

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: P942015

Luminaire Tested: **GALN-SB5D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44290 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

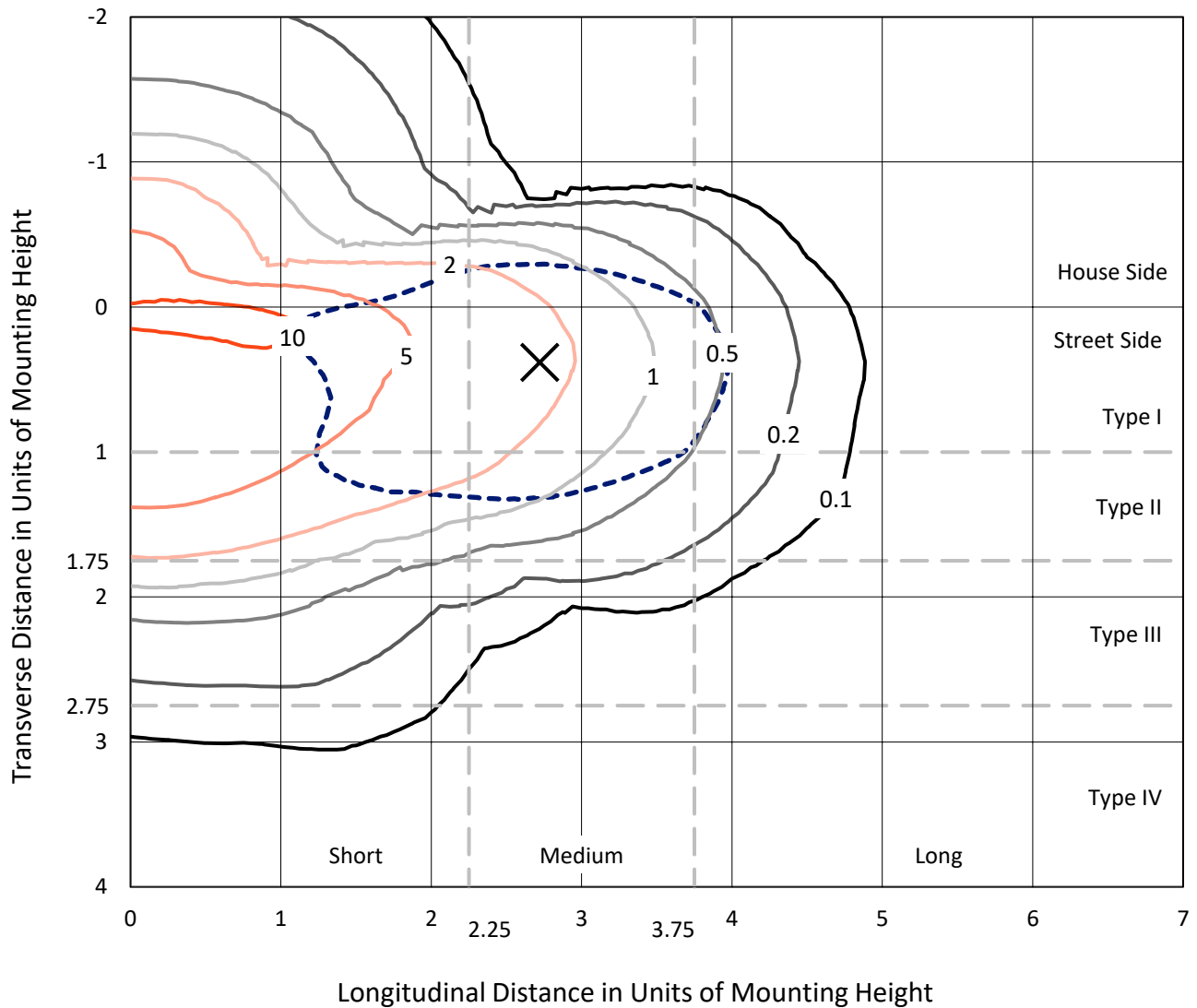
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

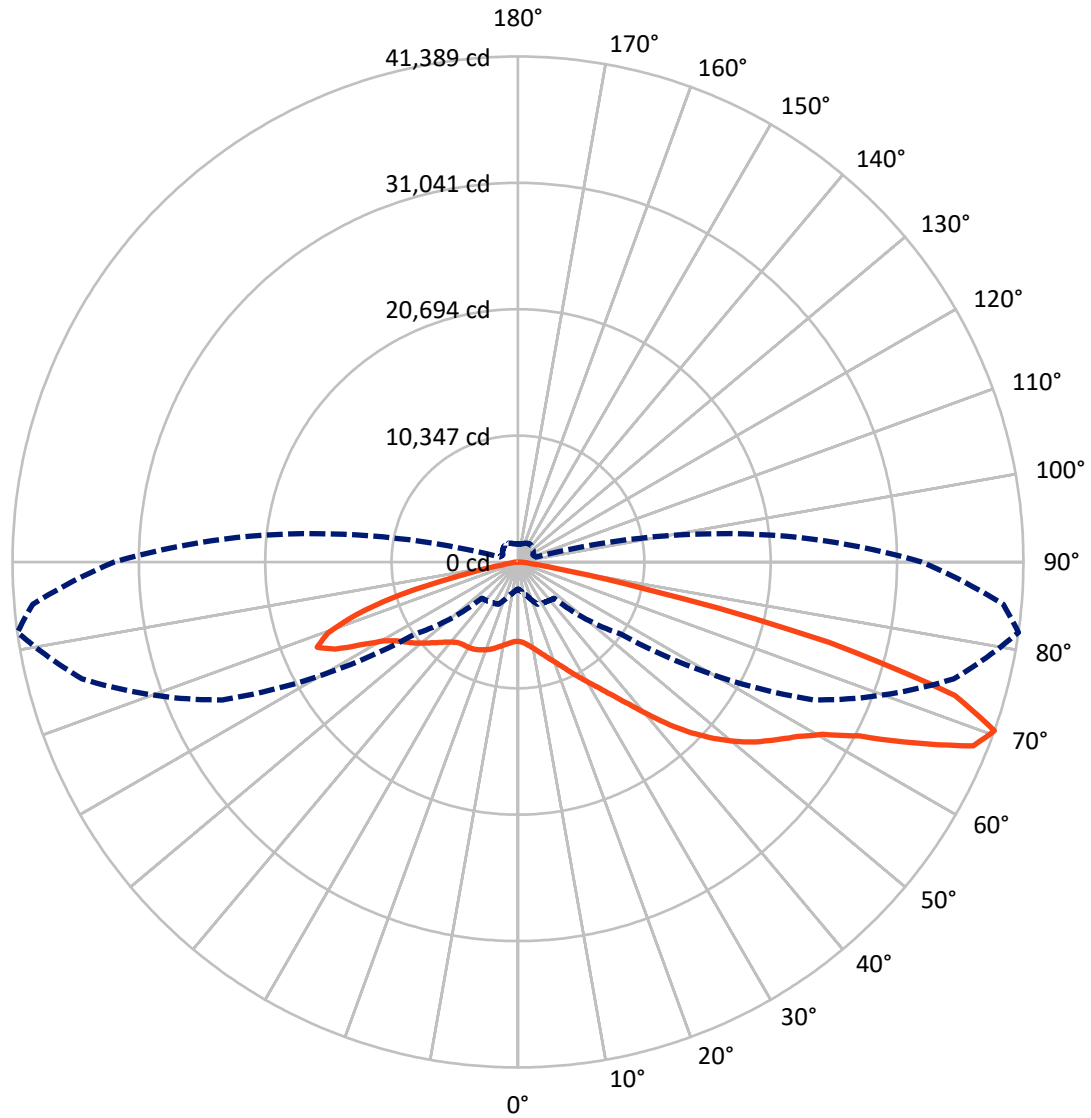
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10918.6	0.0	10918.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	33371.4	0.0	33371.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	44290.0	0.0	44290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.1	1.4
10°-20°	1761.5	4.0
20°-30°	2946.8	6.7
30°-40°	4603.6	10.4
40°-50°	7331.8	16.6
50°-60°	10203.0	23.0
60°-70°	10672.8	24.1
70°-80°	5578.2	12.6
80°-90°	579.2	1.3
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°	44290.0	100.0
0°-180°	44290.0	100.0

Coefficient of Utilization



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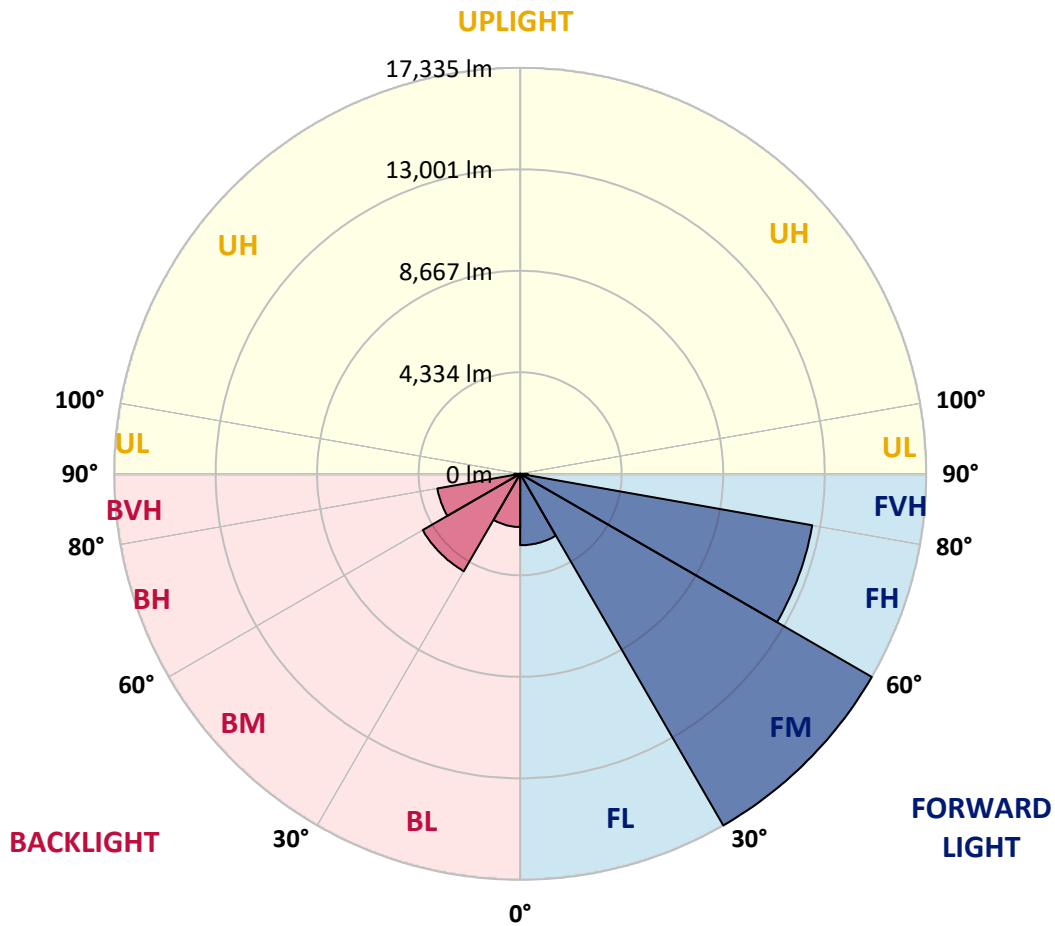
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3049.9	6.9			
FM (30°-60°)	17334.7	39.1			
FH (60°-80°)	12662.6	28.6			G5
FVH (80°-90°)	324.3	0.7			G3/500
BL (0°-30°)	2271.5	5.1	B3/2500		
BM (30°-60°)	4803.7	10.8	B3/5000		
BH (60°-80°)	3588.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	255.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5
2.5°	6648.6	6686.2	6674.4	6662.7	6662.7	6646.2	6643.9	6620.4	6601.6	6571.0
5°	6733.2	6773.1	6768.4	6777.8	6808.4	6815.4	6822.5	6808.4	6770.8	6733.2
7.5°	6658.0	6702.6	6716.7	6773.1	6867.1	6951.7	7015.2	7041.1	7005.8	6951.7
10°	6404.2	6453.5	6502.9	6636.8	6803.7	7003.5	7172.7	7273.7	7266.7	7215.0
12.5°	5889.5	5941.2	6046.9	6307.8	6613.3	6965.8	7280.8	7492.3	7565.1	7527.5
15°	5478.2	5522.9	5602.8	5870.7	6267.9	6803.7	7320.7	7732.0	7917.7	7896.5
17.5°	5466.5	5485.3	5534.6	5661.5	5967.0	6549.9	7278.4	7967.0	8321.9	8319.5
20°	5673.3	5680.3	5708.5	5734.4	5908.3	6357.2	7170.3	8162.1	8775.5	8775.5
22.5°	5960.0	5955.3	5983.5	5960.0	6044.6	6340.7	7102.2	8333.6	9280.7	9318.3
25°	6390.1	6366.6	6359.5	6305.5	6321.9	6493.5	7177.4	8528.7	9880.0	9957.6
27.5°	6963.5	6925.9	6900.0	6775.5	6733.2	6808.4	7407.7	8763.7	10547.5	10681.4
30°	7710.8	7642.7	7605.1	7388.9	7236.1	7247.9	7755.5	9076.3	11245.5	11461.7
32.5°	8730.8	8625.1	8524.0	8169.1	7889.5	7797.8	8204.4	9508.7	12002.2	12347.7
35°	9873.0	9788.4	9680.3	9132.7	8702.6	8491.1	8810.7	10112.7	12888.2	13435.8
37.5°	10972.9	10900.0	10951.7	10213.8	9659.1	9351.3	9605.1	10923.5	13981.0	14789.5
40°	12110.3	12053.9	12061.0	11355.9	10709.6	10364.2	10568.6	11941.1	15233.7	16399.4
42.5°	13346.5	13304.2	13163.2	12538.1	11811.9	11489.9	11677.9	13116.2	16578.0	18232.5
45°	14730.7	14704.9	14573.3	13856.5	13024.5	12662.6	12916.4	14413.5	17929.3	19957.5
47.5°	15927.0	15948.1	15931.7	15327.7	14465.2	13934.0	14237.2	15767.2	19186.6	21579.1
50°	16502.8	16613.2	16775.4	16587.4	16051.5	15511.0	15569.8	17073.8	20385.2	23099.6
52.5°	16201.9	16411.1	16852.9	17153.8	17360.6	17247.8	17090.3	18371.1	21513.3	24472.1
55°	15080.9	15374.7	16107.9	16834.1	17889.4	18709.6	18916.4	19809.4	22613.2	25680.1
57.5°	13038.6	13515.7	14173.8	15642.6	17419.3	19416.9	21045.6	21804.7	23778.8	26970.3
60°	9536.9	10176.2	10994.0	13179.6	15774.2	19038.6	22857.6	24869.3	25435.7	28641.3
62.5°	6103.3	6498.2	7250.2	9308.9	12291.3	17099.7	23412.2	28700.0	28244.1	31381.6
65°	4178.6	4432.4	5121.0	6277.3	7945.9	12728.4	21926.9	31571.9	32704.7	35724.6
67.5°	3036.4	3229.1	3816.6	4829.6	5177.4	7532.2	17015.1	31440.3	37040.7	40199.3
70°	2213.8	2350.2	2843.7	3816.6	3983.5	4190.3	10307.8	26725.9	36946.7	41388.5
72.5°	1640.4	1734.4	2065.8	2961.2	3224.4	2829.6	5102.2	19424.0	31748.2	37435.6
75°	1186.8	1257.3	1501.7	2265.5	2580.5	2155.1	2545.2	11351.2	22145.5	26333.4
77.5°	907.2	961.2	1121.0	1659.2	2065.8	1616.9	1579.3	5222.0	10500.5	10552.2
80°	728.5	763.8	850.8	1168.0	1584.0	1210.3	1029.4	2108.1	3318.4	2808.4
82.5°	535.8	594.6	719.1	820.2	1132.8	834.3	627.5	1064.6	1262.0	1085.8
85°	305.5	345.5	434.8	587.5	723.8	510.0	359.6	472.4	587.5	481.8
87.5°	108.1	141.0	152.8	230.3	314.9	211.5	138.7	136.3	192.7	143.4
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°
6493.5	0°	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5	6493.5
6564.0	2.5°	6540.5	6528.7	6481.7	6418.3	6352.5	6289.0	6267.9	6223.2	6192.6	6176.2
6716.7	5°	6672.1	6634.5	6524.0	6383.0	6235.0	6075.1	5962.3	5858.9	5783.7	5713.2
6925.9	7.5°	6860.1	6794.3	6603.9	6357.2	6093.9	5828.4	5631.0	5480.6	5379.5	5313.7
7170.3	10°	7078.7	6977.6	6686.2	6317.2	5910.6	5529.9	5297.2	5168.0	5104.5	5069.3
7450.0	12.5°	7330.1	7186.8	6770.8	6225.6	5631.0	5196.2	5036.4	4998.8	5001.1	5003.5
7802.5	15°	7640.3	7440.6	6838.9	6025.8	5266.7	4940.0	4911.8	4972.9	5036.4	5066.9
8202.0	17.5°	7990.5	7708.5	6850.7	5696.8	4909.5	4775.5	4864.8	4996.4	5092.8	5135.1
8648.6	20°	8366.5	7981.1	6766.1	5231.4	4615.7	4641.5	4801.4	4970.6	5076.3	5130.4
9158.5	22.5°	8796.6	8272.5	6564.0	4742.6	4376.0	4495.8	4683.9	4848.4	4958.8	5012.9
9757.8	25°	9287.8	8599.2	6246.7	4331.3	4169.2	4331.3	4519.3	4655.6	4745.0	4794.3
10427.6	27.5°	9833.0	8940.0	5823.7	4004.7	3988.2	4162.1	4317.2	4423.0	4470.0	4507.6
11139.7	30°	10380.6	9250.2	5311.3	3757.9	3830.7	3995.3	4105.7	4152.7	4166.8	4173.9
11934.1	32.5°	10972.9	9518.1	4773.2	3553.4	3680.3	3833.1	3898.9	3920.1	3854.2	3809.6
12897.6	35°	11689.7	9804.8	4246.7	3391.3	3532.3	3663.9	3685.0	3666.2	3588.7	3497.0
14105.6	37.5°	12575.7	10162.1	3826.0	3276.1	3393.6	3480.6	3454.7	3450.0	3457.1	3349.0
15558.0	40°	13661.4	10627.4	3518.2	3186.8	3280.8	3299.6	3226.8	3266.7	3302.0	3137.5
17151.4	42.5°	14867.1	11189.1	3323.1	3125.7	3186.8	3142.2	3029.3	3074.0	3069.3	2853.1
18751.9	45°	16096.2	11800.1	3255.0	3081.0	3099.8	3010.5	2886.0	2897.7	2799.0	2604.0
20286.5	47.5°	17318.3	12455.8	3297.3	3043.4	2991.7	2890.7	2794.3	2742.6	2596.9	2451.2
21757.7	50°	18516.8	13144.4	3452.4	2968.2	2843.7	2784.9	2714.4	2622.8	2467.7	2343.1
23149.0	52.5°	19628.5	13837.7	3626.3	2843.7	2658.0	2693.3	2648.6	2542.9	2390.1	2263.2
24465.1	55°	20681.3	14531.0	3694.4	2672.1	2484.1	2613.4	2587.5	2392.5	2209.1	2105.7
25842.3	57.5°	21828.2	15365.3	3619.2	2453.6	2343.1	2521.7	2423.0	2206.8	2101.0	2023.5
27635.4	60°	23416.9	16674.3	3457.1	2183.3	2209.1	2385.4	2216.2	2126.9	2011.7	1924.8
30324.0	62.5°	26056.1	19116.1	3196.2	1915.4	2051.7	2183.3	2117.5	2028.2	1910.7	1826.1
34920.9	65°	29957.4	22509.7	2705.0	1706.2	1875.4	1985.9	2011.7	1922.4	1800.2	1710.9
38949.1	67.5°	33247.6	24639.0	2047.0	1532.3	1694.5	1826.1	1898.9	1812.0	1682.7	1595.8
39891.5	70°	33066.6	23092.6	1562.9	1360.7	1534.6	1668.6	1762.6	1694.5	1555.8	1473.5
36234.6	72.5°	29369.8	19318.2	1264.4	1186.8	1372.5	1504.1	1616.9	1565.2	1424.2	1344.3
26545.0	75°	21576.7	13713.1	1010.6	1010.6	1170.4	1332.5	1457.1	1424.2	1294.9	1238.5
11144.4	77.5°	9095.1	5753.2	792.0	839.0	973.0	1144.5	1299.6	1311.4	1198.6	1269.1
2947.1	80°	2418.3	1586.4	604.0	660.4	763.8	944.8	1130.4	1125.7	1003.5	937.7
1095.2	82.5°	921.3	625.1	430.1	465.3	552.3	723.8	895.4	923.6	801.4	693.3
430.1	85°	354.9	267.9	265.6	279.7	322.0	479.4	676.8	700.3	604.0	512.3
119.9	87.5°	91.7	79.9	98.7	94.0	148.1	256.2	387.8	401.9	369.0	213.9
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>
6493.5
6195.0
5741.4
5327.8
5078.7
5008.2
5064.6
5144.5
5144.5
5027.0
4808.4
4521.7
4190.3
3823.7
3501.7
3356.0
3142.2
2850.7
2611.0
2451.2
2333.7
2265.5
2096.3
2016.4
1920.1
1826.1
1715.6
1598.1
1480.6
1344.3
1222.1
1151.6
871.9
693.3
528.8
305.5
0.0

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