

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: P957173

Luminaire Tested: **GALN-SB9C-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64118 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

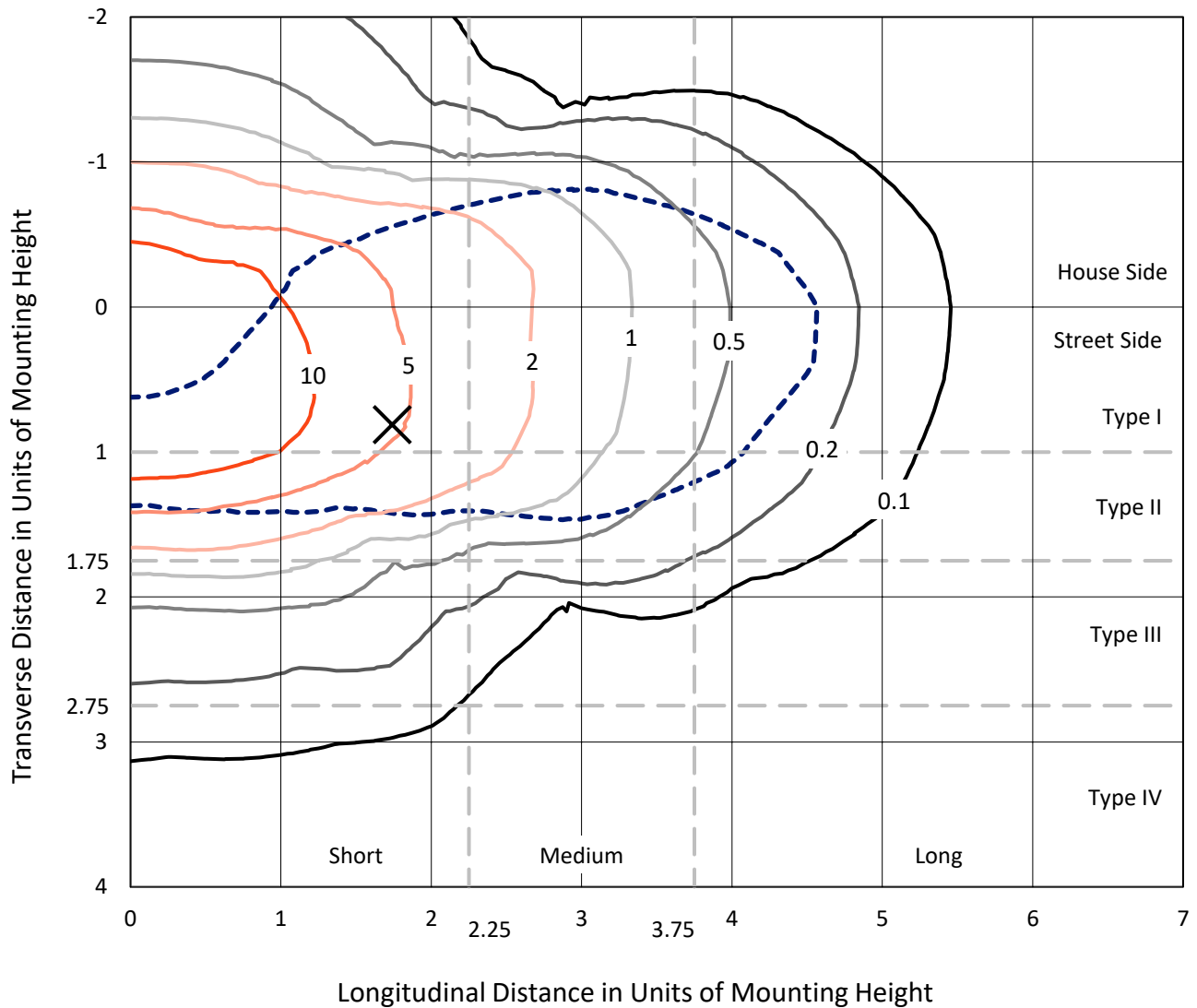
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

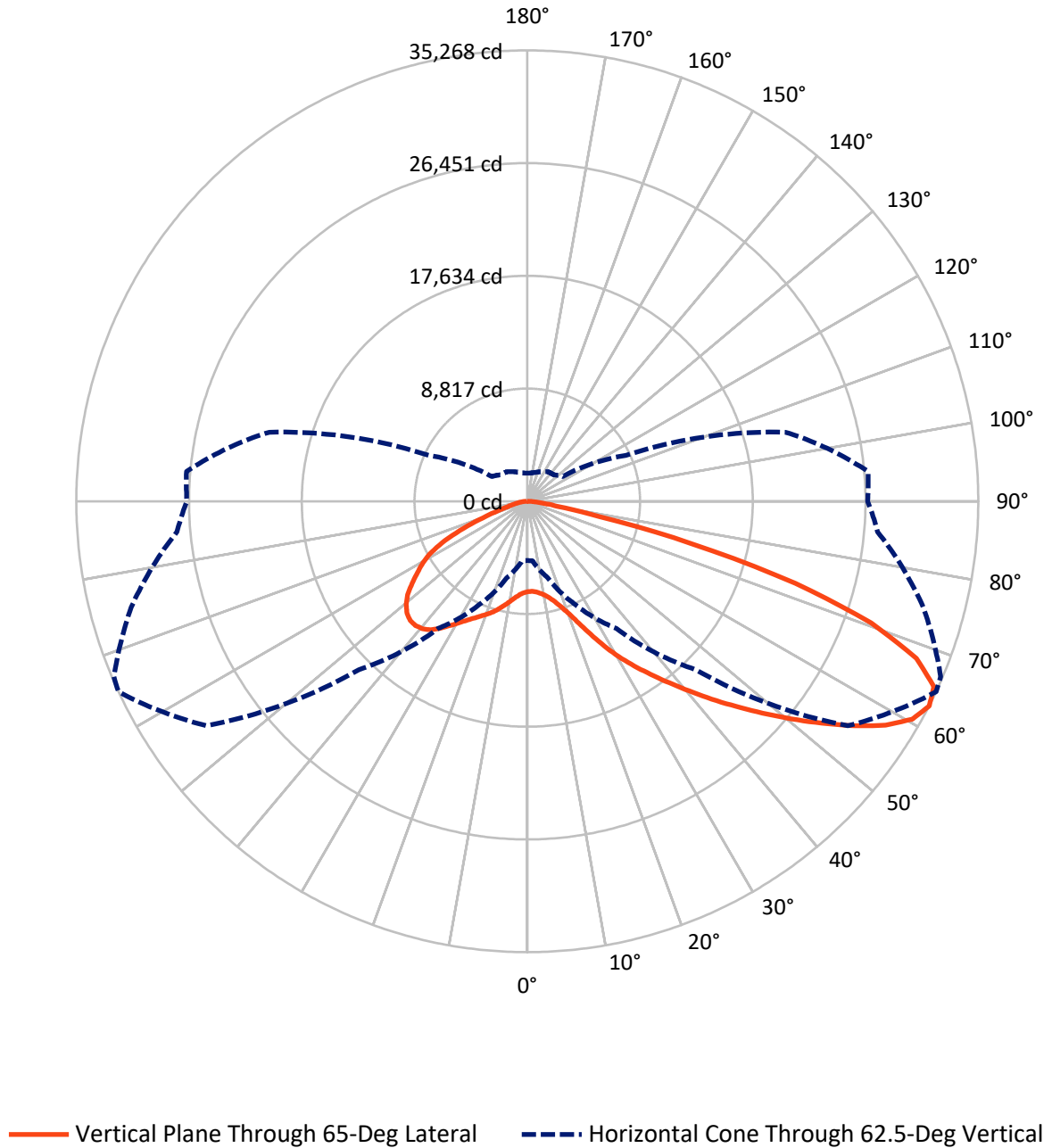
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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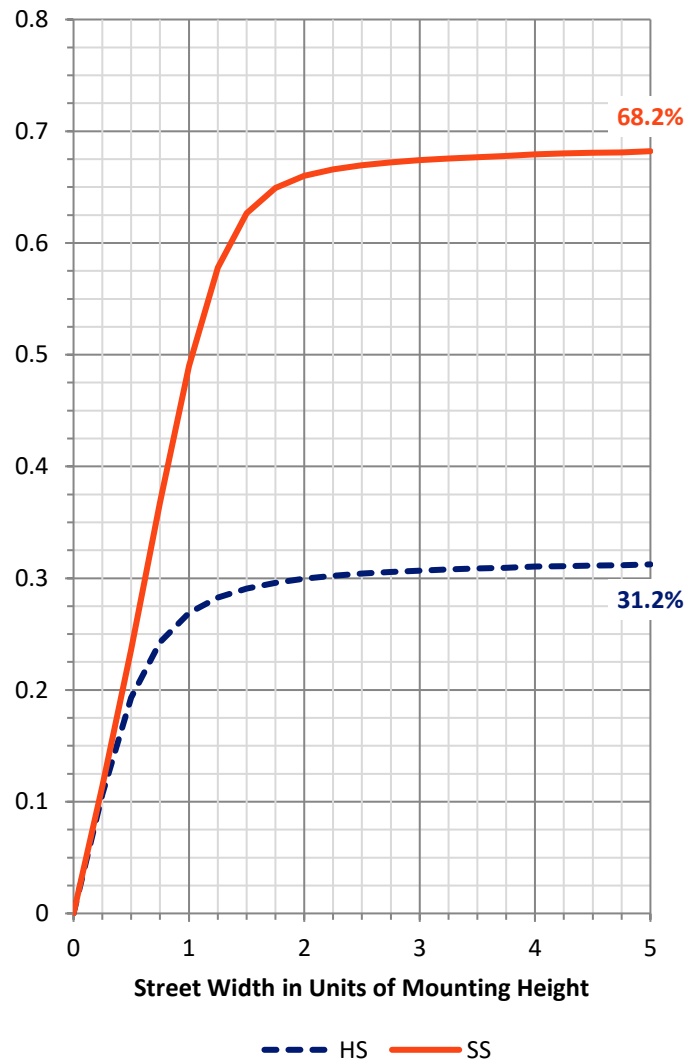
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20232.9	0.0	20232.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	43885.2	0.0	43885.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	64118.0	0.0	64118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.4	1.1
10°-20°	2388.8	3.7
20°-30°	4843.5	7.6
30°-40°	8381.6	13.1
40°-50°	12683.9	19.8
50°-60°	14871.1	23.2
60°-70°	12467.6	19.4
70°-80°	6883.1	10.7
80°-90°	894.1	1.4
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°	64118.0	100.0
0°-180°	64118.0	100.0

Coefficient of Utilization

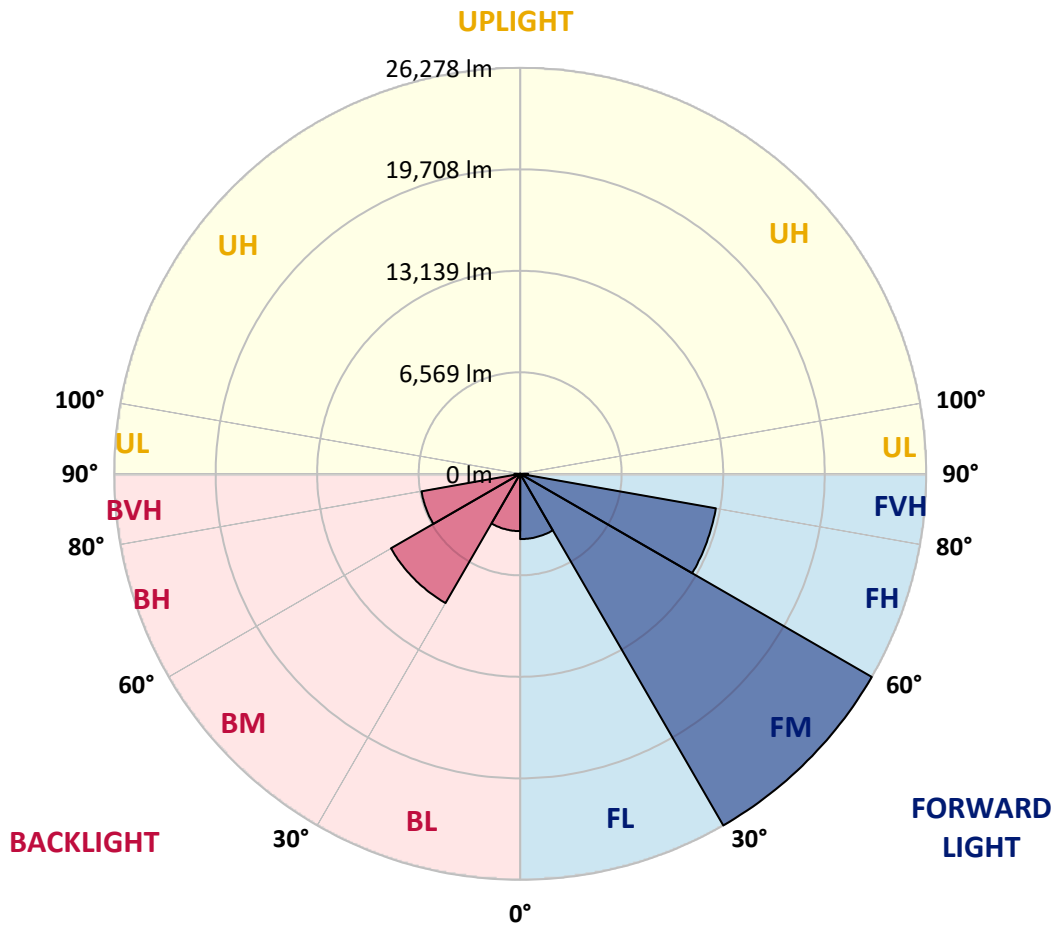


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4226.2	6.6			
FM (30°-60°)	26277.6	41.0			
FH (60°-80°)	12860.2	20.1			G5
FVH (80°-90°)	521.1	0.8			G4/750
BL (0°-30°)	3710.5	5.8	B4/5000		
BM (30°-60°)	9658.9	15.1	B5		
BH (60°-80°)	6490.5	10.1	B5		G5
BVH (80°-90°)	373.0	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5
2.5°	7019.0	6999.0	7015.6	7015.6	7022.3	7019.0	7042.2	7048.9	7058.9	7078.8
5°	6949.1	6945.8	6975.7	7002.3	7028.9	7052.2	7082.2	7125.4	7132.1	7155.3
7.5°	6925.8	6905.9	6952.4	6985.7	7048.9	7105.4	7185.3	7258.5	7288.4	7298.4
10°	7105.4	7072.2	7115.4	7135.4	7188.6	7245.2	7338.3	7454.7	7488.0	7527.9
12.5°	7411.5	7374.9	7438.1	7468.0	7517.9	7567.8	7631.0	7744.1	7760.8	7834.0
15°	7830.6	7787.4	7827.3	7863.9	7947.1	7993.6	8056.8	8166.6	8166.6	8223.2
17.5°	8399.5	8342.9	8372.8	8386.2	8439.4	8509.2	8615.7	8712.2	8762.1	8742.1
20°	9247.7	9177.9	9177.9	9111.3	9091.4	9147.9	9287.6	9420.7	9473.9	9370.8
22.5°	10521.8	10422.0	10365.4	10139.2	10049.4	10056.1	10195.8	10358.8	10402.0	10219.1
25°	12141.8	11985.4	11908.9	11576.3	11373.4	11197.1	11306.8	11516.4	11576.3	11350.1
27.5°	13761.8	13771.8	13698.6	13299.4	12963.4	12640.8	12584.2	12803.8	12867.0	12610.8
30°	16033.8	15797.6	15657.9	15178.9	14699.9	14247.5	14014.6	14104.4	14121.1	13815.0
32.5°	17993.1	17933.3	17633.9	17214.7	16599.3	15890.8	15501.6	15358.5	15331.9	14896.2
35°	20225.2	20192.0	19875.9	19377.0	18711.7	17727.0	17025.1	16616.0	16582.7	15970.6
37.5°	22493.9	22493.9	22184.6	21639.0	20950.4	19719.6	18651.8	18003.1	17896.7	17098.3
40°	24303.5	24193.8	24250.3	24020.8	23232.4	21925.1	20458.1	19516.7	19373.6	18415.6
42.5°	25331.4	25294.8	25634.2	25890.3	25567.6	24523.1	22447.3	21156.7	20957.1	19866.0
45°	25561.0	25521.1	26126.5	27064.6	27517.0	27087.8	24609.6	22883.1	22640.3	21382.9
47.5°	25032.1	24952.2	25840.4	27320.7	28771.1	29526.2	26951.5	24756.0	24403.3	22859.8
50°	23442.0	23365.5	24709.4	26675.4	29193.5	31182.8	29492.9	26741.9	26203.0	24443.3
52.5°	19985.7	20022.3	22128.0	24829.1	28638.0	32214.0	31681.8	28834.3	28185.6	26063.3
55°	15568.1	15647.9	18236.0	21209.9	26415.9	32057.7	33175.4	30989.8	30344.5	27586.8
57.5°	11147.2	11499.8	13924.8	16868.8	22148.0	29579.4	33501.4	33039.0	32413.6	29250.1
60°	7225.2	7288.4	9783.3	12750.5	16865.4	25175.1	32839.4	34592.5	34103.5	30946.6
62.5°	4630.5	4673.8	6194.0	8918.4	12138.5	18625.2	30610.6	35267.8	35118.1	32067.6
65°	3403.0	3369.8	4161.5	5894.6	8176.6	11486.5	26282.8	34941.8	35237.8	32769.5
67.5°	2840.8	2794.3	3183.5	4081.6	6024.3	6523.3	19446.8	32822.8	33907.2	32689.7
70°	2588.0	2548.1	2784.3	3030.5	4700.4	4367.7	9803.3	28534.9	30204.8	31781.6
72.5°	2192.2	2122.3	2445.0	2691.2	3655.8	3349.8	4051.7	21918.4	23954.3	28870.9
75°	1699.9	1653.3	1929.4	2368.5	2747.7	2614.6	2561.4	13309.4	15531.5	22327.6
77.5°	1347.2	1284.0	1536.9	1846.2	2471.6	1972.6	1866.2	5731.6	7933.7	14254.1
80°	1014.6	958.0	1167.6	1460.3	1899.4	1487.0	1207.5	2338.5	2990.5	7221.9
82.5°	721.9	672.0	815.0	1071.1	1277.4	1333.9	741.8	1310.6	1473.6	2784.3
85°	462.4	432.4	545.5	672.0	811.7	858.2	452.4	685.3	751.8	1147.6
87.5°	252.8	206.2	292.7	312.7	375.9	342.6	216.2	249.5	269.4	415.8
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°
7065.5	0°	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5	7065.5
7078.8	2.5°	7092.1	7102.1	7135.4	7145.4	7168.6	7198.6	7218.5	7238.5	7238.5	7258.5
7185.3	5°	7188.6	7211.9	7281.7	7318.3	7378.2	7438.1	7474.7	7517.9	7544.5	7557.9
7354.9	7.5°	7374.9	7411.5	7511.3	7574.5	7677.6	7760.8	7817.3	7877.2	7890.5	7927.1
7591.1	10°	7627.7	7671.0	7784.1	7903.8	8026.9	8130.0	8183.2	8226.5	8243.1	8249.8
7893.8	12.5°	7917.1	7980.3	8126.7	8273.1	8402.8	8492.6	8505.9	8495.9	8449.4	8409.4
8266.4	15°	8273.1	8329.6	8492.6	8652.3	8778.7	8795.3	8712.2	8658.9	8602.4	8592.4
8682.2	17.5°	8698.8	8728.8	8878.5	9034.8	9044.8	8988.3	8865.2	8815.3	8762.1	8725.5
9224.4	20°	9194.5	9184.5	9291.0	9357.5	9287.6	9114.7	8928.4	8845.2	8792.0	8748.7
9889.7	22.5°	9786.6	9710.1	9696.8	9680.2	9493.9	9131.3	8878.5	8772.0	8688.9	8629.0
10817.8	25°	10648.2	10355.5	10152.5	10039.4	9620.3	9041.5	8718.8	8482.6	8326.3	8223.2
11952.2	27.5°	11726.0	11233.7	10721.4	10445.3	9620.3	8858.5	8332.9	7950.4	7694.2	7587.8
13049.9	30°	12753.9	12238.3	11483.1	10934.3	9597.0	8559.1	7710.9	7178.6	6879.2	6772.8
13988.0	32.5°	13632.1	13069.9	12291.5	11469.8	9540.5	8073.5	6939.1	6350.3	6060.9	5934.5
14916.1	35°	14447.1	13848.3	13103.2	12058.6	9390.8	7361.6	6090.9	5641.8	5319.1	5116.2
15860.8	37.5°	15282.0	14570.2	13871.6	12590.9	9121.3	6530.0	5438.9	5056.3	4677.1	4404.3
16865.4	40°	16190.2	15338.6	14693.2	12906.9	8678.9	5738.2	4933.2	4583.9	4181.4	3892.0
18023.1	42.5°	17251.3	16260.0	15608.0	13069.9	8073.5	5176.1	4603.9	4261.3	3882.0	3645.9
19263.9	45°	18359.1	17274.6	16443.0	13066.6	7398.2	4913.3	4497.5	4158.1	3739.0	3492.8
20537.9	47.5°	19520.0	18335.8	17164.8	12853.7	6812.7	4949.9	4437.6	3935.3	3472.9	3233.4
21825.3	50°	20684.3	19496.7	17863.4	12454.5	6563.2	4870.0	4214.7	3622.6	3077.0	2860.8
23032.8	52.5°	21838.6	20730.9	18465.5	11885.7	6310.4	4574.0	3928.6	3216.7	2914.0	2764.3
24280.3	55°	22999.5	21951.7	19120.8	11057.3	5678.4	4228.0	3449.6	3063.7	2784.3	2647.9
25501.1	57.5°	24163.8	23362.1	19742.9	10229.0	4883.3	3802.2	3186.8	2877.4	2654.6	2538.1
26522.3	60°	25374.7	24975.5	20384.9	9467.3	4098.3	3256.7	2993.9	2727.7	2501.5	2371.8
27503.7	62.5°	26622.1	26751.9	20887.2	8485.9	3376.4	2924.0	2820.9	2548.1	2328.6	2205.5
28315.3	65°	27879.6	28465.0	21216.5	7125.4	2737.7	2608.0	2634.6	2351.8	2129.0	2022.5
28910.8	67.5°	28827.6	29699.2	21123.4	5392.3	2245.4	2308.6	2401.7	2145.6	1936.0	1852.9
28814.3	70°	28934.1	29552.8	20205.3	3692.4	1879.5	2015.9	2142.3	1942.7	1726.5	1666.6
27457.1	72.5°	27517.0	27556.9	17647.2	2411.7	1590.1	1769.7	1869.5	1736.4	1526.9	1467.0
24020.8	75°	23801.2	22790.0	12956.8	1590.1	1330.6	1520.2	1613.4	1520.2	1317.3	1330.6
17973.2	77.5°	18033.1	16140.3	7867.2	1131.0	1111.1	1277.4	1403.8	1337.3	1164.3	1307.3
9038.2	80°	9291.0	8732.1	3509.5	844.9	878.2	1021.2	1154.3	1067.8	921.4	878.2
2019.2	82.5°	2129.0	2474.9	1383.8	605.4	635.4	735.2	881.5	801.7	662.0	558.9
841.6	85°	745.1	815.0	612.1	379.2	372.6	459.1	598.8	535.6	449.1	359.3
355.9	87.5°	236.2	309.4	229.5	153.0	159.7	206.2	276.1	252.8	209.6	136.4
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°
7065.5
7258.5
7564.5
7913.8
8233.1
8409.4
8592.4
8728.8
8752.1
8648.9
8263.1
7641.0
6836.0
5997.7
5182.7
4477.5
3948.6
3692.4
3532.8
3266.6
2874.1
2764.3
2634.6
2518.2
2361.8
2202.2
2019.2
1856.2
1669.9
1463.7
1284.0
1151.0
801.7
552.2
379.2
143.0
0.0

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