8	1771.8	4434.1	7923.6	8443.4	7082.9
82.5°	768.4	791.0	777.4	971.8	1252.0	1035.1	1455.4	2924.5	3227.3	2341.4
85°	556.0	619.2	646.4	601.2	664.4	524.3	596.6	1035.1	1139.0	1017.0
87.5°	226.0	334.5	411.3	388.7	244.1	149.2	185.3	302.8	348.0	379.7
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°
9541.8	0°	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8	9541.8
9546.3	2.5°	9550.8	9582.4	9605.0	9632.2	9650.2	9677.4	9731.6	9763.2	9767.8	9790.4
9618.6	5°	9636.7	9681.9	9731.6	9803.9	9885.3	9953.1	10057.0	10129.4	10156.5	10179.1
9794.9	7.5°	9822.0	9885.3	9975.7	10102.2	10219.8	10310.2	10436.7	10522.6	10608.5	10640.1
10075.1	10°	10097.7	10188.1	10319.2	10491.0	10617.5	10735.0	10866.1	10938.4	11024.3	11060.5
10409.6	12.5°	10441.2	10536.2	10707.9	10947.5	11065.0	11146.4	11191.6	11173.5	11191.6	11223.2
10811.9	15°	10834.5	10938.4	11132.8	11390.4	11471.8	11399.5	11300.0	11209.6	11196.1	11205.1
11300.0	17.5°	11300.0	11376.9	11602.9	11819.8	11761.1	11462.8	11245.8	11101.2	11028.8	11006.2
11923.8	20°	11950.9	11950.9	12136.2	12271.8	11878.6	11372.4	11033.4	10798.3	10649.2	10585.9
12773.6	22.5°	12741.9	12669.6	12787.1	12692.2	11856.0	11119.2	10649.2	10242.4	10016.4	9926.0
13962.3	25°	13745.4	13659.5	13627.8	13040.2	11693.3	10717.0	9953.1	9460.4	9261.5	9211.8
15675.4	27.5°	15259.6	15042.6	14631.3	13230.1	11395.0	10084.2	9139.5	8683.0	8569.9	8574.5
17876.7	30°	17275.5	16841.6	15833.6	13261.7	10906.8	9189.2	8307.8	7982.3	7928.1	7950.7
19725.3	32.5°	19142.3	18730.9	17063.1	13117.1	10156.5	8312.3	7562.0	7345.0	7263.7	7290.8
21135.6	35°	20606.8	20493.8	18202.1	12913.7	9234.4	7489.7	6893.0	6707.7	6549.5	6513.3
22464.5	37.5°	21989.9	21944.7	19056.4	12628.9	8321.3	6906.6	6355.1	6111.1	5880.5	5754.0
23933.5	40°	23508.6	23463.4	19616.9	12190.5	7512.3	6400.3	5871.5	5550.6	5265.8	5035.3
25596.8	42.5°	25217.2	24950.5	19883.5	11562.2	6825.2	5970.9	5478.3	5044.3	4669.2	4456.7
27477.2	45°	27083.9	26482.8	19879.0	10762.2	6246.7	5577.7	5057.9	4443.2	4095.1	3896.3
29407.2	47.5°	29063.7	27947.3	19634.9	9876.2	5686.2	5143.8	4407.0	3936.9	3706.4	3584.4
31504.5	50°	31106.7	29316.8	19219.1	8859.2	5112.1	4651.1	4000.2	3679.3	3503.0	3390.0
33583.7	52.5°	33027.8	30559.8	18717.4	7706.6	4529.1	4172.0	3819.4	3570.8	3385.5	3258.9
35599.6	55°	34813.2	31631.1	18007.7	6526.9	4054.5	3851.1	3733.5	3525.6	3313.2	3164.0
37647.2	57.5°	36399.7	32327.2	16782.8	5419.5	3715.5	3629.6	3643.1	3448.8	3204.7	3078.1
39663.1	60°	37719.5	32837.9	14970.3	4393.5	3439.7	3412.6	3503.0	3304.1	3019.4	2874.7
41367.2	62.5°	38510.5	32828.9	12746.4	3597.9	3204.7	3213.7	3317.7	3123.3	2834.0	2698.4
42257.6	65°	38442.7	32024.3	10305.6	3078.1	2978.7	2987.7	3123.3	2924.5	2680.4	2599.0
41810.1	67.5°	37082.2	30062.6	7905.5	2739.1	2730.1	2770.8	2929.0	2788.8	2585.4	2576.4
39143.3	70°	33398.4	25990.1	5695.2	2467.9	2472.4	2531.2	2739.1	2703.0	2535.7	2553.8
32910.2	72.5°	26781.1	19815.7	3823.9	2183.2	2187.7	2282.6	2558.3	2635.2	2486.0	2725.6
23350.4	75°	17836.0	12357.7	2458.9	1880.3	1884.8	2006.9	2400.1	2504.1	2350.4	2716.5
12149.8	77.5°	8569.9	5555.1	1780.9	1582.0	1582.0	1695.0	2074.7	2241.9	2002.4	2110.8
3905.3	80°	2960.6	2088.2	1401.2	1274.6	1247.5	1324.4	1749.2	1943.6	1726.6	1591.0
1274.6	82.5°	1166.2	1084.8	1125.5	989.9	899.5	949.2	1360.5	1604.6	1270.1	1148.1
718.7	85°	669.0	705.1	795.5	655.4	519.8	583.1	998.9	1152.6	958.2	845.2
235.0	87.5°	180.8	248.6	366.1	339.0	235.0	248.6	474.6	637.3	551.4	424.9
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°  
9541.8  
9785.8  
10174.6  
10644.6  
11078.6  
11232.2  
11236.8  
11037.9  
10572.3  
9912.4  
9220.8  
8588.0  
8027.5  
7326.9  
6540.5  
5758.5  
5057.9  
4470.3  
3887.2  
3557.3  
3349.3  
3204.7  
3105.3  
2996.8  
2811.4  
2657.8  
2594.5  
**2590.0**  
2549.3  
2761.7  
2739.1  
1934.6  
1491.6  
1143.6  
863.3  
438.4  
0.0

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