

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: P949008

Luminaire Tested: **GALN-SB3D-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29147 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

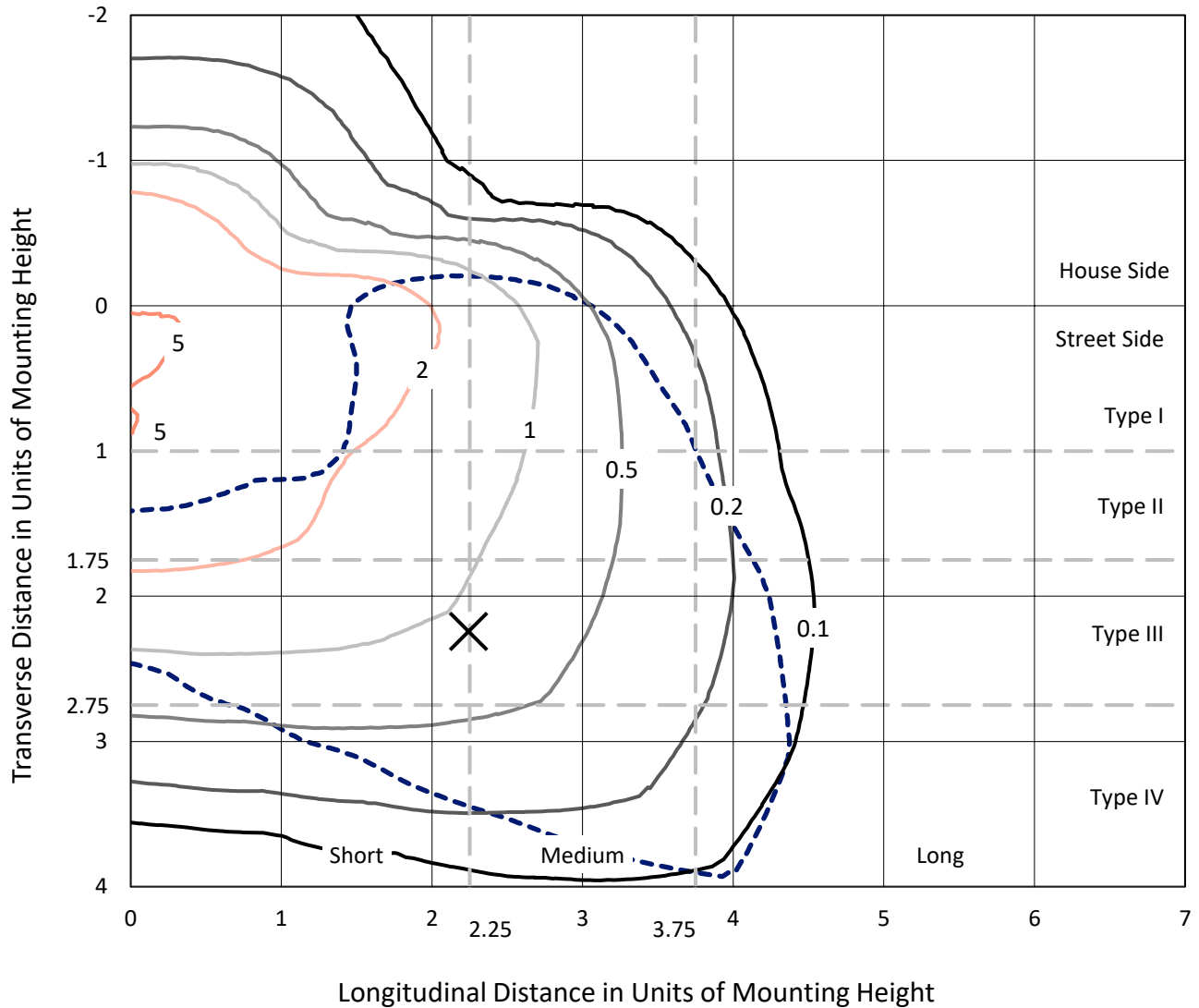
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

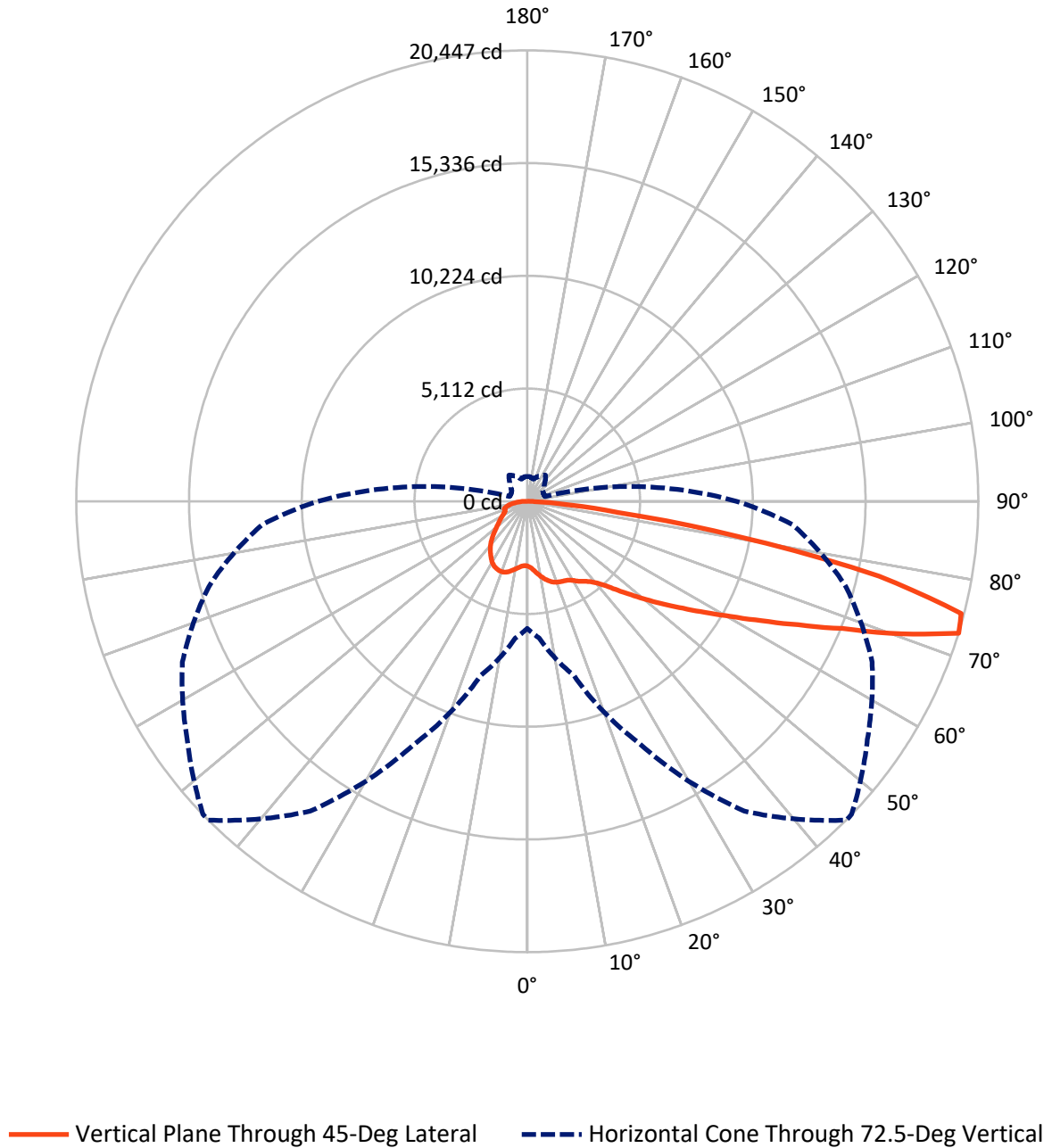
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	6589.1	0.0	6589.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22557.9	0.0	22557.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	29147.0	0.0	29147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	1.0
10°-20°	997.8	3.4
20°-30°	1735.7	6.0
30°-40°	2488.3	8.5
40°-50°	3503.6	12.0
50°-60°	5366.6	18.4
60°-70°	7774.3	26.7
70°-80°	6208.2	21.3
80°-90°	773.2	2.7
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°	29147.0	100.0
0°-180°	29147.0	100.0

Coefficient of Utilization



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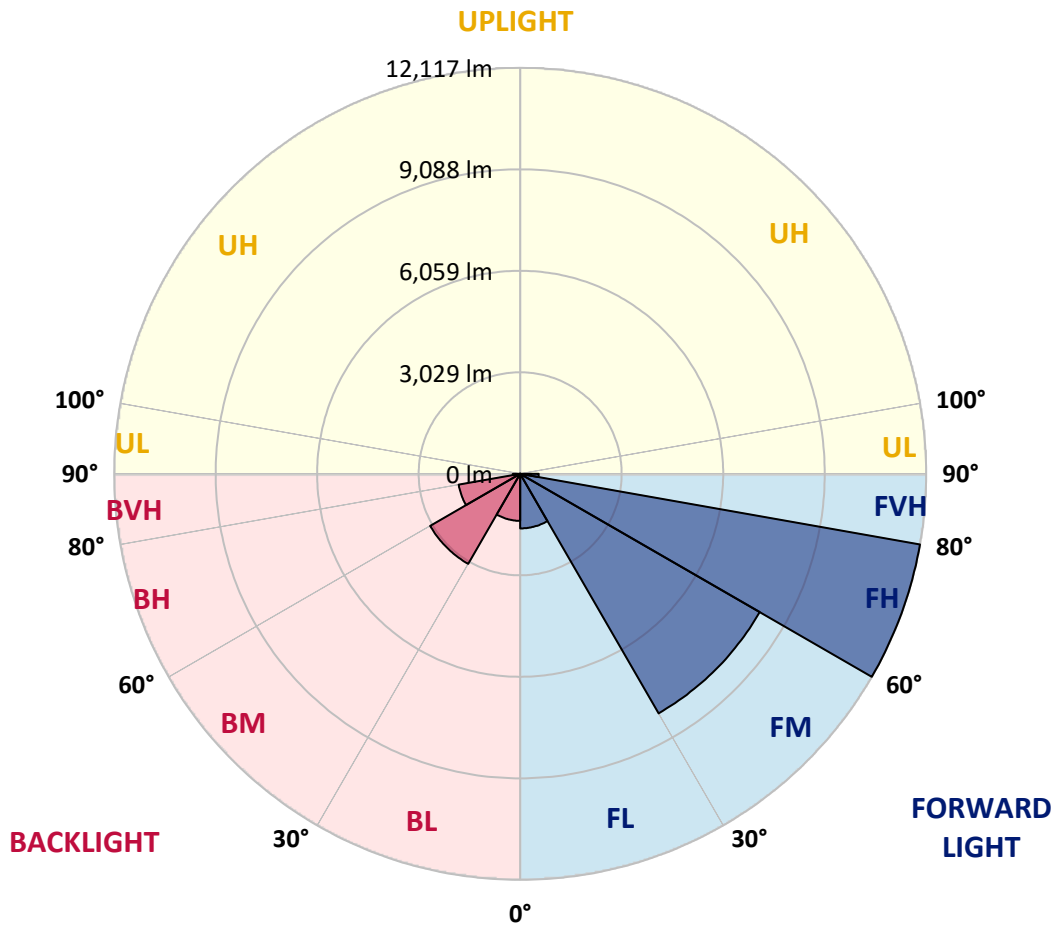
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.9	5.6			
FM (30°-60°)	8255.9	28.3			
FH (60°-80°)	12117.3	41.6			G5
FVH (80°-90°)	554.7	1.9			G4/750
BL (0°-30°)	1402.9	4.8	B3/2500		
BM (30°-60°)	3102.5	10.6	B3/5000		
BH (60°-80°)	1865.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	218.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4
2.5°	3055.5	3075.5	3057.1	3040.2	3032.5	3012.5	3011.0	2998.7	2991.0	2969.5
5°	3268.9	3295.1	3264.3	3230.6	3199.9	3150.7	3144.6	3109.3	3069.3	3023.3
7.5°	3510.0	3533.0	3497.7	3447.1	3393.3	3311.9	3310.4	3245.9	3183.0	3104.7
10°	3720.4	3751.1	3703.5	3634.4	3566.8	3474.7	3463.9	3390.2	3310.4	3209.1
12.5°	3906.2	3927.7	3881.6	3797.1	3718.8	3626.7	3612.9	3531.5	3442.5	3327.3
15°	4053.6	4081.2	4019.8	3929.2	3846.3	3755.7	3743.4	3669.7	3580.6	3459.3
17.5°	4150.3	4173.3	4110.4	4009.0	3929.2	3854.0	3844.7	3783.3	3705.0	3582.2
20°	4187.1	4211.7	4145.7	4042.8	3969.1	3910.8	3906.2	3861.6	3807.9	3695.8
22.5°	4224.0	4247.0	4161.0	4053.6	3989.1	3952.2	3950.7	3921.5	3900.0	3807.9
25°	4372.9	4379.1	4263.9	4108.8	4016.7	3984.5	3982.9	3981.4	3990.6	3918.4
27.5°	4501.9	4500.4	4402.1	4256.2	4113.4	4045.9	4044.3	4059.7	4088.9	4029.0
30°	4690.8	4673.9	4557.2	4405.2	4274.7	4170.3	4161.0	4147.2	4170.3	4122.7
32.5°	5091.5	5037.8	4848.9	4578.7	4408.2	4328.4	4316.1	4230.1	4239.3	4210.2
35°	5665.8	5595.1	5343.3	4907.3	4574.1	4460.4	4454.3	4345.3	4326.9	4300.8
37.5°	6349.0	6261.5	5968.2	5383.2	4859.7	4614.0	4604.8	4506.5	4431.3	4403.6
40°	7035.4	6924.8	6682.2	5963.6	5280.4	4870.4	4841.2	4692.3	4606.3	4560.3
42.5°	7701.8	7609.6	7402.3	6614.7	5799.4	5245.1	5180.6	4925.7	4861.2	4818.2
45°	8291.4	8208.5	8056.4	7310.2	6407.4	5754.8	5691.9	5275.8	5255.8	5255.8
47.5°	8770.4	8752.0	8590.8	8019.6	7124.4	6335.2	6226.2	5762.5	5816.2	5899.2
50°	9301.7	9251.0	9079.0	8718.2	7967.4	7000.1	6911.0	6359.8	6560.9	6788.2
52.5°	9790.0	9817.6	9625.7	9446.0	8919.4	7741.7	7585.1	7064.6	7499.1	7875.3
55°	10292.0	10293.6	10239.8	10215.3	9917.4	8561.6	8389.6	7912.1	8603.1	9069.8
57.5°	10763.4	10766.5	10846.3	11062.8	11075.1	9507.4	9312.4	8953.1	9829.9	10305.9
60°	11184.1	11205.6	11423.7	11930.4	12093.1	10591.5	10407.2	10183.0	11098.2	11577.2
62.5°	11325.4	11403.7	11888.9	12609.0	13098.8	11921.1	11740.0	11606.4	12430.9	12876.2
65°	11085.9	11265.5	12203.7	13169.5	14133.7	13501.1	13321.5	13175.6	13815.9	14235.1
67.5°	10497.8	10729.6	12185.2	13757.5	15389.7	15402.0	15234.6	14892.2	15300.6	15461.9
70°	8948.5	9295.5	11112.0	13977.1	16831.5	18001.5	17840.3	16958.9	16782.3	16002.3
72.5°	5765.6	6232.3	8182.4	12169.9	17152.4	20447.4	20438.2	18824.5	17250.7	14952.1
75°	2103.6	2389.1	3801.7	7638.8	14397.8	20323.1	20382.9	18505.1	15747.5	11549.6
77.5°	766.2	838.3	1240.6	2935.8	8854.9	16306.4	16430.7	14794.0	11208.7	5796.3
80°	402.3	442.2	635.7	1139.3	3794.1	9684.0	9879.0	8791.9	5268.1	1745.8
82.5°	222.6	241.1	356.2	618.8	1708.9	4141.1	4257.8	3473.2	1853.3	740.1
85°	119.8	127.4	167.4	337.8	835.3	1435.6	1467.9	1038.0	738.5	434.5
87.5°	35.3	43.0	55.3	107.5	327.0	322.4	330.1	205.7	291.7	219.6
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°
2940.4	0°	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4	2940.4
2963.4	2.5°	2954.2	2949.6	2932.7	2925.0	2915.8	2914.3	2921.9	2923.5	2925.0	2926.5
2997.2	5°	2981.8	2966.5	2951.1	2941.9	2945.0	2946.5	2961.9	2972.6	2980.3	2986.4
3060.1	7.5°	3035.6	3023.3	2997.2	2995.6	3000.2	3014.1	3034.0	3058.6	3072.4	3083.2
3141.5	10°	3115.4	3092.4	3061.7	3066.3	3075.5	3095.4	3136.9	3156.9	3179.9	3199.9
3241.3	12.5°	3196.8	3176.8	3141.5	3144.6	3159.9	3195.2	3235.2	3259.7	3275.1	3290.4
3348.8	15°	3302.7	3267.4	3229.0	3229.0	3256.7	3295.1	3313.5	3333.4	3342.6	3359.5
3463.9	17.5°	3411.7	3365.7	3315.0	3311.9	3345.7	3364.1	3374.9	3378.0	3381.0	3399.5
3576.0	20°	3520.8	3470.1	3397.9	3391.8	3399.5	3396.4	3394.9	3391.8	3396.4	3419.4
3691.2	22.5°	3628.2	3569.9	3470.1	3442.5	3421.0	3391.8	3390.2	3388.7	3391.8	3414.8
3815.6	25°	3754.1	3683.5	3549.9	3467.0	3394.9	3354.9	3359.5	3361.1	3364.1	3382.6
3944.5	27.5°	3890.8	3812.5	3623.6	3459.3	3328.8	3301.2	3293.5	3298.1	3308.9	3338.0
4073.5	30°	4027.5	3935.3	3691.2	3428.6	3245.9	3207.5	3183.0	3193.7	3227.5	3256.7
4185.6	32.5°	4151.8	4059.7	3744.9	3361.1	3140.0	3080.1	3047.8	3061.7	3095.4	3106.2
4310.0	35°	4297.7	4193.3	3768.0	3253.6	3024.8	2932.7	2889.7	2869.7	2886.6	2875.9
4455.8	37.5°	4460.4	4351.4	3764.9	3112.3	2889.7	2783.8	2723.9	2648.6	2613.3	2576.5
4670.8	40°	4701.5	4544.9	3728.0	2941.9	2722.3	2625.6	2518.1	2390.7	2310.8	2238.7
5017.8	42.5°	5030.1	4813.6	3660.5	2754.6	2533.5	2442.9	2297.0	2148.1	2022.2	1902.4
5544.5	45°	5519.9	5165.2	3576.0	2555.0	2329.3	2240.2	2082.1	1914.7	1771.9	1618.4
6292.2	47.5°	6226.2	5638.1	3496.2	2327.7	2114.3	2032.9	1890.1	1735.0	1566.1	1417.2
7373.2	50°	7196.6	6316.8	3422.5	2106.6	1902.4	1841.0	1727.4	1569.2	1398.8	1279.0
8639.9	52.5°	8431.1	7239.6	3391.8	1893.2	1704.3	1681.3	1590.7	1443.3	1282.1	1180.8
10117.0	55°	9848.3	8343.6	3391.8	1689.0	1530.8	1538.5	1475.6	1338.9	1199.2	1108.6
11640.2	57.5°	11294.7	9461.4	3330.4	1500.1	1383.4	1415.7	1375.8	1256.0	1130.1	1036.4
13241.6	60°	12627.4	10398.0	3081.6	1328.2	1252.9	1303.6	1277.5	1174.6	1021.1	942.8
14580.5	62.5°	13651.6	10926.2	2602.6	1191.5	1145.4	1203.8	1190.0	1067.1	1001.1	968.9
15679.9	65°	14164.4	10840.2	1989.9	1070.2	1054.8	1145.4	1116.3	1111.7	1059.5	1022.6
16037.7	67.5°	13849.7	10100.1	1443.3	981.1	1002.6	1091.7	1203.8	1222.2	1125.5	1053.3
15030.4	70°	12469.3	8761.2	1074.8	896.7	936.6	1093.2	1372.7	1279.0	1104.0	1019.5
12054.7	72.5°	9485.9	6533.3	833.7	807.6	850.6	1100.9	1447.9	1252.9	1042.6	1127.0
7509.8	75°	5424.7	3586.8	669.5	698.6	743.2	1028.7	1409.5	1185.4	995.0	1034.9
2975.7	77.5°	2068.2	1378.8	552.8	591.1	597.3	898.2	1348.1	1180.8	947.4	924.3
892.1	80°	717.0	538.9	457.6	469.8	462.2	798.4	1292.8	1027.2	775.4	694.0
368.5	82.5°	293.3	268.7	362.4	347.0	328.6	620.3	1044.1	839.9	634.1	560.4
178.1	85°	127.4	170.4	239.5	210.4	190.4	429.9	836.8	710.9	535.9	462.2
58.3	87.5°	26.1	64.5	101.3	95.2	98.3	287.1	594.2	505.2	379.3	284.1
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°
2940.4
2932.7
2989.5
3086.2
3195.2
3296.6
3365.7
3405.6
3428.6
3430.2
3407.1
3367.2
3288.9
3144.6
2909.7
2599.5
2243.3
1891.7
1599.9
1400.3
1271.3
1173.1
1099.4
1021.1
930.5
958.1
1010.3
1041.0
1005.7
1117.8
1034.9
843.0
671.0
554.3
460.6
222.6
0.0

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