

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: P942359

Luminaire Tested: **GALN-SB6B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29348 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

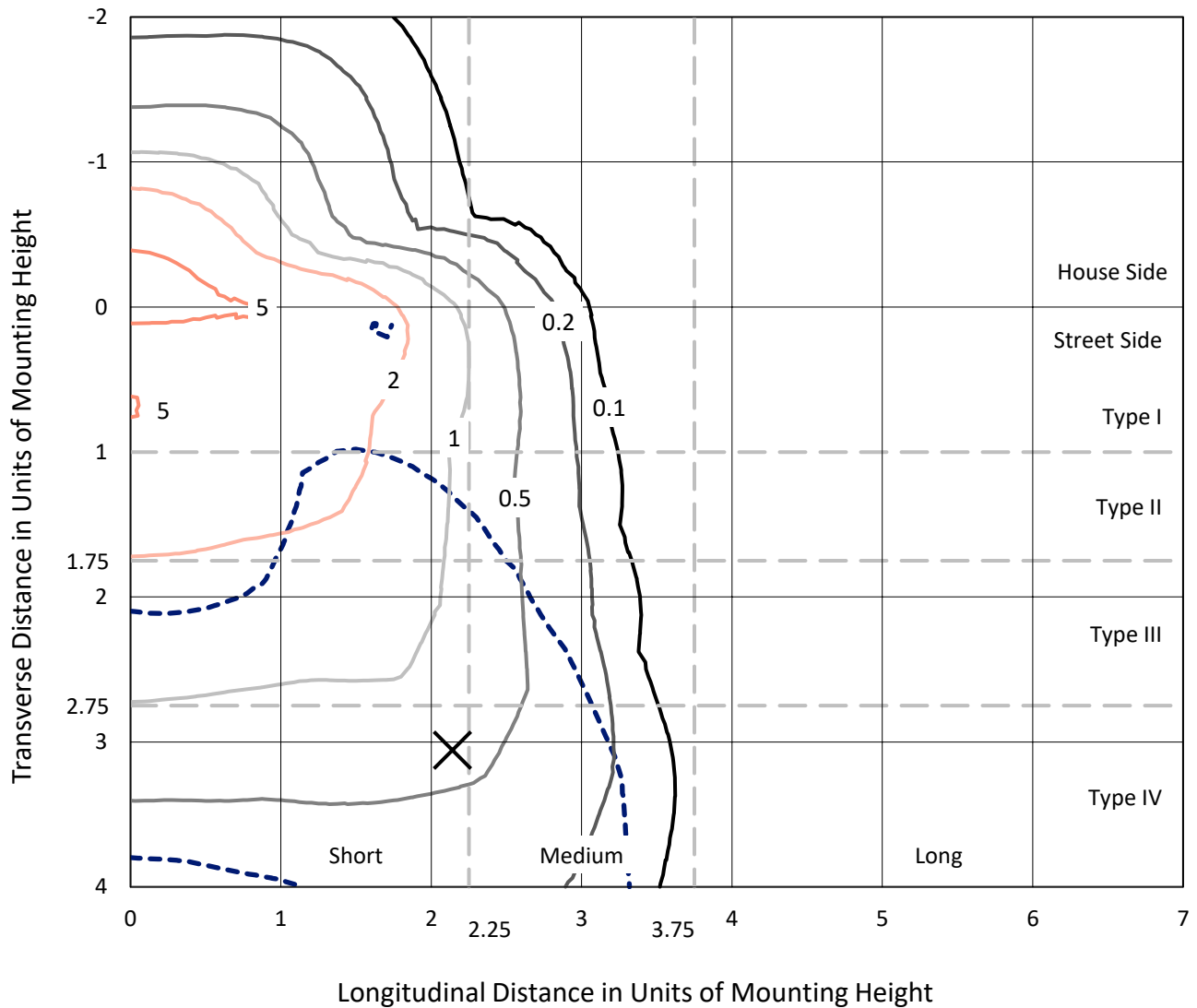
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

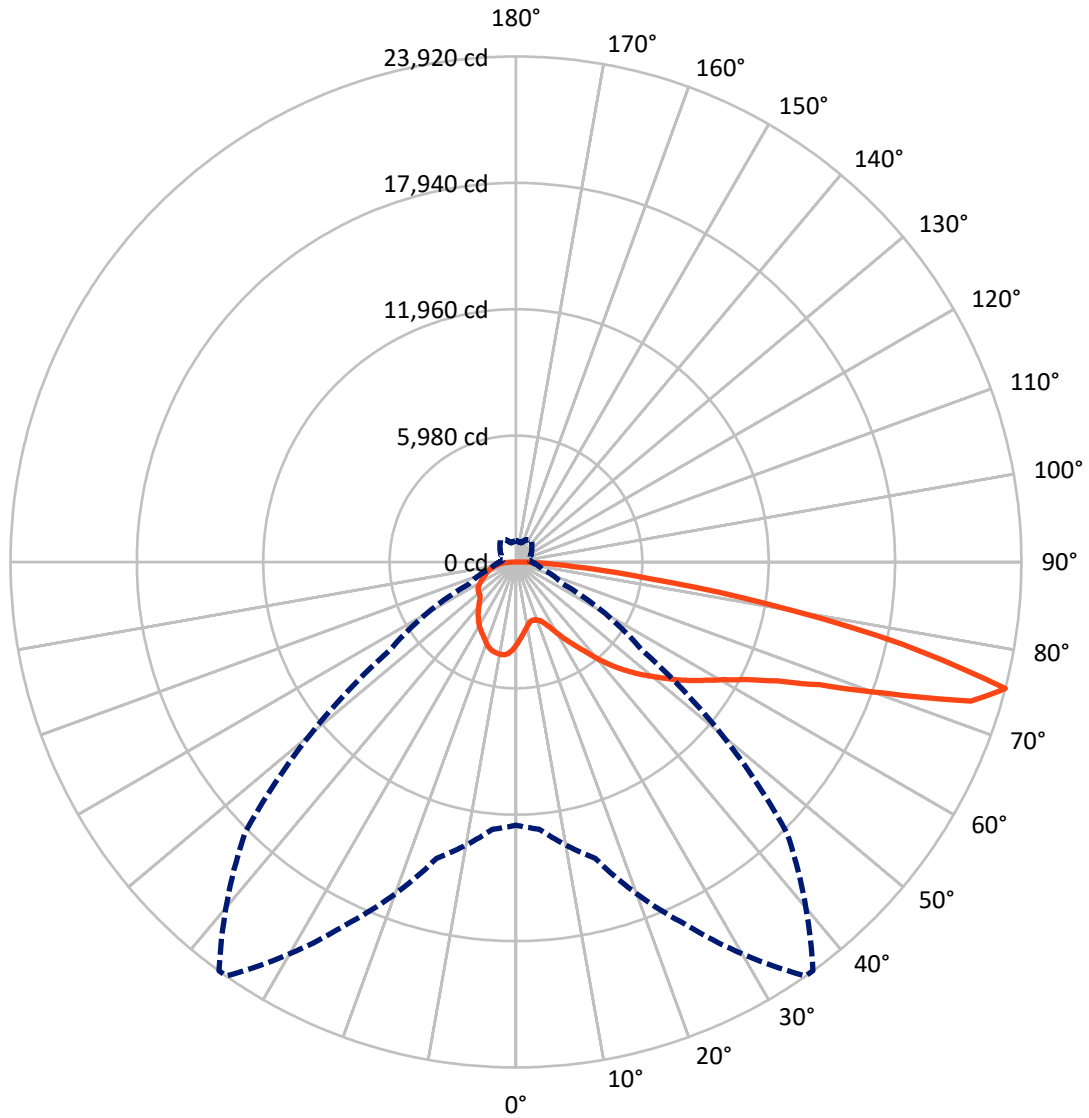
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6984.1	0.0	6984.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22363.9	0.0	22363.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	29348.0	0.0	29348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.3	1.3
10°-20°	1068.0	3.6
20°-30°	1793.5	6.1
30°-40°	2787.4	9.5
40°-50°	4137.2	14.1
50°-60°	5711.7	19.5
60°-70°	6929.5	23.6
70°-80°	5726.7	19.5
80°-90°	823.7	2.8
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°	29348.0	100.0
0°-180°	29348.0	100.0

Coefficient of Utilization



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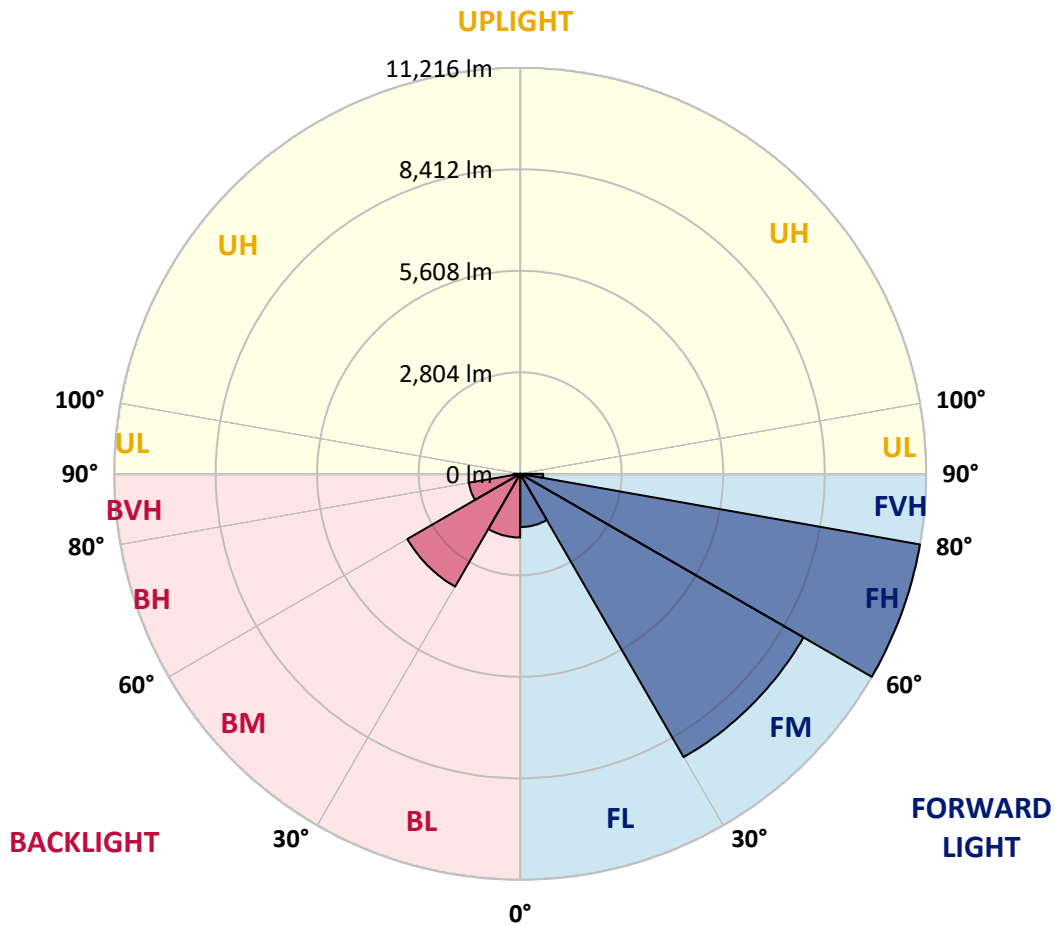
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.7	5.0			
FM (30°-60°)	9037.6	30.8			
FH (60°-80°)	11216.4	38.2			G4/12000
FVH (80°-90°)	638.2	2.2			G4/750
BL (0°-30°)	1760.1	6.0	B3/2500		
BM (30°-60°)	3598.6	12.3	B3/5000		
BH (60°-80°)	1439.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	185.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8
2.5°	3606.2	3628.4	3637.9	3633.2	3657.0	3653.8	3687.1	3728.4	3785.5	3841.0
5°	3328.6	3352.4	3373.0	3392.0	3438.0	3452.3	3504.7	3584.0	3688.7	3795.0
7.5°	3070.0	3090.6	3122.3	3157.2	3235.0	3249.2	3336.5	3460.2	3606.2	3761.7
10°	2858.9	2879.6	2912.9	2952.5	3049.3	3066.8	3177.8	3342.8	3533.2	3730.0
12.5°	2768.5	2774.9	2793.9	2833.6	2917.6	2928.8	3050.9	3239.7	3461.8	3706.2
15°	2763.8	2776.4	2778.0	2798.7	2868.5	2873.2	2985.9	3173.1	3417.4	3701.4
17.5°	2811.3	2820.9	2806.6	2819.3	2878.0	2885.9	2974.8	3141.3	3403.1	3722.0
20°	2938.3	2946.2	2903.4	2885.9	2928.8	2935.1	3022.4	3162.0	3417.4	3764.9
22.5°	3208.0	3212.7	3108.0	3036.6	3039.8	3043.0	3119.1	3246.1	3472.9	3842.6
25°	3628.4	3625.2	3458.7	3320.6	3241.3	3223.8	3274.6	3382.5	3566.5	3945.7
27.5°	4120.2	4096.4	3929.9	3723.6	3550.7	3525.3	3514.2	3560.2	3699.8	4082.2
30°	4675.5	4653.3	4474.0	4204.3	3964.8	3923.5	3818.8	3795.0	3898.1	4267.8
32.5°	5284.8	5270.5	5056.3	4729.5	4409.0	4361.4	4185.3	4121.8	4202.7	4548.6
35°	5795.6	5782.9	5605.2	5268.9	4877.0	4818.3	4639.0	4567.6	4608.9	4908.8
37.5°	6257.3	6251.0	6098.7	5833.7	5429.1	5357.7	5156.3	5132.5	5124.5	5383.1
40°	6685.7	6669.8	6511.2	6371.5	6071.7	6006.6	5828.9	5808.3	5748.0	5967.0
42.5°	7160.1	7118.8	6888.8	6823.7	6742.8	6688.8	6582.6	6585.7	6452.5	6625.4
45°	7547.2	7523.4	7287.0	7248.9	7336.2	7313.9	7406.0	7429.8	7171.2	7315.5
47.5°	7962.8	7940.6	7740.7	7713.8	7950.1	7956.5	8281.7	8289.7	7872.4	8032.6
50°	8475.3	8443.6	8245.2	8278.6	8543.5	8567.3	9162.3	9108.3	8518.1	8760.9
52.5°	8813.2	8832.3	8789.4	8843.4	9205.1	9227.3	10028.5	9890.5	9157.5	9479.6
55°	9062.3	9100.4	9233.7	9357.4	9903.2	9925.4	10845.6	10634.6	9687.4	10145.9
57.5°	9382.8	9328.9	9577.9	9819.1	10566.4	10625.1	11640.4	11351.7	10157.0	10720.2
60°	9842.9	9804.8	9998.4	10355.3	11308.9	11402.5	12481.3	11997.4	10501.3	11175.6
62.5°	10775.8	10680.6	10710.7	11026.4	12244.9	12368.7	13430.1	12560.6	10672.7	11353.3
65°	12170.3	12006.9	11854.6	12073.6	13563.3	13685.5	14501.0	13003.3	10609.2	11009.0
67.5°	13926.6	13764.8	13577.6	13783.9	15505.2	15602.0	15822.6	13252.4	10109.4	9682.6
70°	15375.2	15314.9	15538.6	16387.4	18606.9	18610.1	17517.0	13046.1	8740.2	6865.0
72.5°	15183.2	15146.7	16325.5	18949.6	22516.2	22432.1	19121.0	11485.0	5887.6	3096.9
75°	12455.9	12692.3	14518.4	18903.6	23920.3	23909.1	18138.9	7301.3	2435.3	1283.5
77.5°	6679.3	7053.8	9425.6	13956.8	18673.6	18954.4	12752.6	2554.3	1045.5	821.8
80°	2178.3	2505.1	3756.9	7106.1	12133.9	12081.5	5465.6	1002.7	715.5	582.3
82.5°	925.0	963.0	1678.6	3355.5	6227.2	6130.4	1740.4	575.9	502.9	398.2
85°	361.7	404.6	740.9	1551.6	2697.1	2638.4	628.3	285.6	322.1	260.2
87.5°	119.0	144.4	265.0	531.5	839.3	809.1	153.9	98.4	139.6	119.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3910.8	0°	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8
3921.9	2.5°	3944.1	3969.5	3999.7	4044.1	4082.2	4113.9	4147.2	4167.8	4175.8	4199.6
3928.3	5°	3972.7	4028.2	4102.8	4175.8	4247.2	4290.0	4328.1	4347.1	4364.6	4377.3
3945.7	7.5°	4020.3	4091.7	4209.1	4304.3	4364.6	4399.5	4424.9	4418.5	4424.9	4428.0
3964.8	10°	4061.5	4161.5	4301.1	4391.5	4437.6	4439.1	4432.8	4410.6	4399.5	4401.1
3993.3	12.5°	4110.7	4221.8	4372.5	4448.7	4461.3	4426.4	4399.5	4361.4	4347.1	4340.8
4036.2	15°	4177.4	4304.3	4450.2	4478.8	4447.1	4402.6	4356.6	4294.8	4263.0	4237.6
4109.1	17.5°	4258.3	4397.9	4510.5	4489.9	4421.7	4348.7	4274.1	4180.5	4115.5	4088.5
4209.1	20°	4370.9	4496.3	4556.5	4466.1	4363.0	4251.9	4125.0	4010.8	3950.5	3923.5
4336.0	22.5°	4507.4	4627.9	4601.0	4424.9	4278.9	4101.2	3942.6	3858.5	3828.3	3809.3
4499.4	25°	4670.8	4773.9	4632.7	4364.6	4140.9	3901.3	3779.1	3752.2	3737.9	3723.6
4699.3	27.5°	4883.4	4938.9	4656.5	4275.7	3925.1	3688.7	3644.3	3649.0	3644.3	3620.5
4977.0	30°	5164.2	5153.1	4678.7	4131.3	3677.6	3496.7	3499.9	3520.5	3523.7	3507.8
5364.1	32.5°	5533.8	5421.2	4689.8	3944.1	3441.2	3328.6	3331.7	3353.9	3369.8	3342.8
5870.2	35°	5981.3	5733.8	4672.4	3709.3	3258.8	3168.3	3144.5	3150.9	3155.6	3130.2
6484.2	37.5°	6503.2	6084.4	4594.6	3449.1	3108.0	3011.3	2960.5	2917.6	2892.3	2868.5
7179.1	40°	7076.0	6466.7	4451.8	3195.3	2939.9	2844.7	2768.5	2687.6	2601.9	2570.2
7915.2	42.5°	7675.7	6860.2	4278.9	2952.5	2746.3	2668.6	2587.6	2470.2	2341.7	2276.7
8680.0	45°	8297.6	7263.2	4109.1	2713.0	2548.0	2514.7	2421.1	2279.9	2140.2	2057.7
9446.3	47.5°	8906.8	7643.9	3860.1	2471.8	2362.4	2398.8	2325.9	2195.8	2040.3	1910.2
10206.2	50°	9489.1	8000.9	3452.3	2227.5	2211.6	2363.9	2294.1	2106.9	1929.2	1762.6
10951.9	52.5°	10066.6	8289.7	2930.3	2005.4	2130.7	2354.4	2252.9	2046.6	1829.3	1654.8
11653.1	55°	10556.8	8438.8	2427.4	1815.0	2013.3	2273.5	2203.7	1975.2	1688.1	1502.5
12133.9	57.5°	10836.1	8318.2	2008.6	1627.8	1851.5	2140.2	2119.6	1822.9	1519.9	1377.1
12227.5	60°	10715.5	7829.6	1665.9	1464.4	1697.6	1995.9	1973.7	1672.2	1391.4	1256.5
11726.1	62.5°	10050.7	6898.3	1394.6	1321.6	1558.0	1848.3	1827.7	1556.4	1293.0	1162.9
10395.0	65°	8711.7	5611.6	1183.6	1202.6	1416.8	1670.6	1700.8	1459.6	1215.3	1088.4
8042.2	67.5°	6644.4	4064.7	1018.6	1099.5	1278.8	1496.1	1583.4	1389.8	1150.2	1029.7
4653.3	70°	3787.1	2308.4	878.9	999.5	1156.6	1334.3	1492.9	1334.3	1080.4	980.5
1743.6	72.5°	1435.8	1059.8	760.0	899.6	1039.2	1197.8	1393.0	1247.0	999.5	925.0
901.2	75°	766.3	645.7	639.4	782.2	904.3	1064.6	1267.6	1161.3	939.2	977.3
623.5	77.5°	522.0	456.9	534.7	669.5	756.8	917.0	1134.4	1031.3	813.9	810.7
431.5	80°	361.7	323.7	434.7	539.4	585.4	771.1	990.0	885.3	663.2	618.8
266.5	82.5°	217.4	211.0	325.2	403.0	414.1	595.0	820.2	742.5	542.6	472.8
158.7	85°	119.0	125.3	207.8	236.4	241.2	415.7	642.5	574.3	417.3	350.6
57.1	87.5°	33.3	42.8	76.2	93.6	115.8	215.8	382.4	341.1	209.4	146.0
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°
3910.8
4198.0
4380.4
4432.8
4404.2
4337.6
4245.6
4090.1
3920.3
3812.5
3723.6
3625.2
3515.8
3355.5
3147.7
2884.3
2584.5
2284.6
2051.4
1895.9
1748.4
1635.7
1486.6
1358.1
1237.5
1142.3
1067.7
1010.6
967.8
912.3
1009.0
747.3
591.8
476.0
353.8
146.0
0.0

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