

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: P944789

Luminaire Tested: **GALN-SB9D-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55762 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

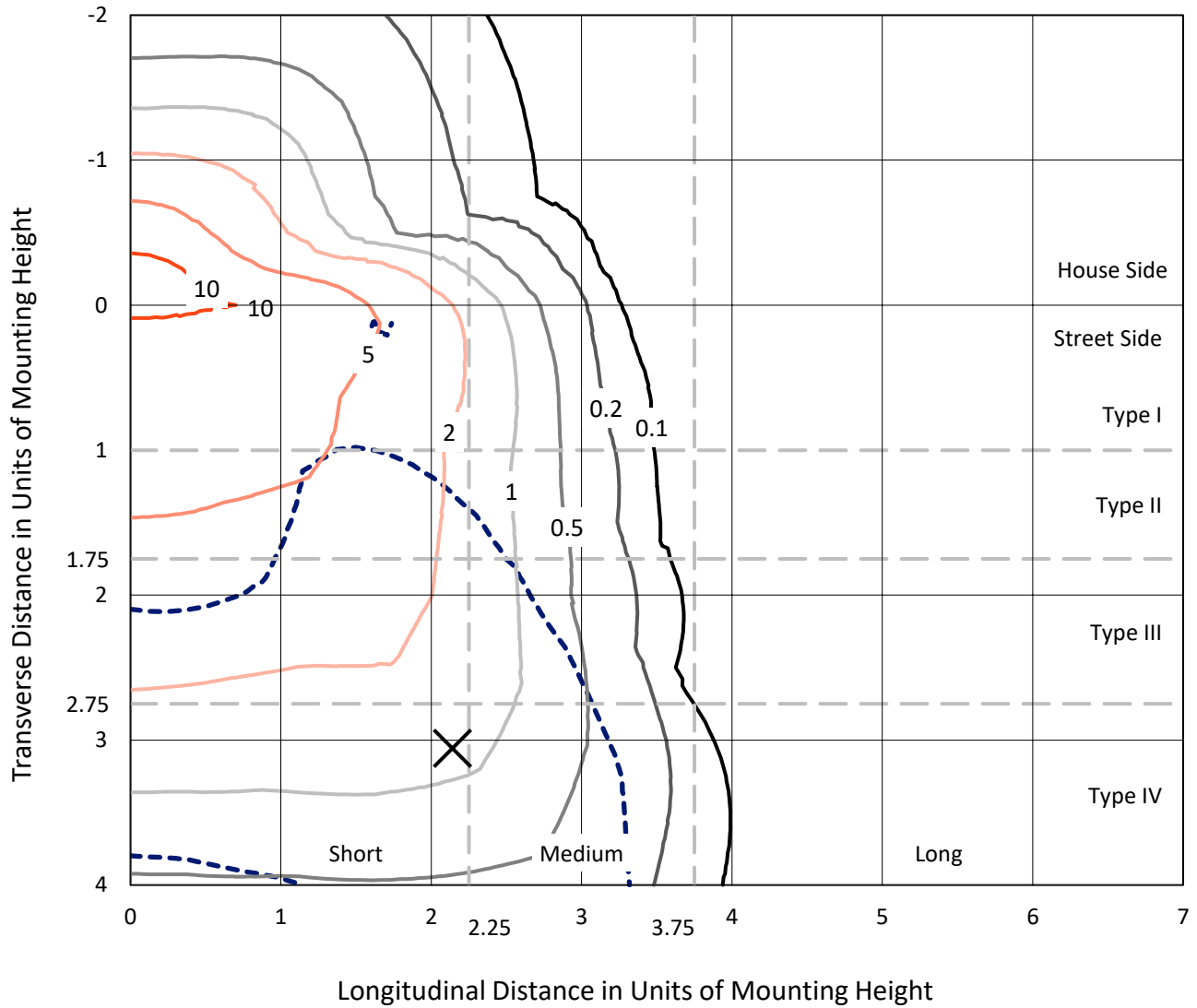
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

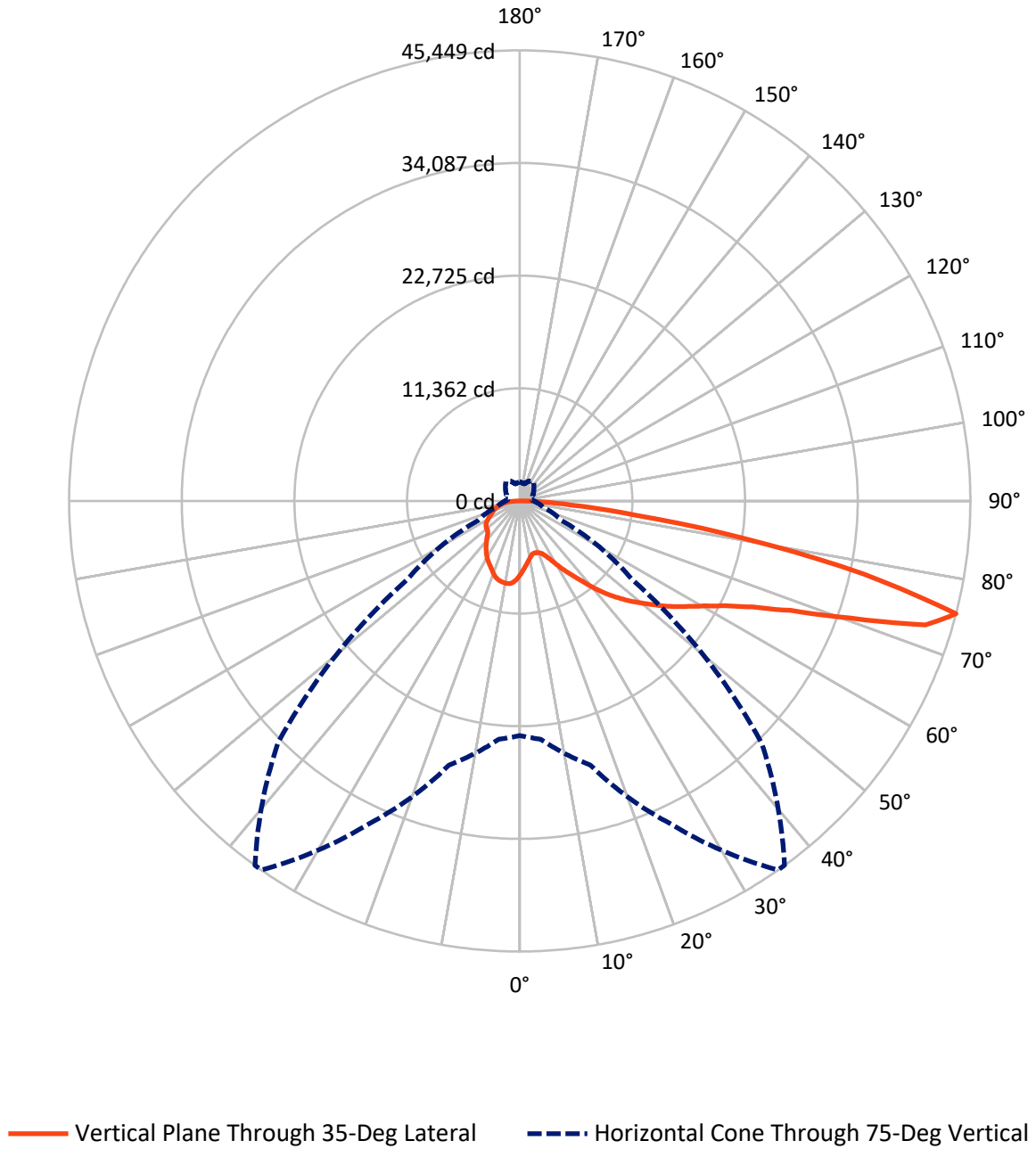
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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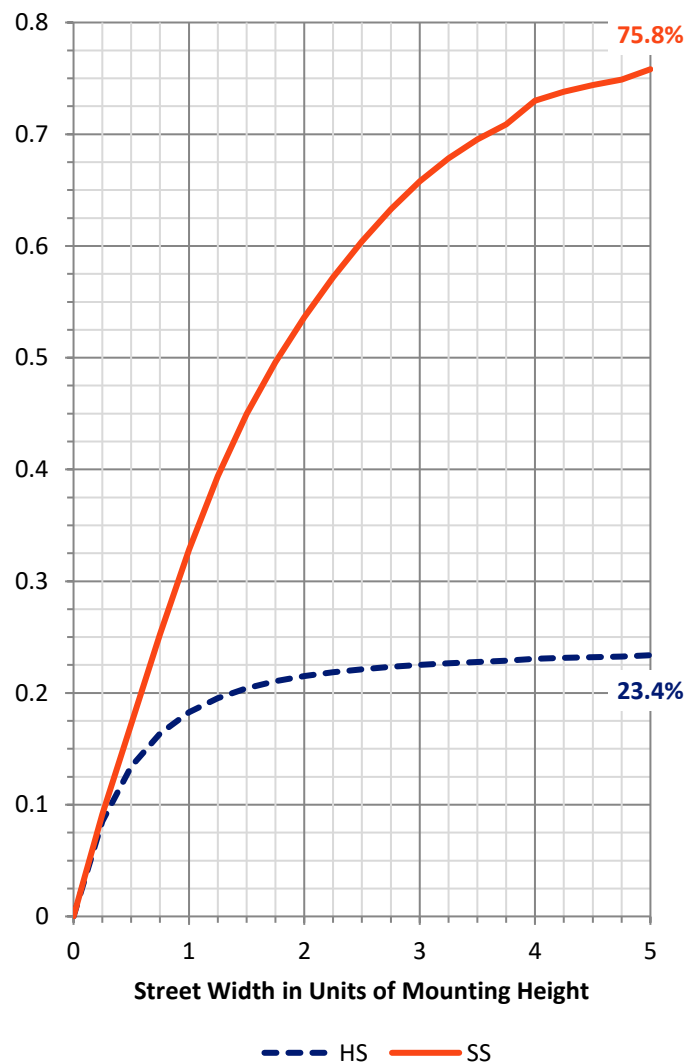
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13270.0	0.0	13270.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42492.0	0.0	42492.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	55762.0	0.0	55762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.5	1.3
10°-20°	2029.3	3.6
20°-30°	3407.7	6.1
30°-40°	5296.1	9.5
40°-50°	7860.8	14.1
50°-60°	10852.3	19.5
60°-70°	13166.3	23.6
70°-80°	10880.9	19.5
80°-90°	1565.0	2.8
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°	55762.0	100.0
0°-180°	55762.0	100.0

Coefficient of Utilization



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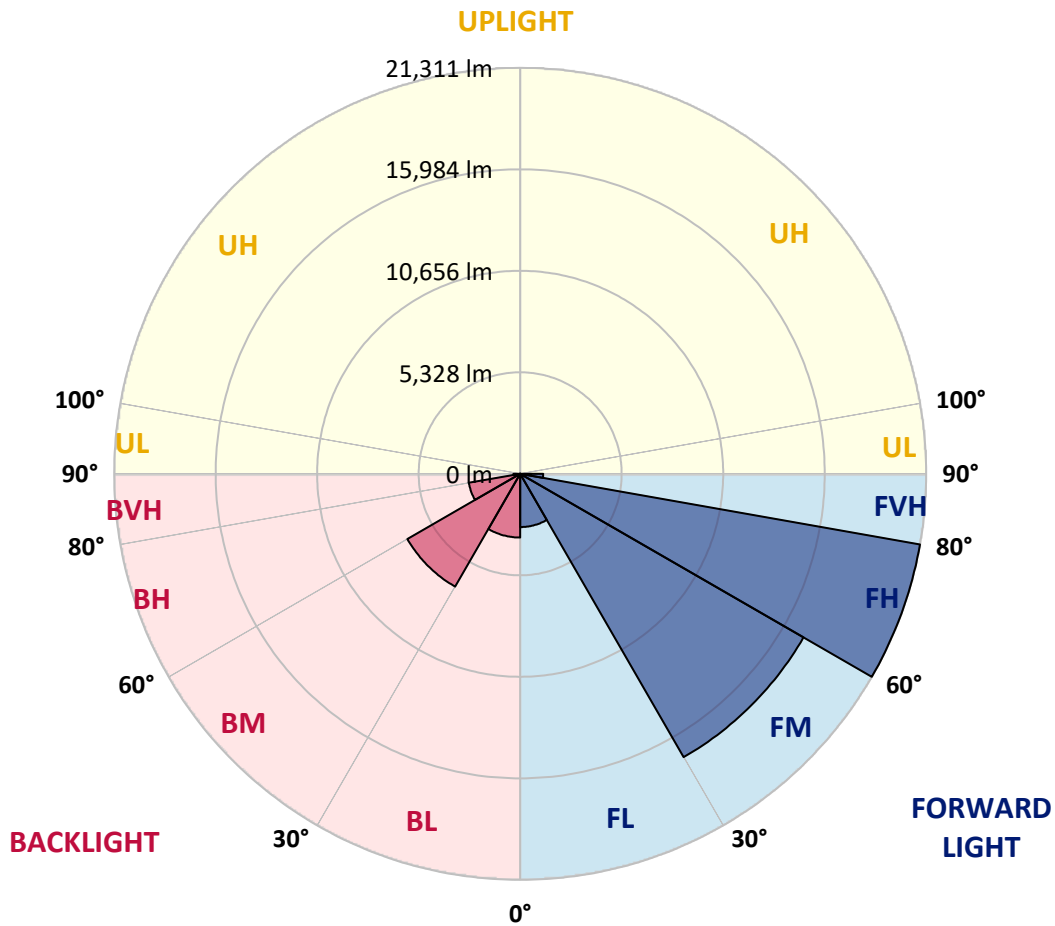
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.4	5.0			
FM (30°-60°)	17171.7	30.8			
FH (60°-80°)	21311.4	38.2			G5
FVH (80°-90°)	1212.6	2.2			G5
BL (0°-30°)	3344.2	6.0	B4/5000		
BM (30°-60°)	6837.5	12.3	B4/8500		
BH (60°-80°)	2735.9	4.9	B4/5000		G4/5000
BVH (80°-90°)	352.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7
2.5°	6851.9	6894.1	6912.2	6903.1	6948.3	6942.3	7005.6	7084.0	7192.5	7298.0
5°	6324.4	6369.6	6408.8	6444.9	6532.4	6559.5	6659.0	6809.7	7008.6	7210.6
7.5°	5833.0	5872.2	5932.5	5998.8	6146.5	6173.6	6339.4	6574.6	6851.9	7147.3
10°	5432.1	5471.3	5534.6	5609.9	5793.8	5827.0	6038.0	6351.5	6713.2	7087.0
12.5°	5260.2	5272.3	5308.5	5383.8	5543.6	5564.7	5796.8	6155.5	6577.6	7041.8
15°	5251.2	5275.3	5278.3	5317.5	5450.2	5459.2	5673.2	6028.9	6493.2	7032.8
17.5°	5341.6	5359.7	5332.6	5356.7	5468.2	5483.3	5652.1	5968.6	6466.0	7071.9
20°	5582.8	5597.9	5516.5	5483.3	5564.7	5576.8	5742.6	6007.8	6493.2	7153.3
22.5°	6095.3	6104.3	5905.3	5769.7	5775.7	5781.7	5926.4	6167.6	6598.7	7301.0
25°	6894.1	6888.1	6571.5	6309.3	6158.6	6125.4	6221.9	6426.8	6776.5	7497.0
27.5°	7828.6	7783.4	7466.8	7075.0	6746.4	6698.1	6677.0	6764.5	7029.7	7756.2
30°	8883.6	8841.4	8500.8	7988.3	7533.2	7454.8	7255.8	7210.6	7406.5	8108.9
32.5°	10041.2	10014.1	9607.1	8986.1	8377.2	8286.8	7952.2	7831.6	7985.3	8642.5
35°	11011.9	10987.7	10650.1	10011.0	9266.5	9154.9	8814.3	8678.7	8757.0	9326.8
37.5°	11889.1	11877.0	11587.6	11084.2	10315.5	10179.9	9797.0	9751.8	9736.7	10228.1
40°	12703.0	12672.8	12371.4	12106.1	11536.4	11412.8	11075.2	11036.0	10921.4	11337.4
42.5°	13604.3	13525.9	13088.8	12965.2	12811.5	12709.0	12507.0	12513.1	12259.8	12588.4
45°	14339.8	14294.6	13845.5	13773.1	13938.9	13896.7	14071.5	14116.8	13625.4	13899.7
47.5°	15129.6	15087.4	14707.6	14656.3	15105.5	15117.6	15735.5	15750.6	14957.8	15262.3
50°	16103.3	16043.0	15666.2	15729.5	16232.9	16278.1	17408.6	17306.1	16184.7	16645.9
52.5°	16745.4	16781.5	16700.2	16802.6	17489.9	17532.1	19054.5	18792.2	17399.5	18011.4
55°	17218.6	17291.0	17544.2	17779.3	18816.3	18858.5	20606.9	20206.0	18406.3	19277.5
57.5°	17827.6	17725.1	18198.3	18656.5	20076.4	20187.9	22117.2	21568.5	19298.6	20368.8
60°	18701.8	18629.4	18997.2	19675.4	21487.1	21665.0	23714.8	22795.4	19952.8	21233.9
62.5°	20474.3	20293.4	20350.7	20950.6	23265.7	23500.8	25517.5	23865.5	20278.3	21571.5
65°	23124.0	22813.5	22524.1	22940.1	25770.7	26002.8	27552.2	24706.6	20157.7	20917.4
67.5°	26461.0	26153.5	25797.8	26189.7	29460.4	29644.3	30063.3	25179.9	19208.2	18397.3
70°	29213.2	29098.7	29523.7	31136.4	35353.7	35359.7	33282.7	24788.0	16606.7	13043.6
72.5°	28848.5	28779.1	31018.9	36004.8	42781.3	42621.6	36330.4	21821.7	11186.7	5884.2
75°	23666.6	24115.7	27585.4	35917.4	45449.1	45428.0	34464.4	13872.6	4627.2	2438.7
77.5°	12690.9	13402.3	17909.0	26518.3	35480.3	36013.8	24230.3	4853.3	1986.5	1561.5
80°	4138.9	4759.8	7138.3	13501.8	23054.7	22955.2	10384.8	1905.1	1359.5	1106.3
82.5°	1757.4	1829.8	3189.3	6375.6	11831.8	11647.9	3306.9	1094.3	955.6	756.6
85°	687.3	768.7	1407.8	2948.1	5124.6	5013.1	1193.7	542.6	611.9	494.4
87.5°	226.1	274.3	503.4	1009.8	1594.7	1537.4	292.4	186.9	265.3	226.1
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°
7430.7	0°	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7	7430.7
7451.8	2.5°	7494.0	7542.2	7599.5	7683.9	7756.2	7816.5	7879.8	7919.0	7934.1	7979.3
7463.8	5°	7548.2	7653.7	7795.4	7934.1	8069.7	8151.1	8223.5	8259.6	8292.8	8316.9
7497.0	7.5°	7638.7	7774.3	7997.4	8178.3	8292.8	8359.1	8407.4	8395.3	8407.4	8413.4
7533.2	10°	7717.0	7906.9	8172.2	8344.0	8431.5	8434.5	8422.4	8380.2	8359.1	8362.1
7587.4	12.5°	7810.5	8021.5	8307.9	8452.6	8476.7	8410.4	8359.1	8286.8	8259.6	8247.6
7668.8	15°	7937.1	8178.3	8455.6	8509.8	8449.6	8365.1	8277.7	8160.2	8099.9	8051.6
7807.5	17.5°	8090.8	8356.1	8570.1	8530.9	8401.3	8262.7	8121.0	7943.1	7819.5	7768.3
7997.4	20°	8304.9	8543.0	8657.6	8485.7	8289.8	8078.8	7837.6	7620.6	7506.0	7454.8
8238.5	22.5°	8564.1	8793.2	8742.0	8407.4	8130.0	7792.4	7491.0	7331.2	7273.9	7237.7
8549.0	25°	8874.6	9070.5	8802.2	8292.8	7867.8	7412.6	7180.5	7129.2	7102.1	7075.0
8928.9	27.5°	9278.5	9384.0	8847.5	8124.0	7457.8	7008.6	6924.2	6933.3	6924.2	6879.0
9456.4	30°	9812.1	9791.0	8889.7	7849.7	6987.5	6643.9	6649.9	6689.1	6695.1	6665.0
10191.9	32.5°	10514.5	10300.4	8910.8	7494.0	6538.4	6324.4	6330.4	6372.6	6402.7	6351.5
11153.5	35°	11364.5	10894.3	8877.6	7047.8	6191.7	6019.9	5974.7	5986.7	5995.8	5947.5
12320.1	37.5°	12356.3	11560.5	8729.9	6553.5	5905.3	5721.5	5625.0	5543.6	5495.4	5450.2
13640.5	40°	13444.5	12287.0	8458.6	6071.1	5585.8	5404.9	5260.2	5106.5	4943.7	4883.4
15039.2	42.5°	14584.0	13034.6	8130.0	5609.9	5218.0	5070.3	4916.6	4693.5	4449.4	4325.8
16492.2	45°	15765.7	13800.2	7807.5	5154.7	4841.2	4777.9	4600.1	4331.8	4066.5	3909.8
17948.1	47.5°	16923.2	14523.7	7334.2	4696.5	4488.5	4557.9	4419.2	4172.0	3876.6	3629.4
19392.1	50°	18029.5	15202.0	6559.5	4232.3	4202.2	4491.6	4358.9	4003.2	3665.6	3349.1
20808.9	52.5°	19126.8	15750.6	5567.7	3810.3	4048.4	4473.5	4280.5	3888.7	3475.7	3144.1
22141.3	55°	20058.3	16034.0	4612.1	3448.6	3825.4	4319.7	4187.1	3753.0	3207.4	2854.7
23054.7	57.5°	20588.8	15804.9	3816.3	3092.8	3517.9	4066.5	4027.3	3463.6	2887.9	2616.6
23232.5	60°	20359.7	14876.4	3165.2	2782.4	3225.5	3792.2	3750.0	3177.2	2643.7	2387.5
22279.9	62.5°	19096.7	13106.9	2649.7	2511.1	2960.2	3511.9	3472.7	2957.2	2456.8	2209.6
19750.8	65°	16552.4	10662.2	2248.8	2285.0	2691.9	3174.2	3231.5	2773.3	2309.1	2067.9
15280.3	67.5°	12624.6	7723.1	1935.3	2089.0	2429.7	2842.6	3008.4	2640.7	2185.5	1956.4
8841.4	70°	7195.5	4386.1	1670.0	1899.1	2197.5	2535.2	2836.6	2535.2	2052.9	1862.9
3312.9	72.5°	2728.1	2013.7	1443.9	1709.2	1974.5	2275.9	2646.7	2369.4	1899.1	1757.4
1712.2	75°	1456.0	1226.9	1214.8	1486.1	1718.2	2022.7	2408.6	2206.6	1784.6	1856.9
1184.7	77.5°	991.8	868.2	1015.9	1272.1	1437.9	1742.4	2155.3	1959.4	1546.4	1540.4
819.9	80°	687.3	615.0	826.0	1024.9	1112.3	1465.0	1881.0	1682.1	1260.0	1175.6
506.4	82.5°	413.0	400.9	618.0	765.7	786.8	1130.4	1558.5	1410.8	1030.9	898.3
301.4	85°	226.1	238.1	394.9	449.2	458.2	789.8	1220.9	1091.2	792.8	666.2
108.5	87.5°	63.3	81.4	144.7	177.9	220.1	410.0	726.5	648.1	397.9	277.3
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°
7430.7
7976.3
8322.9
8422.4
8368.2
8241.6
8066.7
7771.3
7448.8
7243.8
7075.0
6888.1
6680.1
6375.6
5980.7
5480.3
4910.6
4340.8
3897.7
3602.3
3321.9
3107.9
2824.6
2580.4
2351.3
2170.4
2028.7
1920.2
1838.8
1733.3
1917.2
1419.8
1124.4
904.3
672.2
277.3
0.0

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