

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: P954090

Luminaire Tested: **GALN-SB7B-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954090
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-SB7B-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28962 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

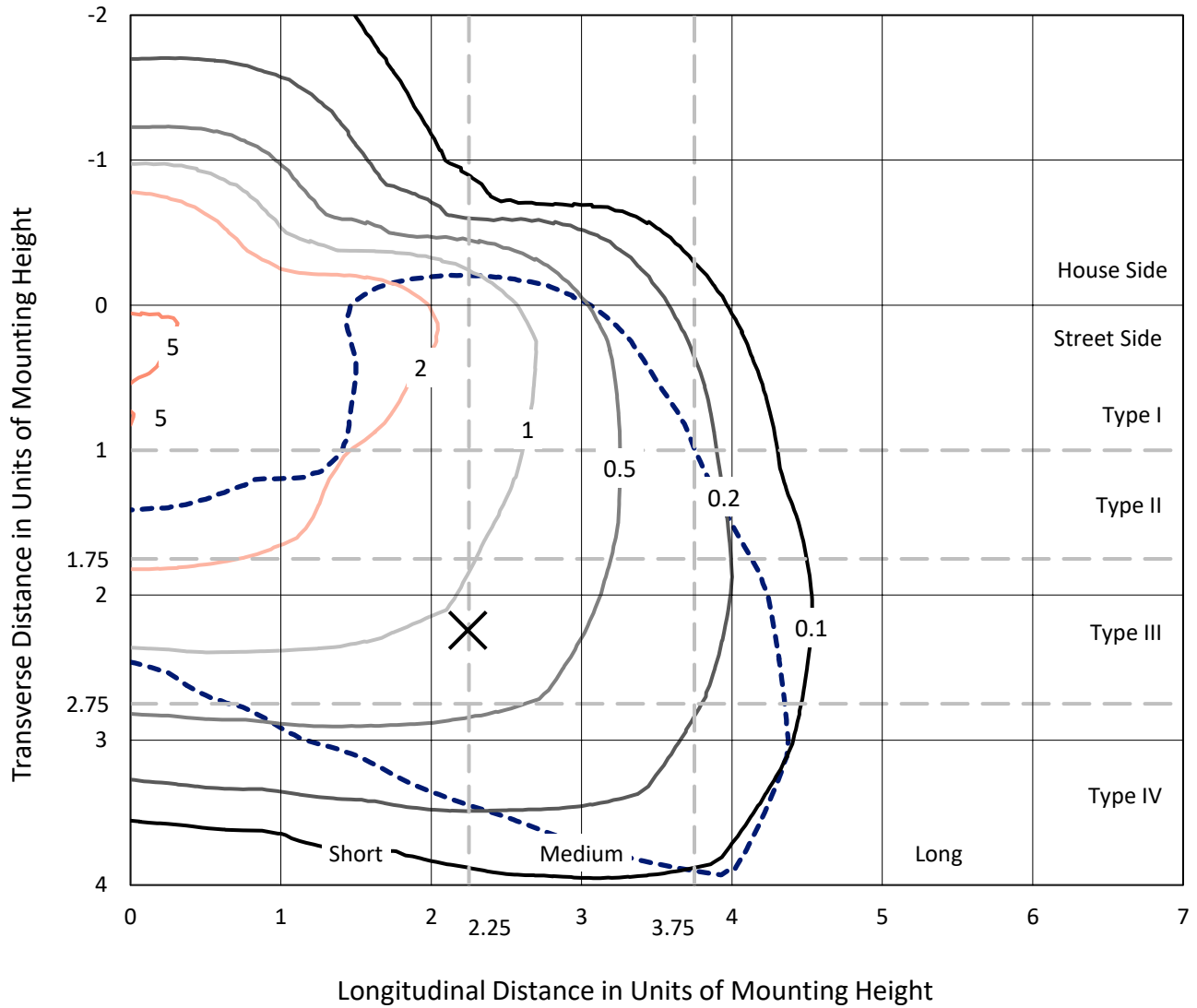
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

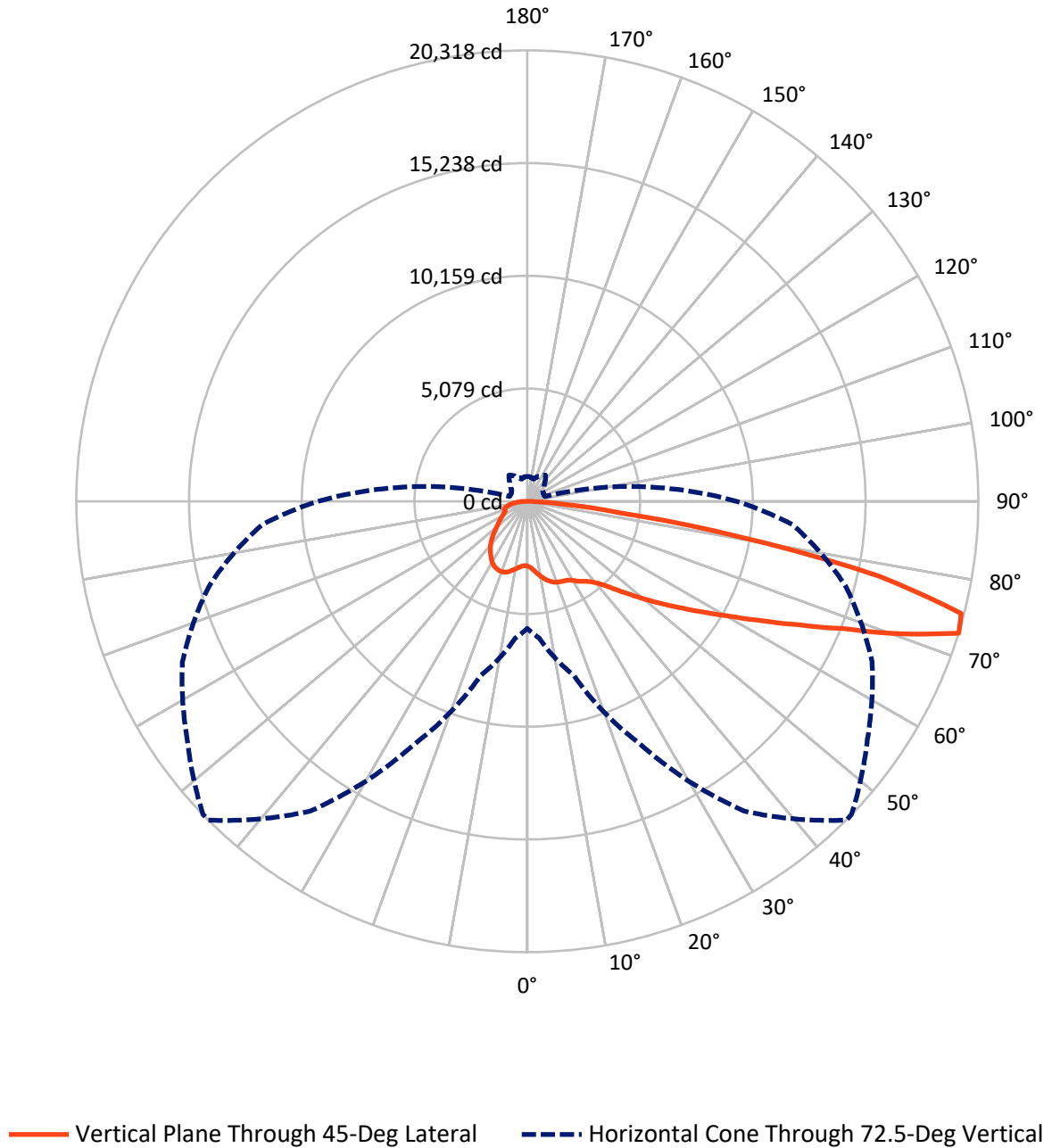
✕ Max cd
 - - - 1/2 Max cd



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	6547.3	0.0	6547.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22414.7	0.0	22414.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	28962.0	0.0	28962.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	1.0
10°-20°	991.5	3.4
20°-30°	1724.7	6.0
30°-40°	2472.5	8.5
40°-50°	3481.4	12.0
50°-60°	5332.5	18.4
60°-70°	7724.9	26.7
70°-80°	6168.8	21.3
80°-90°	768.3	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°	28962.0	100.0
0°-180°	28962.0	100.0

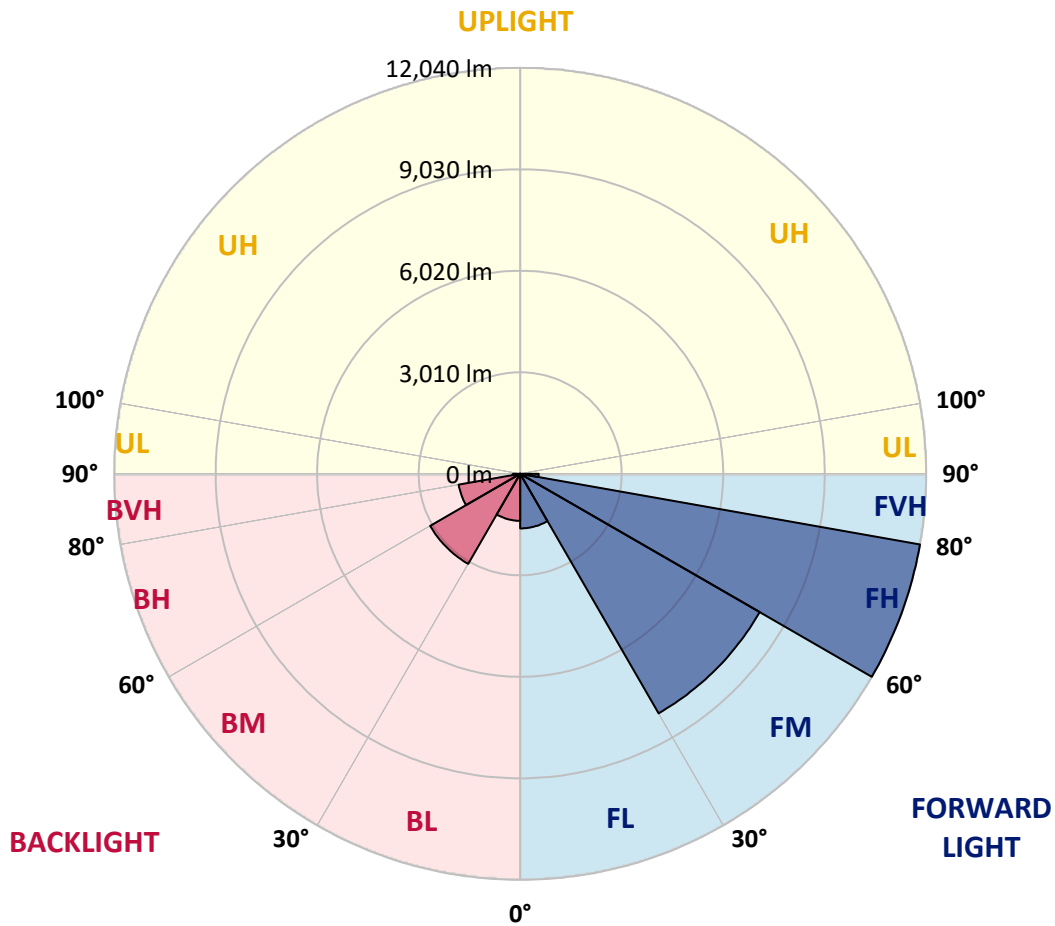


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.6	5.6			
FM (30°-60°)	8203.5	28.3			
FH (60°-80°)	12040.4	41.6			G5
FVH (80°-90°)	551.2	1.9			G4/750
BL (0°-30°)	1394.0	4.8	B3/2500		
BM (30°-60°)	3082.9	10.6	B3/5000		
BH (60°-80°)	1853.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	217.1	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°	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7
2.5°	3036.1	3056.0	3037.7	3020.9	3013.2	2993.4	2991.9	2979.7	2972.0	2950.7
5°	3248.2	3274.1	3243.6	3210.1	3179.5	3130.7	3124.6	3089.5	3049.9	3004.1
7.5°	3487.7	3510.6	3475.5	3425.2	3371.8	3290.9	3289.4	3225.3	3162.8	3085.0
10°	3696.8	3727.3	3680.0	3611.3	3544.2	3452.6	3442.0	3368.7	3289.4	3188.7
12.5°	3881.4	3902.7	3857.0	3773.0	3695.2	3603.7	3590.0	3509.1	3420.6	3306.2
15°	4027.8	4055.3	3994.3	3904.2	3821.9	3731.8	3719.6	3646.4	3557.9	3437.4
17.5°	4123.9	4146.8	4084.3	3983.6	3904.2	3829.5	3820.3	3759.3	3681.5	3559.4
20°	4160.6	4185.0	4119.4	4017.1	3943.9	3885.9	3881.4	3837.1	3783.7	3672.3
22.5°	4197.2	4220.1	4134.6	4027.8	3963.8	3927.1	3925.6	3896.6	3875.3	3783.7
25°	4345.2	4351.3	4236.8	4082.8	3991.2	3959.2	3957.6	3956.1	3965.3	3893.6
27.5°	4473.3	4471.8	4374.2	4229.2	4087.3	4020.2	4018.7	4033.9	4062.9	4003.4
30°	4661.0	4644.2	4528.3	4377.2	4247.5	4143.8	4134.6	4120.9	4143.8	4096.5
32.5°	5059.2	5005.8	4818.1	4549.6	4380.3	4300.9	4288.7	4203.3	4212.4	4183.5
35°	5629.8	5559.6	5309.4	4876.1	4545.0	4432.1	4426.0	4317.7	4299.4	4273.5
37.5°	6308.7	6221.8	5930.4	5349.1	4828.8	4584.7	4575.6	4477.9	4403.1	4375.7
40°	6990.7	6880.9	6639.8	5925.8	5246.9	4839.5	4810.5	4662.5	4577.1	4531.3
42.5°	7652.9	7561.3	7355.4	6572.7	5762.5	5211.8	5147.7	4894.4	4830.3	4787.6
45°	8238.7	8156.4	8005.3	7263.8	6366.7	5718.3	5655.7	5242.3	5222.4	5222.4
47.5°	8714.8	8696.5	8536.3	7968.7	7079.2	6295.0	6186.7	5725.9	5779.3	5861.7
50°	9242.6	9192.3	9021.4	8662.9	7916.8	6955.6	6867.1	6319.4	6519.3	6745.1
52.5°	9727.8	9755.3	9564.6	9386.1	8862.8	7692.5	7536.9	7019.7	7451.5	7825.3
55°	10226.7	10228.2	10174.8	10150.4	9854.5	8507.3	8336.4	7861.9	8548.5	9012.3
57.5°	10695.1	10698.2	10777.5	10992.6	11004.8	9447.1	9253.3	8896.3	9767.5	10240.5
60°	11113.1	11134.5	11351.2	11854.6	12016.4	10524.2	10341.1	10118.4	11027.7	11503.7
62.5°	11253.5	11331.3	11813.4	12529.0	13015.7	11845.5	11665.4	11532.7	12352.0	12794.5
65°	11015.5	11194.0	12126.2	13085.9	14044.0	13415.4	13236.9	13092.0	13728.2	14144.7
67.5°	10431.2	10661.5	12107.9	13670.2	15292.0	15304.2	15137.9	14797.7	15203.5	15363.7
70°	8891.7	9236.5	11041.4	13888.4	16724.6	17887.2	17727.0	16851.3	16675.8	15900.8
72.5°	5729.0	6192.8	8130.4	12092.6	17043.5	20317.7	20308.5	18705.0	17141.2	14857.2
75°	2090.2	2374.0	3777.6	7590.3	14306.4	20194.1	20253.6	18387.7	15647.5	11476.3
77.5°	761.3	833.0	1232.8	2917.1	8798.7	16202.9	16326.4	14700.1	11137.6	5759.5
80°	399.7	439.4	631.6	1132.1	3770.0	9622.5	9816.3	8736.1	5234.7	1734.7
82.5°	221.2	239.5	354.0	614.9	1698.1	4114.8	4230.7	3451.1	1841.5	735.4
85°	119.0	126.6	166.3	335.7	830.0	1426.5	1458.6	1031.4	733.9	431.8
87.5°	35.1	42.7	54.9	106.8	325.0	320.4	328.0	204.4	289.9	218.2
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°
2921.7	0°	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7	2921.7
2944.6	2.5°	2935.4	2930.9	2914.1	2906.4	2897.3	2895.8	2903.4	2904.9	2906.4	2908.0
2978.2	5°	2962.9	2947.6	2932.4	2923.2	2926.3	2927.8	2943.1	2953.7	2961.4	2967.5
3040.7	7.5°	3016.3	3004.1	2978.2	2976.6	2981.2	2994.9	3014.8	3039.2	3052.9	3063.6
3121.6	10°	3095.6	3072.7	3042.2	3046.8	3056.0	3075.8	3117.0	3136.8	3159.7	3179.5
3220.7	12.5°	3176.5	3156.7	3121.6	3124.6	3139.9	3175.0	3214.6	3239.0	3254.3	3269.6
3327.5	15°	3281.8	3246.7	3208.5	3208.5	3236.0	3274.1	3292.4	3312.3	3321.4	3338.2
3442.0	17.5°	3390.1	3344.3	3294.0	3290.9	3324.5	3342.8	3353.5	3356.5	3359.6	3377.9
3553.3	20°	3498.4	3448.1	3376.4	3370.3	3377.9	3374.8	3373.3	3370.3	3374.8	3397.7
3667.8	22.5°	3605.2	3547.2	3448.1	3420.6	3399.2	3370.3	3368.7	3367.2	3370.3	3393.1
3791.3	25°	3730.3	3660.1	3527.4	3445.0	3373.3	3333.6	3338.2	3339.7	3342.8	3361.1
3919.5	27.5°	3866.1	3788.3	3600.6	3437.4	3307.7	3280.2	3272.6	3277.2	3287.9	3316.9
4047.7	30°	4001.9	3910.4	3667.8	3406.9	3225.3	3187.2	3162.8	3173.4	3207.0	3236.0
4159.0	32.5°	4125.5	4033.9	3721.2	3339.7	3120.0	3060.5	3028.5	3042.2	3075.8	3086.5
4282.6	35°	4270.4	4166.7	3744.1	3232.9	3005.6	2914.1	2871.4	2851.5	2868.3	2857.6
4427.6	37.5°	4432.1	4323.8	3741.0	3092.6	2871.4	2766.1	2706.6	2631.8	2596.7	2560.1
4641.2	40°	4671.7	4516.1	3704.4	2923.2	2705.1	2608.9	2502.1	2375.5	2296.2	2224.5
4986.0	42.5°	4998.2	4783.0	3637.3	2737.1	2517.4	2427.4	2282.4	2134.4	2009.3	1890.3
5509.3	45°	5484.9	5132.4	3553.3	2538.8	2314.5	2226.0	2068.8	1902.5	1760.6	1608.1
6252.3	47.5°	6186.7	5602.3	3474.0	2313.0	2100.9	2020.0	1878.1	1724.0	1556.2	1408.2
7326.4	50°	7150.9	6276.7	3400.8	2093.3	1890.3	1829.3	1716.4	1559.3	1389.9	1270.9
8585.1	52.5°	8377.6	7193.6	3370.3	1881.2	1693.5	1670.6	1580.6	1434.2	1274.0	1173.3
10052.8	55°	9785.8	8290.6	3370.3	1678.3	1521.1	1528.7	1466.2	1330.4	1191.6	1101.6
11566.3	57.5°	11223.0	9401.3	3309.2	1490.6	1374.6	1406.7	1367.0	1248.0	1122.9	1029.8
13157.6	60°	12547.3	10332.0	3062.1	1319.7	1245.0	1295.3	1269.4	1167.2	1014.6	936.8
14488.0	62.5°	13564.9	10856.8	2586.0	1183.9	1138.2	1196.1	1182.4	1060.4	994.8	962.7
15580.4	65°	14074.5	10771.4	1977.3	1063.4	1048.2	1138.2	1109.2	1104.6	1052.7	1016.1
15935.9	67.5°	13761.8	10036.0	1434.2	974.9	996.3	1084.8	1196.1	1214.5	1118.3	1046.6
14935.0	70°	12390.2	8705.6	1068.0	891.0	930.7	1086.3	1364.0	1270.9	1097.0	1013.1
11978.2	72.5°	9425.7	6491.8	828.5	802.5	845.2	1093.9	1438.7	1245.0	1035.9	1119.9
7462.2	75°	5390.3	3564.0	665.2	694.2	738.4	1022.2	1400.6	1177.8	988.6	1028.3
2956.8	77.5°	2055.1	1370.1	549.2	587.4	593.5	892.5	1339.6	1173.3	941.4	918.5
886.4	80°	712.5	535.5	454.7	466.9	459.2	793.4	1284.6	1020.7	770.5	689.6
366.2	82.5°	291.4	267.0	360.1	344.8	326.5	616.4	1037.5	834.6	630.1	556.9
177.0	85°	126.6	169.4	238.0	209.0	189.2	427.2	831.5	706.4	532.5	459.2
58.0	87.5°	25.9	64.1	100.7	94.6	97.6	285.3	590.4	502.0	376.8	282.3
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°
2921.7
2914.1
2970.5
3066.6
3175.0
3275.7
3344.3
3384.0
3406.9
3408.4
3385.5
3345.8
3268.0
3124.6
2891.2
2583.0
2229.0
1879.7
1589.8
1391.4
1263.3
1165.6
1092.4
1014.6
924.6
952.0
1003.9
1034.4
999.3
1110.7
1028.3
837.6
666.7
550.8
457.7
221.2
0.0

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