

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: P955714

Luminaire Tested: **GALN-SB8C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54085 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

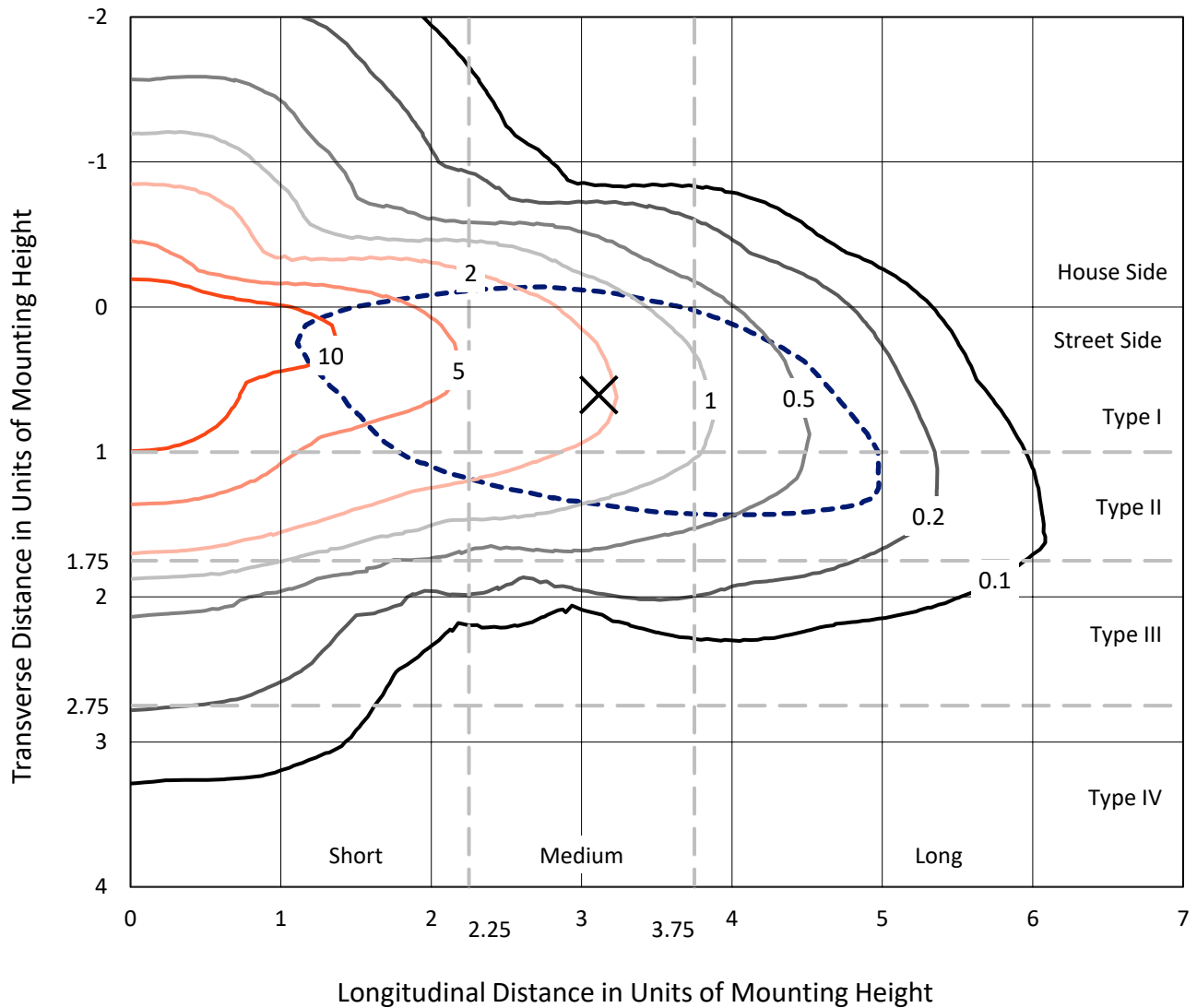
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955714
 CATALOG NUMBER: GALN-SB8C-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

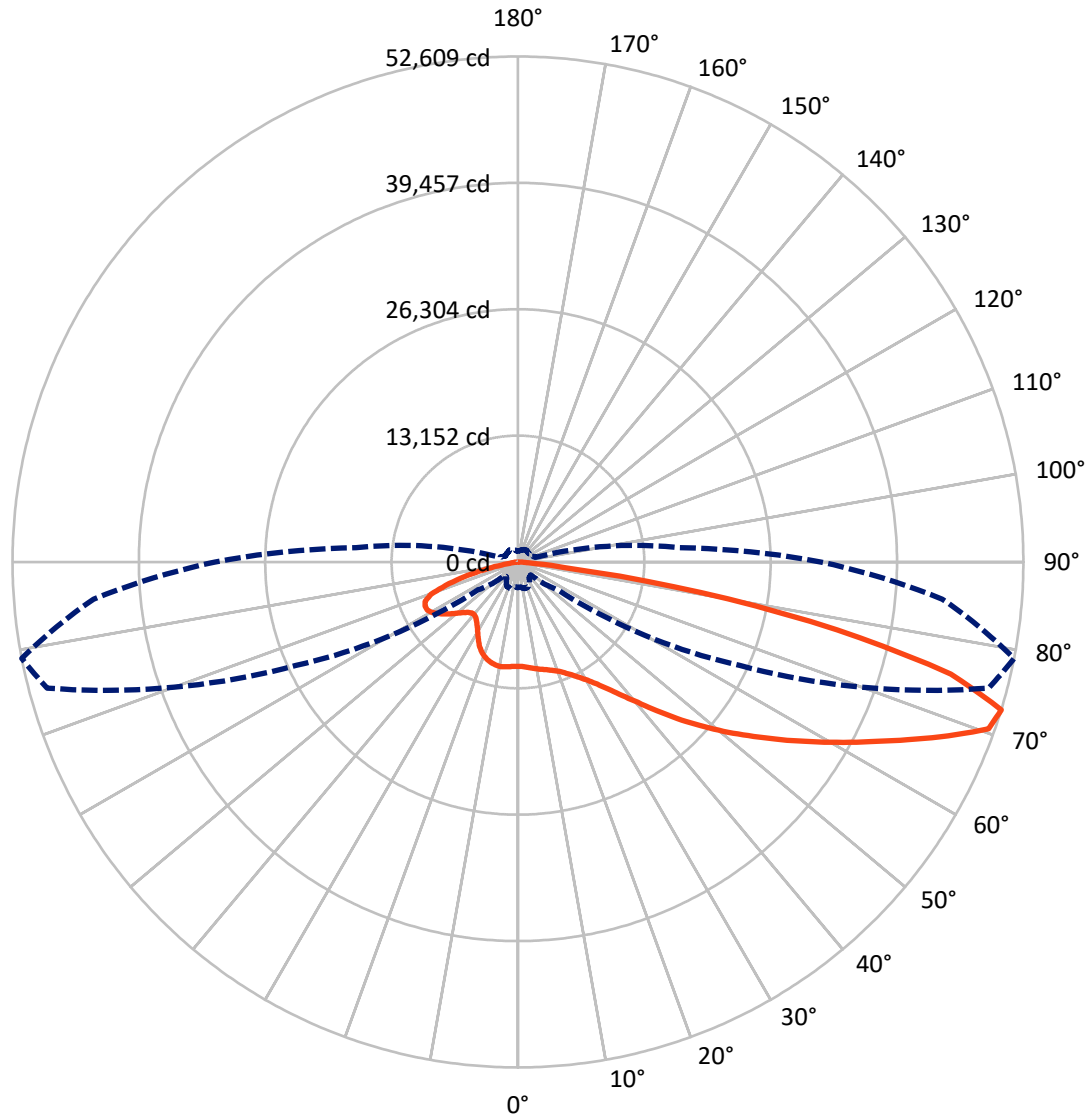
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P955714
CATALOG NUMBER: GALN-SB8C-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P955714

CATALOG NUMBER: GALN-SB8C-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11901.7	0.0	11901.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	42183.3	0.0	42183.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	54085.0	0.0	54085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.5	1.8
10°-20°	2576.6	4.8
20°-30°	4157.6	7.7
30°-40°	6240.0	11.5
40°-50°	8851.7	16.4
50°-60°	11178.5	20.7
60°-70°	11353.3	21.0
70°-80°	7737.8	14.3
80°-90°	1003.9	1.9
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°	54085.0	100.0
0°-180°	54085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955714

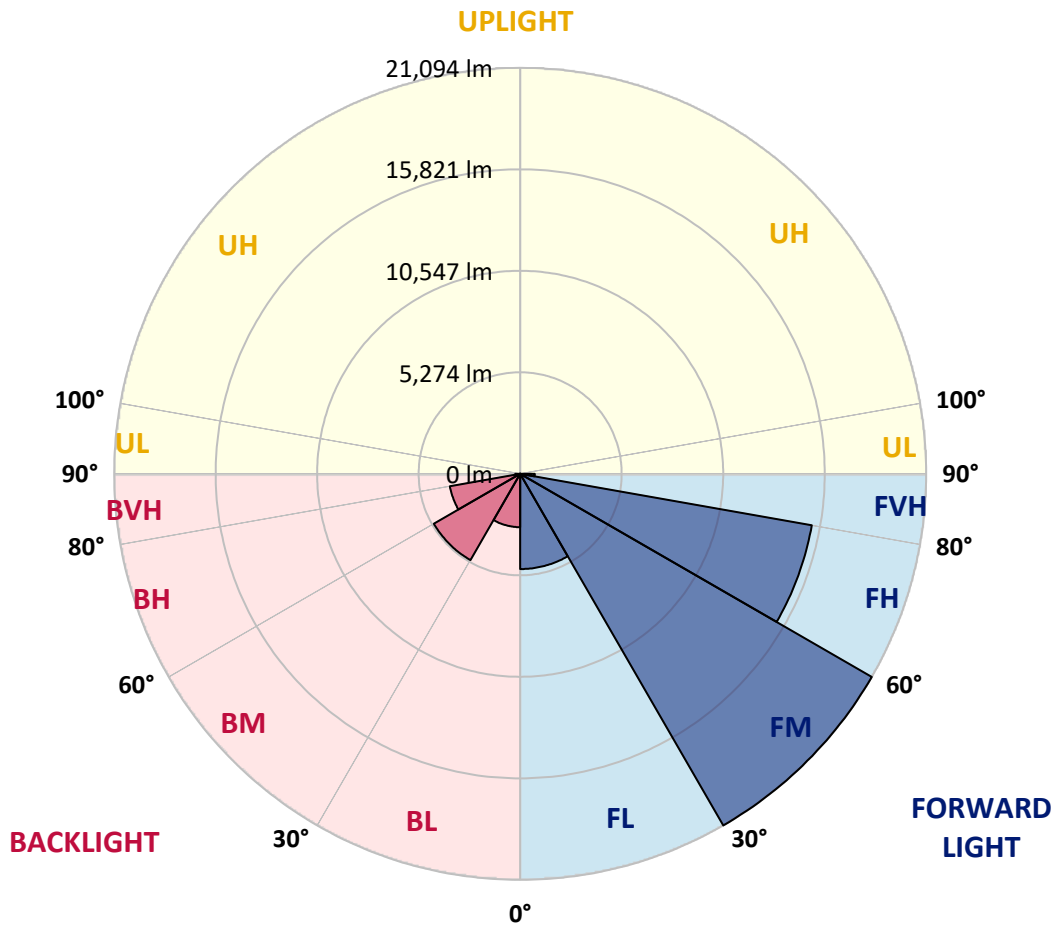
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4947.5	9.1			
FM (30°-60°)	21094.2	39.0			
FH (60°-80°)	15385.4	28.4			G5
FVH (80°-90°)	756.3	1.4			G5
BL (0°-30°)	2772.2	5.1	B4/5000		
BM (30°-60°)	5176.0	9.6	B4/8500		
BH (60°-80°)	3705.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	247.7	0.5			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



REPORT NUMBER: P955714

CATALOG NUMBER: GALN-SB8C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0
2.5°	10862.8	10811.3	10842.7	10831.3	10845.6	10862.8	10868.5	10877.1	10905.7	10902.8
5°	10839.9	10788.4	10831.3	10817.0	10854.2	10894.2	10928.6	10960.0	11005.8	11025.8
7.5°	10791.2	10756.9	10799.8	10842.7	10911.4	10971.5	11020.1	11091.6	11157.4	11168.9
10°	10508.0	10482.3	10582.4	10694.0	10882.8	11045.9	11151.7	11234.7	11306.2	11317.7
12.5°	10213.4	10181.9	10293.5	10445.1	10751.2	11045.9	11269.0	11377.7	11440.7	11477.9
15°	10164.7	10139.0	10201.9	10333.5	10588.1	10968.6	11349.1	11549.4	11603.7	11646.7
17.5°	10399.3	10350.7	10376.4	10422.2	10571.0	10897.1	11412.1	11743.9	11826.9	11872.7
20°	10942.9	10874.2	10834.2	10742.6	10716.9	10908.5	11406.3	11978.5	12087.2	12144.4
22.5°	11666.7	11620.9	11535.1	11303.3	11051.6	11048.7	11515.1	12278.9	12482.0	12536.4
25°	12542.1	12473.4	12364.7	12050.0	11566.5	11326.2	11698.1	12662.3	13002.7	13017.0
27.5°	13549.1	13446.1	13297.4	12882.6	12230.3	11761.1	11978.5	13102.8	13600.6	13594.9
30°	14610.5	14507.5	14350.2	13846.7	13025.6	12347.6	12367.6	13577.7	14310.1	14278.7
32.5°	15385.8	15308.6	15277.1	14888.0	13941.1	13039.9	12813.9	14104.2	15185.6	15157.0
35°	15980.9	15880.8	15918.0	15720.5	14939.5	13815.2	13360.3	14730.7	16249.8	16247.0
37.5°	16570.2	16481.5	16513.0	16381.4	15863.6	14799.3	14026.9	15497.4	17568.7	17631.6
40°	17108.1	17013.7	17139.5	17016.5	16581.7	15846.4	14785.0	16364.2	19096.4	19216.5
42.5°	17431.4	17357.0	17565.8	17568.7	17205.3	16730.4	15617.6	17319.8	20864.4	21133.3
45°	17542.9	17517.2	17831.9	17897.7	17757.5	17242.5	16367.1	18361.1	22769.8	23250.4
47.5°	17422.8	17374.1	17809.0	18052.2	18163.7	17482.9	16987.9	19488.3	24715.2	25418.9
50°	16816.3	16721.9	17368.4	17880.5	18278.2	17640.2	17614.5	20790.0	26926.6	27696.2
52.5°	15726.3	15654.7	16390.0	17279.7	18026.4	17717.4	18318.2	22211.9	29026.5	30022.1
55°	14333.0	14238.6	15048.2	16209.8	17399.9	17691.7	19022.0	23802.5	31504.0	32513.9
57.5°	12124.4	11935.6	12959.8	14333.0	16378.6	17660.2	19754.4	25384.6	34021.6	35231.8
60°	8903.1	8622.7	9878.6	11506.5	14381.7	17354.1	20661.3	27158.4	37042.7	38132.7
62.5°	5183.9	5020.8	5841.9	7361.1	10839.9	15551.8	21170.5	29221.1	40012.3	41156.7
65°	4025.3	3979.5	4051.0	4168.3	6033.6	11643.8	19599.9	31232.3	43788.7	44589.7
67.5°	3682.0	3647.6	3679.1	3458.8	3061.1	6485.6	15506.0	31741.5	47834.0	48320.3
70°	3272.8	3232.8	3335.8	3147.0	2408.9	2949.6	10018.8	29893.4	51052.5	51965.1
72.5°	2666.3	2620.6	2860.9	2775.1	2028.4	1893.9	5032.3	25501.9	50714.9	52608.8
75°	2048.4	2022.6	2308.7	2380.3	1653.6	1490.5	2414.6	18956.2	44629.8	46538.0
77.5°	1590.7	1570.6	1716.5	1976.9	1333.2	1155.8	1484.8	12024.3	33632.5	33967.3
80°	1193.0	1135.8	1270.2	1530.6	1038.5	844.0	1007.0	7012.0	21259.2	19270.9
82.5°	746.7	718.1	829.7	1021.3	732.4	580.8	655.1	3873.6	8519.7	5018.0
85°	426.3	414.8	452.0	583.6	397.7	334.7	374.8	1710.8	1556.3	1070.0
87.5°	171.7	165.9	206.0	260.3	145.9	123.0	131.6	412.0	343.3	317.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955714
 CATALOG NUMBER: GALN-SB8C-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10857.0	0°	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0	10857.0
10900.0	2.5°	10888.5	10888.5	10848.5	10785.5	10714.0	10668.2	10593.8	10573.8	10496.6	10473.7
10997.2	5°	11020.1	10997.2	10874.2	10696.8	10453.7	10230.5	9984.5	9830.0	9612.6	9535.3
11188.9	7.5°	11186.1	11123.1	10911.4	10522.3	10013.1	9512.4	8991.8	8597.0	8219.3	8084.9
11346.3	10°	11337.7	11249.0	10888.5	10207.6	9326.5	8459.6	7630.0	7049.2	6608.6	6428.4
11520.8	12.5°	11489.3	11326.2	10736.9	9684.1	8350.9	7175.1	6291.1	5839.1	5567.3	5349.9
11663.8	15°	11632.3	11403.5	10502.3	8983.2	7280.9	6088.0	5435.7	5075.2	4857.8	4714.7
11872.7	17.5°	11798.3	11469.3	10150.4	8093.4	6262.5	5335.5	4803.4	4586.0	4543.1	4525.9
12158.8	20°	12030.0	11529.4	9686.9	7097.8	5512.9	4734.8	4460.1	4440.1	4437.2	4428.6
12502.1	22.5°	12278.9	11600.9	9074.7	6193.8	4874.9	4360.0	4311.4	4271.3	4245.5	4242.7
12916.9	25°	12573.6	11623.8	8308.0	5452.8	4331.4	4182.6	4125.4	4065.3	4048.1	4048.1
13388.9	27.5°	12859.7	11546.5	7415.4	4809.1	4025.3	4019.5	3945.2	3925.1	3922.3	3930.9
13926.8	30°	13145.8	11400.6	6528.5	4214.1	3847.9	3847.9	3822.1	3836.4	3847.9	3876.5
14664.9	32.5°	13532.0	11246.1	5787.6	3773.5	3693.4	3664.8	3690.5	3719.1	3730.6	3767.8
15634.7	35°	14098.4	11137.4	5198.2	3533.2	3533.2	3496.0	3510.3	3504.6	3478.8	3461.7
16807.7	37.5°	14848.0	11131.7	4711.9	3421.6	3398.7	3393.0	3395.9	3358.7	3258.5	3138.4
18226.7	40°	15749.2	11286.2	4337.1	3344.4	3327.2	3361.5	3344.4	3244.2	2969.6	2760.8
19971.8	42.5°	16959.3	11726.8	4096.8	3250.0	3301.5	3344.4	3275.7	2929.5	2743.6	2603.4
21960.1	45°	18384.0	12442.0	3973.8	3149.8	3252.8	3304.3	2972.5	2820.8	2672.1	2503.3
24128.7	47.5°	19997.6	13343.2	3945.2	3055.4	3144.1	3175.6	2843.7	2775.1	2606.3	2423.2
26308.7	50°	21754.2	14410.3	4022.4	2943.8	2986.8	2878.0	2800.8	2737.9	2563.4	2383.1
28543.0	52.5°	23570.8	15586.1	4176.9	2792.2	2829.4	2709.3	2783.6	2729.3	2537.6	2294.4
30851.8	55°	25356.0	16770.5	4325.7	2614.8	2669.2	2557.6	2735.0	2695.0	2420.3	2145.7
33315.0	57.5°	27169.8	17949.2	4471.6	2457.5	2514.7	2411.7	2657.8	2603.4	2288.7	2008.3
36004.2	60°	29055.1	19093.5	4540.2	2305.9	2345.9	2277.3	2540.5	2446.1	2139.9	1868.2
38647.7	62.5°	30820.3	20046.2	4428.6	2154.2	2180.0	2151.4	2386.0	2260.1	1991.2	1710.8
41402.7	65°	32591.2	20612.7	4085.3	2005.5	2011.2	1996.9	2168.5	2059.8	1816.7	1573.5
43814.4	67.5°	34196.1	20930.2	3538.9	1845.3	1831.0	1825.2	1965.4	1842.4	1647.9	1436.2
45648.2	70°	34536.6	20123.4	2703.5	1656.5	1656.5	1642.1	1742.3	1616.4	1461.9	1290.3
44335.1	72.5°	31544.1	16927.8	1919.7	1441.9	1464.8	1436.2	1519.1	1413.3	1273.1	1158.7
38209.9	75°	25436.1	12413.4	1396.1	1221.6	1261.6	1213.0	1290.3	1215.9	1095.7	1092.9
26331.6	77.5°	17477.1	7675.7	1012.8	1007.0	1035.6	972.7	1061.4	1021.3	912.6	864.0
11460.7	80°	7458.3	3061.1	738.1	778.2	778.2	720.9	823.9	835.4	741.0	718.1
2211.5	82.5°	1484.8	869.7	517.8	535.0	503.5	486.4	583.6	646.6	892.6	992.7
666.6	85°	446.3	320.4	311.8	291.8	257.5	260.3	343.3	649.4	801.0	457.7
220.3	87.5°	123.0	80.1	83.0	65.8	54.4	71.5	117.3	492.1	268.9	114.4
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°
10857.0
10510.9
9592.5
8102.0
6468.5
5421.4
4740.5
4537.4
4457.3
4274.2
4065.3
3953.7
3896.5
3799.3
3501.7
3141.2
2755.0
2597.7
2491.8
2408.9
2363.1
2277.3
2131.4
2002.6
1859.6
1707.9
1556.3
1419.0
1284.5
1124.3
984.1
809.6
718.1
995.6
394.8
97.3
0.0

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