

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: P954699

Luminaire Tested: **GALN-SB7D-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954699
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-SB7D-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69087 lumens
Efficiency: N/A
Efficacy: 134.7 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

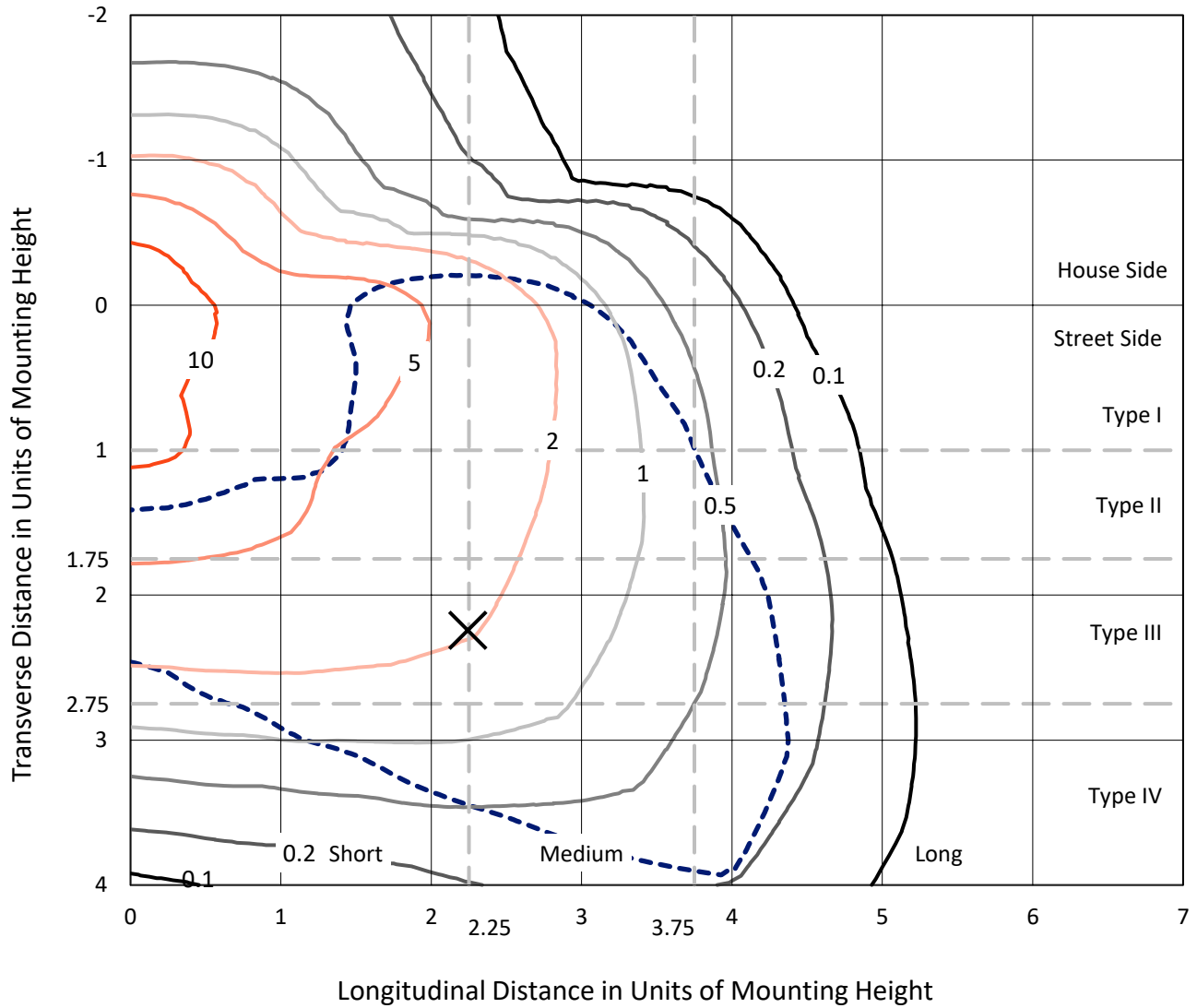
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

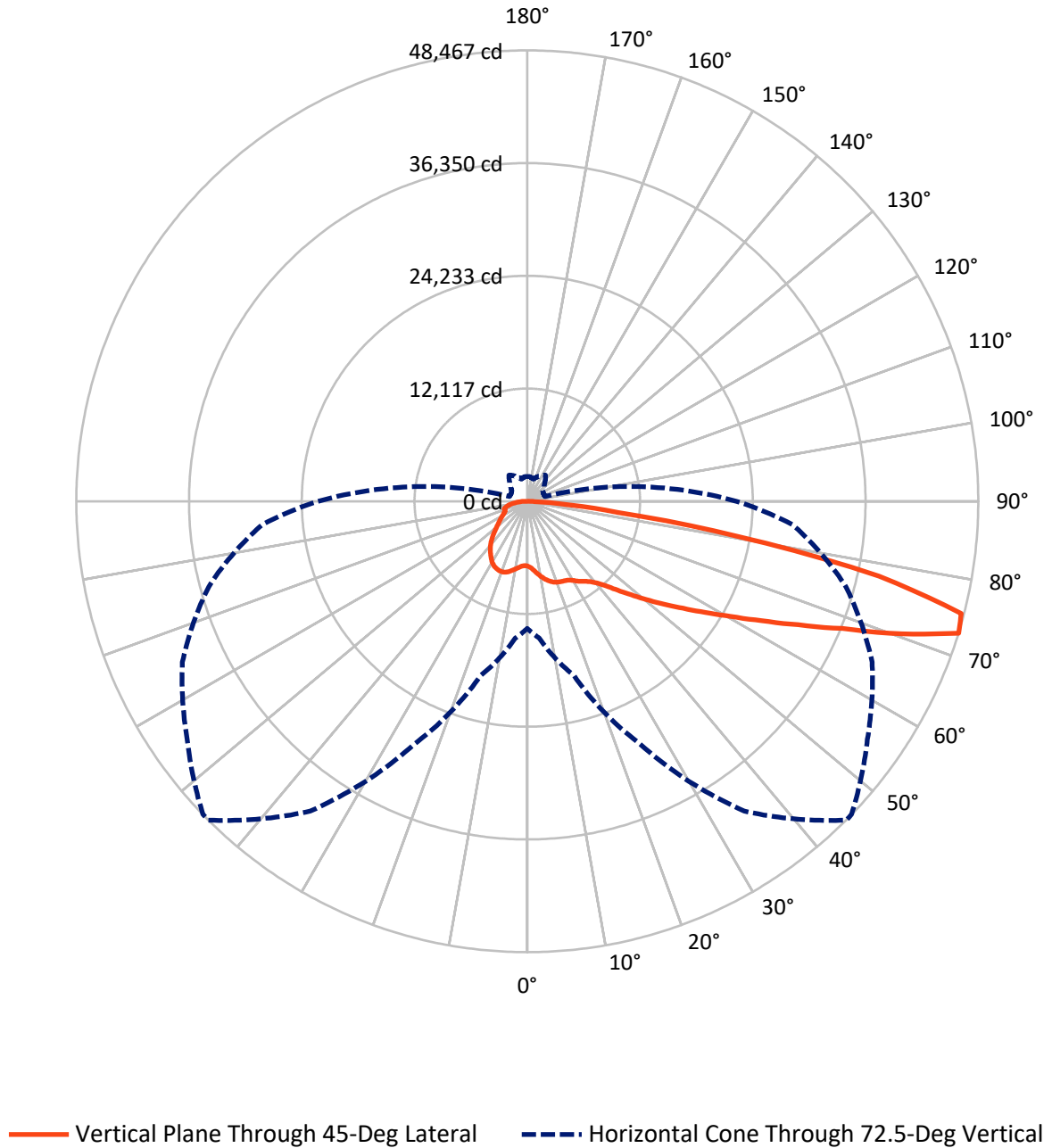
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	15618.2	0.0	15618.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	53468.8	0.0	53468.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	69087.0	0.0	69087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.4	1.0
10°-20°	2365.1	3.4
20°-30°	4114.2	6.0
30°-40°	5898.0	8.5
40°-50°	8304.7	12.0
50°-60°	12720.3	18.4
60°-70°	18427.3	26.7
70°-80°	14715.3	21.3
80°-90°	1832.7	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°	69087.0	100.0
0°-180°	69087.0	100.0



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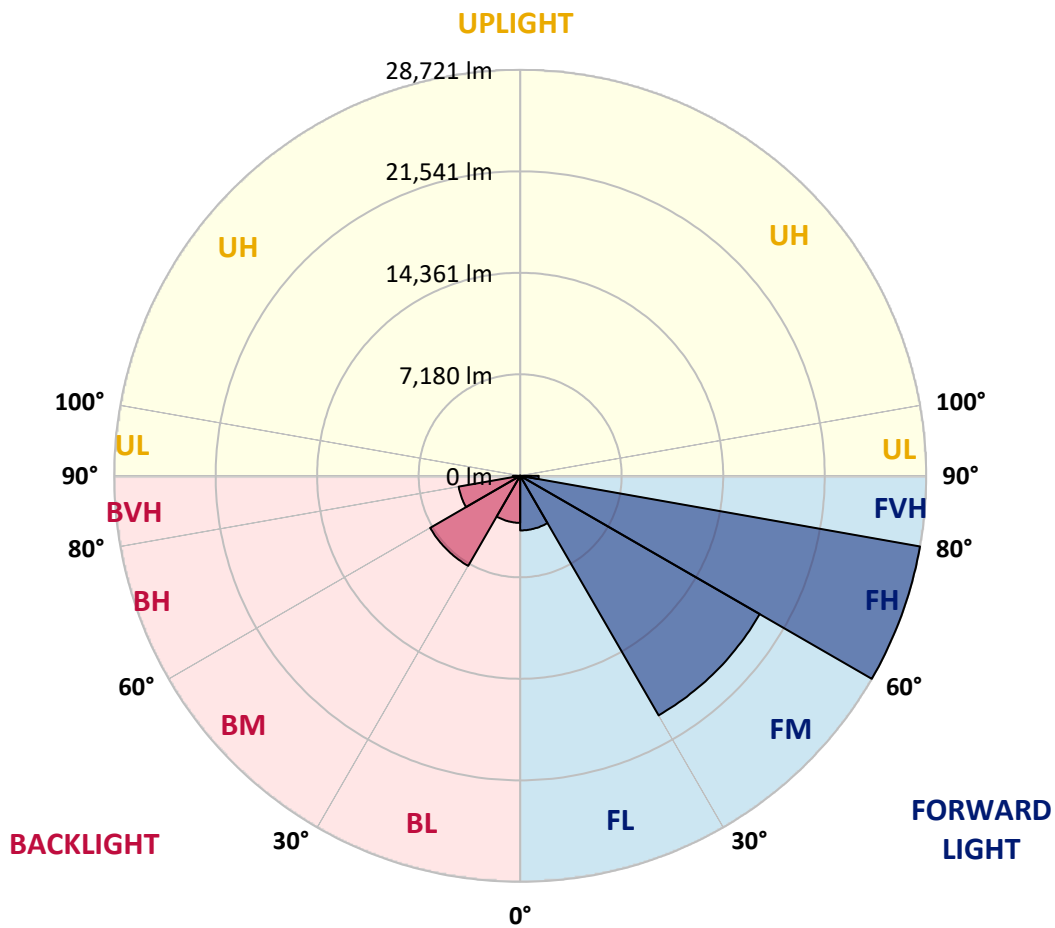
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3863.4	5.6			
FM (30°-60°)	19569.0	28.3			
FH (60°-80°)	28721.5	41.6			G5
FVH (80°-90°)	1314.8	1.9			G5
BL (0°-30°)	3325.2	4.8	B4/5000		
BM (30°-60°)	7354.0	10.6	B4/8500		
BH (60°-80°)	4421.1	6.4	B4/5000		G4/5000
BVH (80°-90°)	517.9	0.7			G4/750
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°	45°	46°	55°	65°	75°
0°	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5
2.5°	7242.5	7289.8	7246.1	7206.1	7187.9	7140.6	7136.9	7107.8	7089.6	7038.7
5°	7748.4	7810.2	7737.5	7657.4	7584.6	7468.1	7453.6	7369.9	7275.2	7166.1
7.5°	8319.8	8374.4	8290.7	8170.5	8043.2	7850.3	7846.6	7693.8	7544.6	7359.0
10°	8818.4	8891.2	8778.3	8614.6	8454.4	8236.1	8210.6	8035.9	7846.6	7606.4
12.5°	9258.7	9309.7	9200.5	9000.3	8814.7	8596.4	8563.6	8370.7	8159.6	7886.7
15°	9608.1	9673.6	9528.1	9313.3	9116.8	8902.1	8873.0	8698.3	8487.2	8199.7
17.5°	9837.4	9892.0	9742.8	9502.6	9313.3	9135.0	9113.2	8967.6	8782.0	8490.8
20°	9924.8	9983.0	9826.5	9582.7	9408.0	9269.7	9258.7	9153.2	9025.8	8760.1
22.5°	10012.1	10066.7	9862.9	9608.1	9455.3	9367.9	9364.3	9295.1	9244.2	9025.8
25°	10365.1	10379.7	10106.7	9739.1	9520.8	9444.4	9440.7	9437.1	9458.9	9287.9
27.5°	10670.8	10667.2	10434.3	10088.5	9750.1	9589.9	9586.3	9622.7	9691.8	9549.9
30°	11118.5	11078.5	10801.9	10441.6	10132.2	9884.7	9862.9	9830.1	9884.7	9771.9
32.5°	12068.4	11941.0	11493.4	10852.8	10448.8	10259.6	10230.5	10026.7	10048.5	9979.4
35°	13429.5	13262.1	12665.3	11631.7	10841.9	10572.6	10558.0	10299.6	10256.0	10194.1
37.5°	15049.1	14841.6	14146.5	12759.9	11518.8	10936.5	10914.7	10681.8	10503.4	10437.9
40°	16675.9	16413.9	15838.9	14135.6	12516.0	11544.3	11475.2	11122.1	10918.3	10809.1
42.5°	18255.4	18037.1	17545.8	15678.7	13746.2	12432.3	12279.5	11675.3	11522.5	11420.6
45°	19653.0	19456.5	19096.2	17327.4	15187.4	13640.6	13491.4	12505.1	12457.8	12457.8
47.5°	20788.5	20744.8	20362.7	19008.8	16887.0	15016.3	14757.9	13658.8	13786.2	13982.7
50°	22047.7	21927.6	21520.0	20664.8	18885.1	16592.2	16381.1	15074.6	15551.3	16090.0
52.5°	23205.1	23270.6	22815.7	22389.9	21141.5	18350.1	17978.8	16745.1	17775.0	18666.7
55°	24395.2	24398.8	24271.4	24213.2	23507.2	20293.5	19885.9	18754.1	20391.8	21498.2
57.5°	25512.5	25519.8	25709.0	26222.2	26251.3	22535.4	22073.2	21221.6	23299.7	24427.9
60°	26509.7	26560.7	27077.5	28278.5	28664.3	25104.9	24668.1	24136.8	26305.9	27441.4
62.5°	26844.5	27030.1	28180.2	29887.1	31048.1	28256.6	27827.2	27510.6	29464.9	30520.4
65°	26276.8	26702.6	28926.3	31215.5	33501.1	32001.6	31575.8	31230.1	32747.7	33741.3
67.5°	24882.9	25432.4	28882.6	32609.4	36478.1	36507.3	36110.6	35299.0	36267.1	36649.2
70°	21210.7	22033.2	26338.7	33129.9	39895.6	42668.8	42286.7	40197.6	39779.1	37930.3
72.5°	13666.1	14772.5	19394.6	28846.2	40656.2	48466.5	48444.6	44619.6	40889.1	35440.9
75°	4986.0	5663.0	9011.3	18106.2	34127.1	48171.7	48313.6	43862.6	37326.1	27375.9
77.5°	1816.1	1987.1	2940.7	6958.6	20988.7	38650.9	38945.7	35066.0	26567.9	13738.9
80°	953.5	1048.2	1506.7	2700.5	8993.1	22954.0	23416.2	20839.5	12486.9	4138.0
82.5°	527.7	571.4	844.4	1466.7	4050.7	9815.6	10092.2	8232.4	4392.8	1754.2
85°	283.9	302.1	396.7	800.7	1979.9	3402.9	3479.3	2460.3	1750.6	1030.0
87.5°	83.7	101.9	131.0	254.8	775.2	764.3	782.5	487.7	691.5	520.4
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°
6969.5	0°	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5
7024.1	2.5°	7002.3	6991.4	6951.3	6933.1	6911.3	6907.7	6925.9	6929.5	6933.1	6936.8
7104.2	5°	7067.8	7031.4	6995.0	6973.2	6980.5	6984.1	7020.5	7046.0	7064.2	7078.7
7253.4	7.5°	7195.2	7166.1	7104.2	7100.6	7111.5	7144.2	7191.5	7249.8	7282.5	7308.0
7446.3	10°	7384.4	7329.8	7257.0	7268.0	7289.8	7337.1	7435.4	7482.7	7537.3	7584.6
7682.9	12.5°	7577.3	7530.0	7446.3	7453.6	7490.0	7573.7	7668.3	7726.5	7762.9	7799.3
7937.6	15°	7828.4	7744.7	7653.7	7653.7	7719.3	7810.2	7853.9	7901.2	7923.1	7963.1
8210.6	17.5°	8086.8	7977.7	7857.6	7850.3	7930.3	7974.0	7999.5	8006.8	8014.1	8057.7
8476.3	20°	8345.2	8225.1	8054.1	8039.5	8057.7	8050.4	8046.8	8039.5	8050.4	8105.0
8749.2	22.5°	8600.0	8461.7	8225.1	8159.6	8108.7	8039.5	8035.9	8032.3	8039.5	8094.1
9044.0	25°	8898.4	8731.0	8414.4	8217.9	8046.8	7952.2	7963.1	7966.7	7974.0	8017.7
9349.7	27.5°	9222.3	9036.7	8589.1	8199.7	7890.3	7824.8	7806.6	7817.5	7843.0	7912.1
9655.4	30°	9546.3	9327.9	8749.2	8126.9	7693.8	7602.8	7544.6	7570.0	7650.1	7719.3
9921.1	32.5°	9841.1	9622.7	8876.6	7966.7	7442.7	7300.7	7224.3	7257.0	7337.1	7362.6
10215.9	35°	10186.8	9939.3	8931.2	7712.0	7169.7	6951.3	6849.4	6802.1	6842.2	6816.7
10561.7	37.5°	10572.6	10314.2	8923.9	7377.2	6849.4	6598.3	6456.4	6278.0	6194.3	6107.0
11071.2	40°	11144.0	10772.8	8836.6	6973.2	6452.7	6223.4	5968.7	5666.6	5477.4	5306.3
11893.7	42.5°	11922.8	11409.7	8676.4	6529.2	6005.1	5790.4	5444.6	5091.6	4793.1	4509.3
13142.0	45°	13083.8	12243.1	8476.3	6056.0	5521.0	5309.9	4935.1	4538.4	4199.9	3836.0
14914.4	47.5°	14757.9	13364.0	8287.0	5517.4	5011.5	4818.6	4480.2	4112.6	3712.2	3359.2
17476.6	50°	17058.1	14972.7	8112.3	4993.3	4509.3	4363.7	4094.4	3719.5	3315.5	3031.7
20479.1	52.5°	19984.2	17160.0	8039.5	4487.4	4039.8	3985.2	3770.5	3421.1	3038.9	2798.7
23980.3	55°	23343.4	19776.7	8039.5	4003.4	3628.5	3646.7	3497.5	3173.6	2842.4	2627.7
27590.6	57.5°	26771.7	22426.2	7894.0	3555.7	3279.1	3355.6	3260.9	2977.1	2678.6	2456.6
31386.6	60°	29930.8	24646.3	7304.4	3148.1	2969.8	3089.9	3028.0	2784.2	2420.2	2234.6
34560.2	62.5°	32358.3	25898.3	6168.9	2824.2	2715.0	2853.3	2820.6	2529.4	2372.9	2296.5
37166.0	65°	33573.9	25694.5	4716.7	2536.7	2500.3	2715.0	2645.9	2635.0	2511.2	2423.9
38014.0	67.5°	32827.8	23940.3	3421.1	2325.6	2376.6	2587.6	2853.3	2897.0	2667.7	2496.7
35626.5	70°	29555.9	20766.7	2547.6	2125.4	2220.1	2591.3	3253.7	3031.7	2616.8	2416.6
28573.3	72.5°	22484.5	15485.8	1976.2	1914.3	2016.3	2609.5	3432.0	2969.8	2471.2	2671.4
17800.5	75°	12858.2	8501.7	1586.8	1655.9	1761.5	2438.4	3341.0	2809.7	2358.4	2453.0
7053.2	77.5°	4902.3	3268.2	1310.2	1401.2	1415.7	2129.1	3195.4	2798.7	2245.5	2190.9
2114.5	80°	1699.6	1277.4	1084.6	1113.7	1095.5	1892.5	3064.4	2434.8	1837.9	1645.0
873.5	82.5°	695.1	636.9	858.9	822.5	778.8	1470.3	2474.8	1990.8	1503.1	1328.4
422.2	85°	302.1	404.0	567.8	498.6	451.3	1019.0	1983.5	1685.1	1270.2	1095.5
138.3	87.5°	61.9	152.9	240.2	225.6	232.9	680.6	1408.5	1197.4	898.9	673.3
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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<u>180°</u>
6969.5
6951.3
7086.0
7315.3
7573.7
7813.9
7977.7
8072.3
8126.9
8130.5
8075.9
7981.3
7795.7
7453.6
6896.7
6161.6
5317.2
4483.8
3792.3
3319.2
3013.5
2780.5
2605.8
2420.2
2205.5
2271.0
2394.8
2467.5
2383.8
2649.5
2453.0
1998.1
1590.4
1313.8
1091.8
527.7
0.0

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