

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: P947041

Luminaire Tested: **GALN-SB2C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947041
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-SB2C-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 14886 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

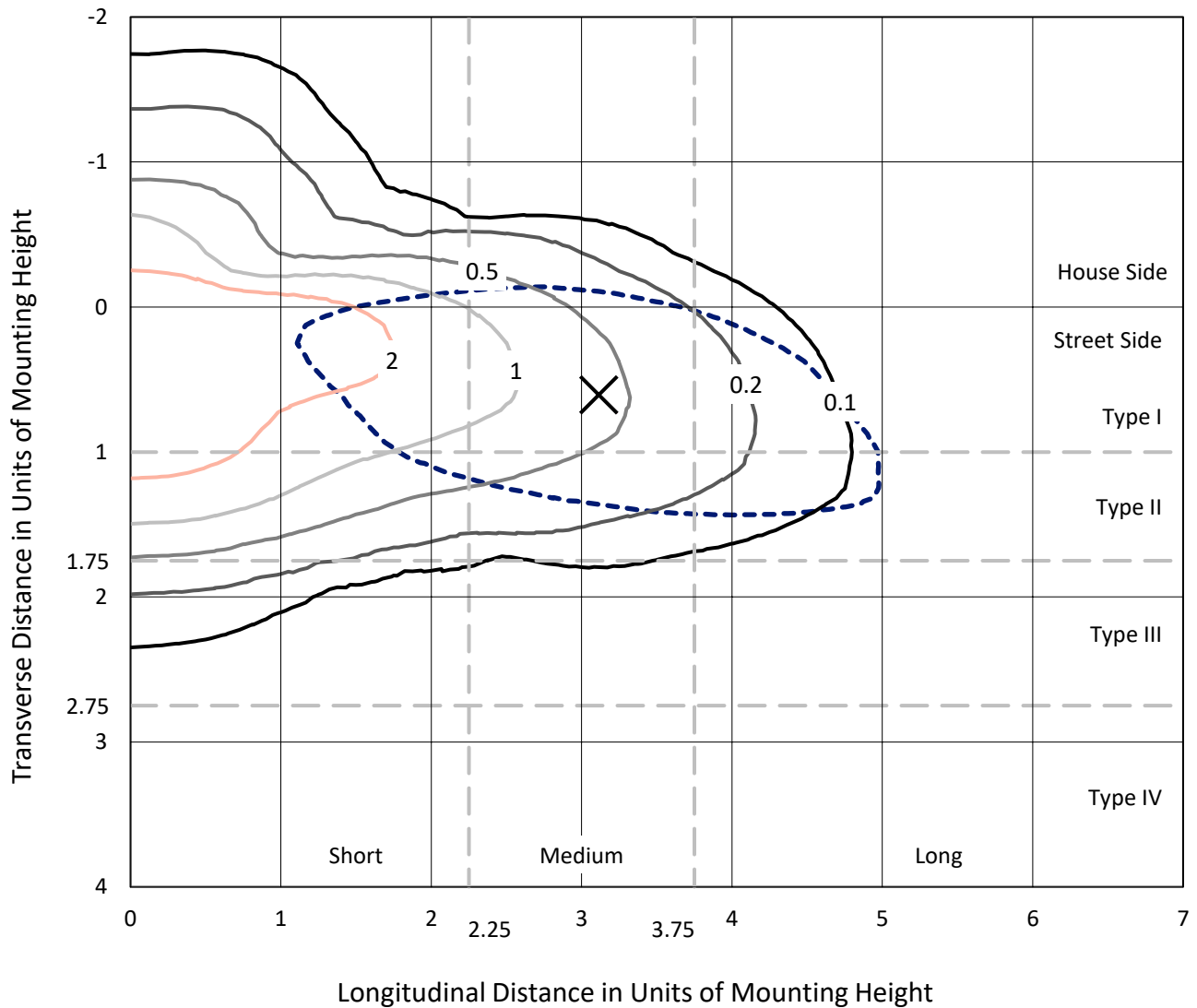
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947041
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Iso-Footcandle Lines of Horizontal Illumination

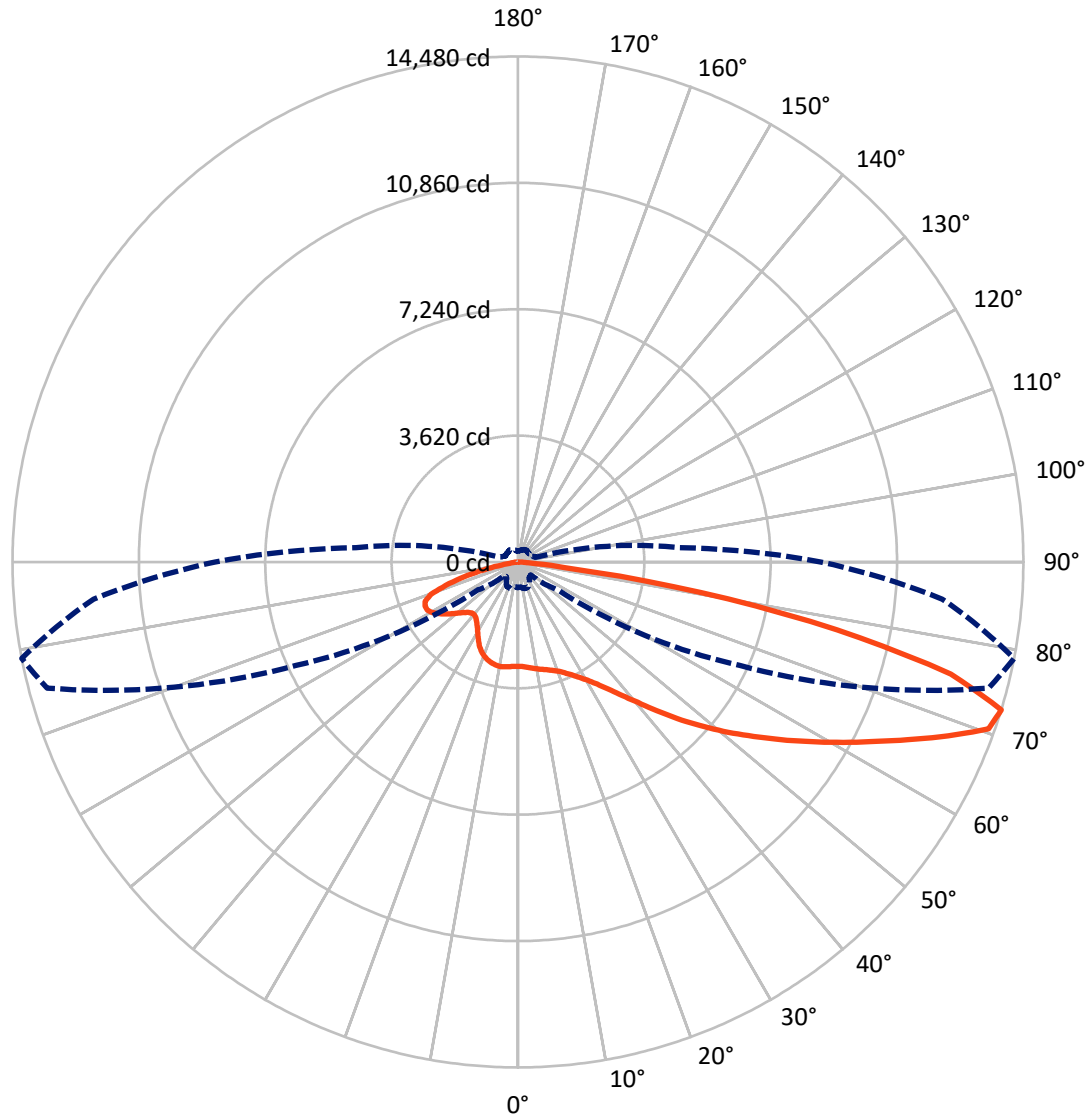
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P947041
CATALOG NUMBER: GALN-SB2C-735-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P947041

CATALOG NUMBER: GALN-SB2C-735-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3275.7	0.0	3275.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11610.3	0.0	11610.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	14886.0	0.0	14886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	1.8
10°-20°	709.2	4.8
20°-30°	1144.3	7.7
30°-40°	1717.4	11.5
40°-50°	2436.3	16.4
50°-60°	3076.7	20.7
60°-70°	3124.8	21.0
70°-80°	2129.7	14.3
80°-90°	276.3	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°	14886.0	100.0
0°-180°	14886.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947041

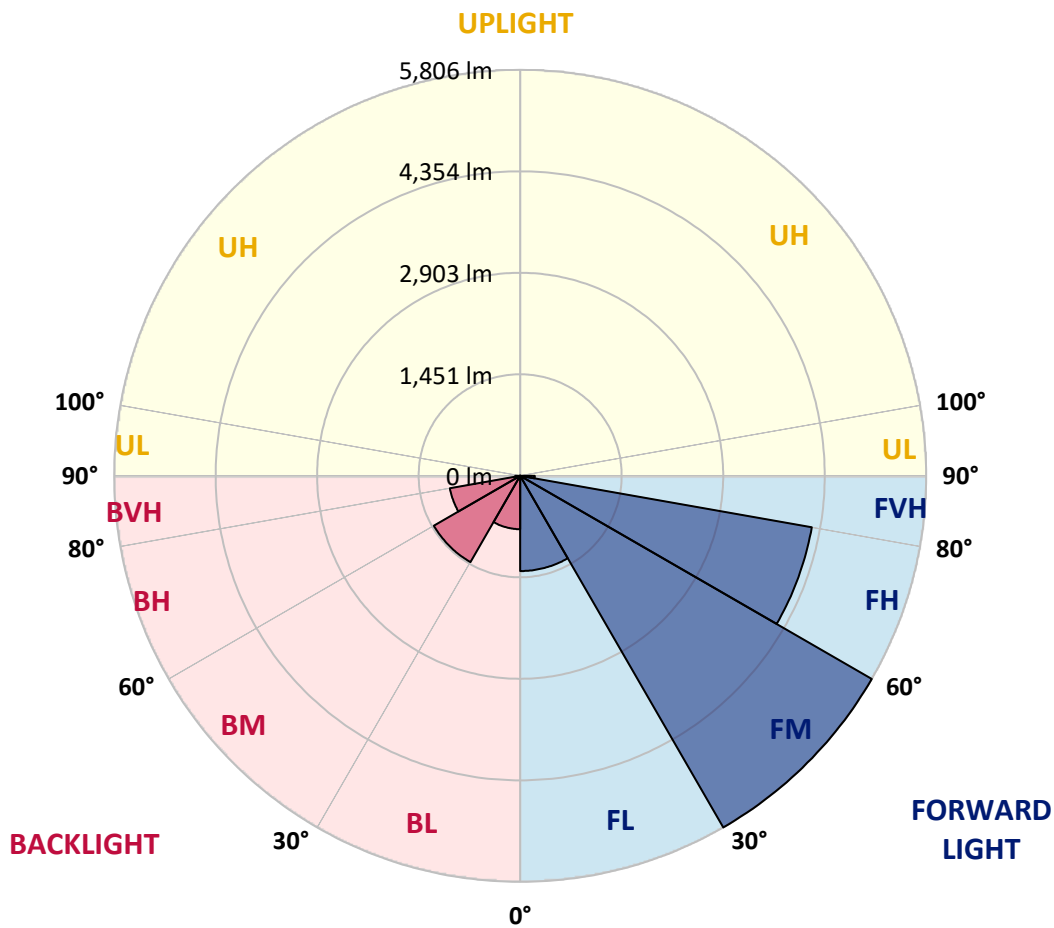
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.7	9.1			
FM (30°-60°)	5805.8	39.0			
FH (60°-80°)	4234.6	28.4			G2/5000
FVH (80°-90°)	208.1	1.4			G2/225
BL (0°-30°)	763.0	5.1	B2/1000		
BM (30°-60°)	1424.6	9.6	B2/2500		
BH (60°-80°)	1020.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	68.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P947041

CATALOG NUMBER: GALN-SB2C-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2
2.5°	2989.8	2975.6	2984.3	2981.1	2985.1	2989.8	2991.4	2993.7	3001.6	3000.8
5°	2983.5	2969.3	2981.1	2977.2	2987.4	2998.5	3007.9	3016.6	3029.2	3034.7
7.5°	2970.1	2960.7	2972.5	2984.3	3003.2	3019.7	3033.1	3052.8	3070.9	3074.1
10°	2892.2	2885.1	2912.6	2943.3	2995.3	3040.2	3069.3	3092.2	3111.8	3115.0
12.5°	2811.1	2802.4	2833.1	2874.8	2959.1	3040.2	3101.6	3131.5	3148.9	3159.1
15°	2797.7	2790.6	2807.9	2844.1	2914.2	3018.9	3123.7	3178.8	3193.7	3205.5
17.5°	2862.2	2848.9	2855.9	2868.5	2909.5	2999.2	3141.0	3232.3	3255.2	3267.8
20°	3011.8	2992.9	2981.9	2956.7	2949.6	3002.4	3139.4	3296.9	3326.8	3342.6
22.5°	3211.1	3198.5	3174.8	3111.1	3041.8	3041.0	3169.3	3379.6	3435.5	3450.4
25°	3452.0	3433.1	3403.2	3316.6	3183.5	3117.4	3219.7	3485.1	3578.8	3582.7
27.5°	3729.2	3700.8	3659.9	3545.7	3366.2	3237.0	3296.9	3606.3	3743.3	3741.8
30°	4021.3	3993.0	3949.7	3811.1	3585.1	3398.5	3404.0	3737.1	3938.6	3930.0
32.5°	4234.7	4213.4	4204.8	4097.7	3837.1	3589.0	3526.8	3881.9	4179.6	4171.7
35°	4398.5	4370.9	4381.2	4326.8	4111.9	3802.4	3677.2	4054.4	4472.5	4471.7
37.5°	4560.7	4536.3	4544.9	4508.7	4366.2	4073.3	3860.7	4265.4	4835.5	4852.8
40°	4708.7	4682.7	4717.4	4683.5	4563.8	4361.5	4069.3	4504.0	5256.0	5289.0
42.5°	4797.7	4777.2	4834.7	4835.5	4735.5	4604.8	4298.5	4767.0	5742.6	5816.6
45°	4828.4	4821.3	4907.9	4926.0	4887.5	4745.7	4504.8	5053.6	6267.0	6399.3
47.5°	4795.3	4781.9	4901.6	4968.6	4999.3	4811.9	4675.6	5363.8	6802.4	6996.1
50°	4628.4	4602.4	4780.4	4921.3	5030.8	4855.2	4848.1	5722.1	7411.1	7622.9
52.5°	4328.4	4308.7	4511.1	4756.0	4961.5	4876.4	5041.8	6113.5	7989.1	8263.1
55°	3944.9	3918.9	4141.8	4461.5	4789.0	4869.3	5235.5	6551.3	8671.0	8948.9
57.5°	3337.0	3285.1	3567.0	3944.9	4507.9	4860.7	5437.1	6986.7	9363.9	9697.0
60°	2450.4	2373.3	2718.9	3167.0	3958.3	4776.4	5686.7	7474.9	10195.4	10495.4
62.5°	1426.8	1381.9	1607.9	2026.0	2983.5	4280.4	5826.8	8042.6	11012.7	11327.7
65°	1107.9	1095.3	1115.0	1147.3	1660.6	3204.8	5394.5	8596.2	12052.1	12272.6
67.5°	1013.4	1003.9	1012.6	952.0	842.5	1785.1	4267.8	8736.3	13165.5	13299.4
70°	900.8	889.8	918.1	866.2	663.0	811.8	2757.5	8227.7	14051.3	14302.5
72.5°	733.9	721.3	787.4	763.8	558.3	521.3	1385.1	7019.0	13958.4	14479.7
75°	563.8	556.7	635.4	655.1	455.1	410.2	664.6	5217.4	12283.6	12808.8
77.5°	437.8	432.3	472.4	544.1	366.9	318.1	408.7	3309.5	9256.8	9348.9
80°	328.4	312.6	349.6	421.3	285.8	232.3	277.2	1929.9	5851.2	5304.0
82.5°	205.5	197.6	228.3	281.1	201.6	159.8	180.3	1066.2	2344.9	1381.1
85°	117.3	114.2	124.4	160.6	109.5	92.1	103.2	470.9	428.4	294.5
87.5°	47.2	45.7	56.7	71.7	40.2	33.9	36.2	113.4	94.5	87.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947041
 CATALOG NUMBER: GALN-SB2C-735-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2988.2	0°	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2	2988.2
3000.0	2.5°	2996.9	2996.9	2985.9	2968.5	2948.9	2936.3	2915.8	2910.3	2889.0	2882.7
3026.8	5°	3033.1	3026.8	2992.9	2944.1	2877.2	2815.8	2748.1	2705.5	2645.7	2624.4
3079.6	7.5°	3078.8	3061.5	3003.2	2896.1	2755.9	2618.1	2474.8	2366.2	2262.2	2225.2
3122.9	10°	3120.5	3096.1	2996.9	2809.5	2567.0	2328.4	2100.0	1940.2	1818.9	1769.3
3170.9	12.5°	3162.2	3117.4	2955.2	2665.4	2298.5	1974.8	1731.5	1607.1	1532.3	1472.5
3210.3	15°	3201.6	3138.6	2890.6	2472.5	2004.0	1675.6	1496.1	1396.9	1337.0	1297.7
3267.8	17.5°	3247.3	3156.7	2793.7	2227.6	1723.6	1468.5	1322.1	1262.2	1250.4	1245.7
3346.5	20°	3311.1	3173.3	2666.2	1953.6	1517.3	1303.2	1227.6	1222.1	1221.3	1218.9
3441.0	22.5°	3379.6	3192.9	2497.7	1704.7	1341.7	1200.0	1186.6	1175.6	1168.5	1167.7
3555.2	25°	3460.7	3199.2	2286.6	1500.8	1192.1	1151.2	1135.4	1118.9	1114.2	1114.2
3685.1	27.5°	3539.4	3178.0	2041.0	1323.6	1107.9	1106.3	1085.8	1080.3	1079.5	1081.9
3833.1	30°	3618.2	3137.8	1796.9	1159.9	1059.1	1059.1	1052.0	1055.9	1059.1	1066.9
4036.3	32.5°	3724.5	3095.3	1592.9	1038.6	1016.5	1008.7	1015.8	1023.6	1026.8	1037.0
4303.2	35°	3880.4	3065.4	1430.7	972.5	972.5	962.2	966.2	964.6	957.5	952.8
4626.0	37.5°	4086.7	3063.8	1296.9	941.7	935.4	933.9	934.7	924.4	896.9	863.8
5016.6	40°	4334.7	3106.3	1193.7	920.5	915.8	925.2	920.5	892.9	817.3	759.9
5496.9	42.5°	4667.8	3227.6	1127.6	894.5	908.7	920.5	901.6	806.3	755.1	716.5
6044.2	45°	5059.9	3424.4	1093.7	866.9	895.3	909.5	818.1	776.4	735.4	689.0
6641.0	47.5°	5504.0	3672.5	1085.8	841.0	865.4	874.0	782.7	763.8	717.3	666.9
7241.0	50°	5987.5	3966.2	1107.1	810.2	822.1	792.1	770.9	753.6	705.5	655.9
7856.0	52.5°	6487.5	4289.8	1149.6	768.5	778.7	745.7	766.2	751.2	698.4	631.5
8491.4	55°	6978.8	4615.8	1190.6	719.7	734.7	703.9	752.8	741.7	666.1	590.6
9169.4	57.5°	7478.0	4940.2	1230.7	676.4	692.1	663.8	731.5	716.5	629.9	552.8
9909.6	60°	7996.9	5255.2	1249.6	634.7	645.7	626.8	699.2	673.2	589.0	514.2
10637.1	62.5°	8482.8	5517.4	1218.9	592.9	600.0	592.1	656.7	622.1	548.0	470.9
11395.4	65°	8970.2	5673.3	1124.4	552.0	553.5	549.6	596.9	566.9	500.0	433.1
12059.2	67.5°	9411.9	5760.7	974.0	507.9	503.9	502.4	541.0	507.1	453.5	395.3
12563.9	70°	9505.6	5538.6	744.1	455.9	455.9	452.0	479.5	444.9	402.4	355.1
12202.5	72.5°	8682.0	4659.1	528.4	396.9	403.2	395.3	418.1	389.0	350.4	318.9
10516.7	75°	7000.9	3416.6	384.3	336.2	347.2	333.9	355.1	334.6	301.6	300.8
7247.3	77.5°	4810.3	2112.6	278.7	277.2	285.0	267.7	292.1	281.1	251.2	237.8
3154.4	80°	2052.8	842.5	203.2	214.2	214.2	198.4	226.8	229.9	203.9	197.6
608.7	82.5°	408.7	239.4	142.5	147.2	138.6	133.9	160.6	178.0	245.7	273.2
183.5	85°	122.8	88.2	85.8	80.3	70.9	71.7	94.5	178.7	220.5	126.0
60.6	87.5°	33.9	22.0	22.8	18.1	15.0	19.7	32.3	135.4	74.0	31.5
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°
2988.2
2892.9
2640.2
2229.9
1780.3
1492.1
1304.7
1248.8
1226.8
1176.4
1118.9
1088.2
1072.5
1045.7
963.8
864.6
758.3
715.0
685.8
663.0
650.4
626.8
586.6
551.2
511.8
470.1
428.4
390.6
353.5
309.5
270.9
222.8
197.6
274.0
108.7
26.8
0.0

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