

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: P943792

Luminaire Tested: **GALN-SB8B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32707 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

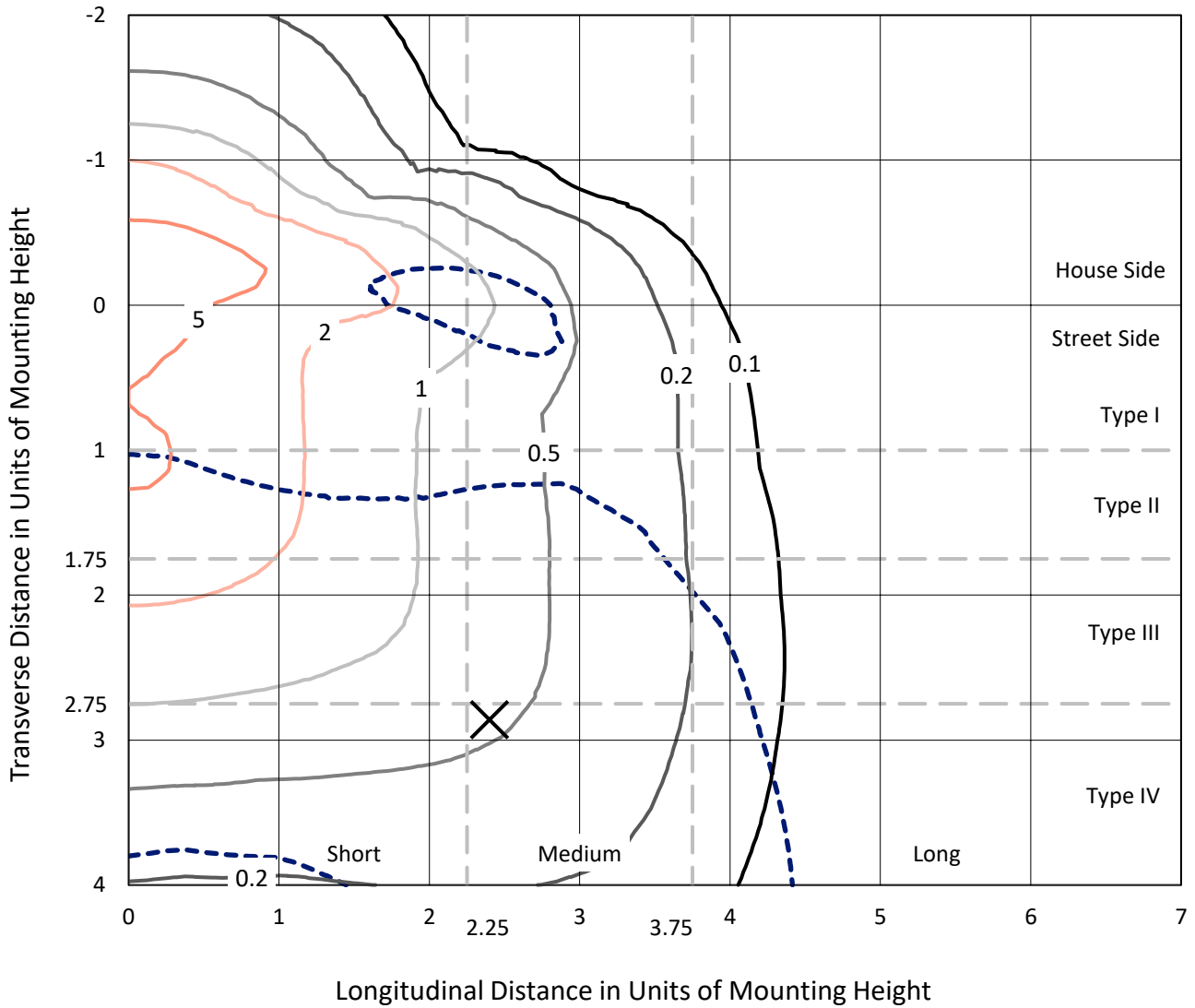
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

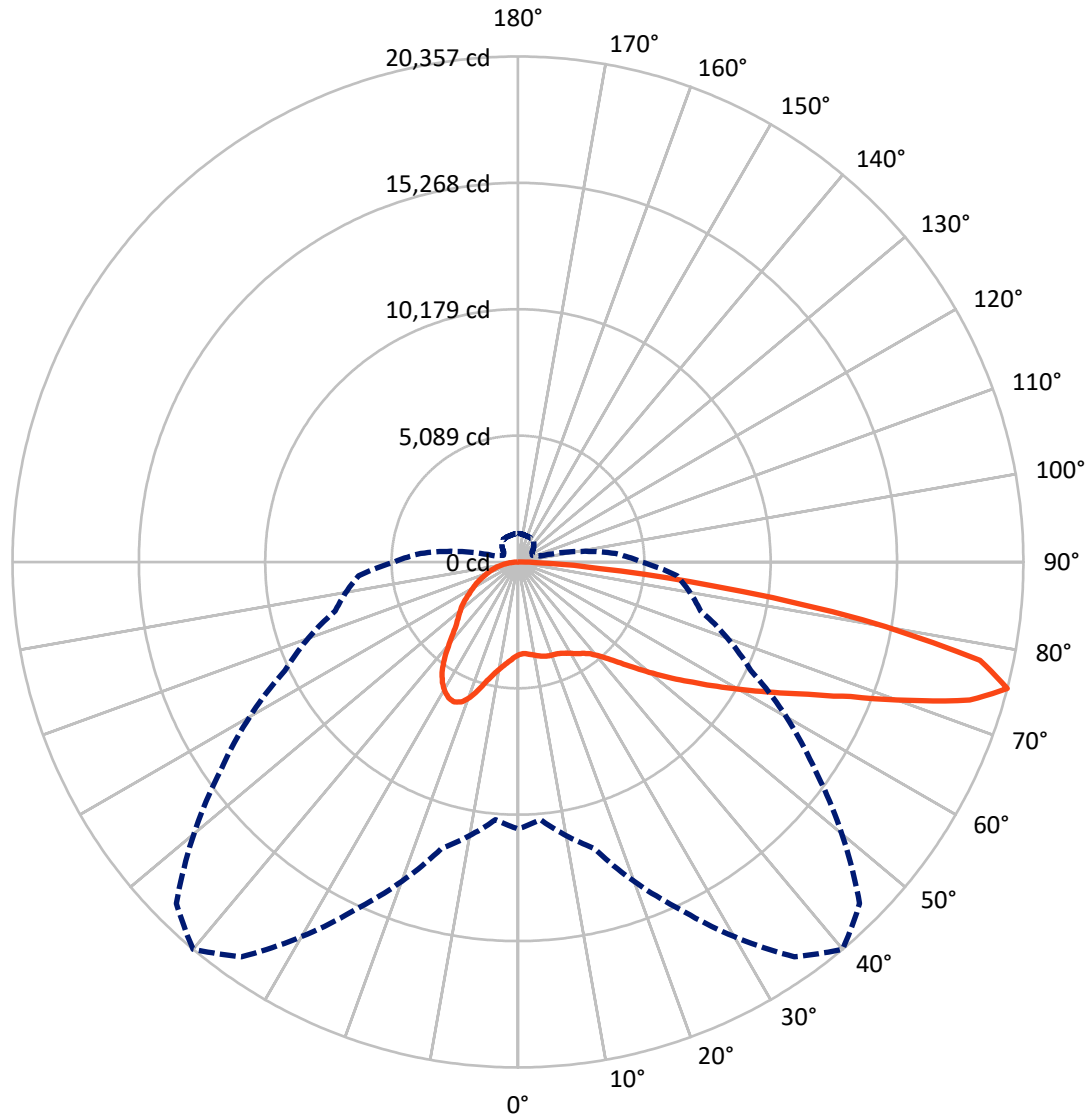
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10133.7	0.0	10133.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22573.3	0.0	22573.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	32707.0	0.0	32707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	1.1
10°-20°	1253.4	3.8
20°-30°	2288.7	7.0
30°-40°	3246.0	9.9
40°-50°	4383.1	13.4
50°-60°	5896.4	18.0
60°-70°	7483.9	22.9
70°-80°	6792.1	20.8
80°-90°	990.1	3.0
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°	32707.0	100.0
0°-180°	32707.0	100.0

Coefficient of Utilization



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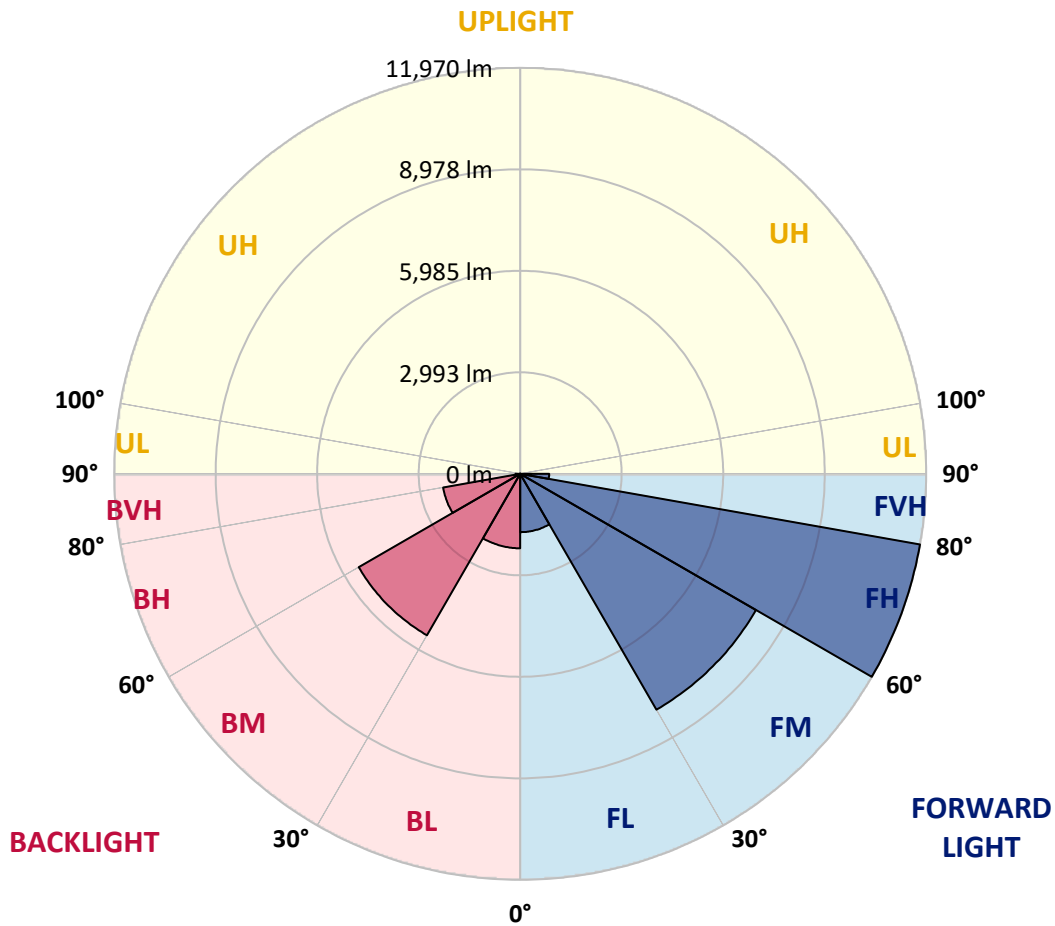
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.4	5.3			
FM (30°-60°)	8028.8	24.5			
FH (60°-80°)	11970.3	36.6			G4/12000
FVH (80°-90°)	853.8	2.6			G5
BL (0°-30°)	2195.1	6.7	B3/2500		
BM (30°-60°)	5496.6	16.8	B4/8500		
BH (60°-80°)	2305.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	136.3	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1
2.5°	3682.8	3703.7	3698.5	3691.5	3691.5	3693.3	3691.5	3703.7	3715.8	3727.9
5°	3721.0	3741.8	3731.4	3722.7	3715.8	3714.1	3708.9	3707.1	3714.1	3729.7
7.5°	3795.6	3816.4	3800.8	3785.2	3771.3	3764.4	3757.4	3747.0	3741.8	3750.5
10°	3878.9	3899.7	3880.6	3852.8	3830.3	3821.6	3814.7	3804.3	3797.3	3802.5
12.5°	3962.1	3983.0	3956.9	3918.8	3889.3	3884.1	3875.4	3871.9	3870.2	3868.5
15°	4040.2	4057.5	4024.6	3979.5	3948.3	3939.6	3930.9	3936.1	3944.8	3955.2
17.5°	4100.9	4118.3	4069.7	4010.7	3981.2	3977.7	3972.5	3989.9	4014.2	4040.2
20°	4156.4	4173.8	4111.3	4031.5	3996.8	3996.8	3998.6	4035.0	4069.7	4107.9
22.5°	4234.5	4248.4	4172.0	4062.7	4012.4	4015.9	4029.8	4066.2	4109.6	4161.6
25°	4350.7	4361.1	4267.4	4121.7	4064.5	4074.9	4087.0	4104.4	4146.0	4206.7
27.5°	4538.1	4546.7	4423.6	4225.8	4139.1	4156.4	4173.8	4161.6	4180.7	4232.8
30°	4801.7	4807.0	4650.8	4388.9	4265.7	4274.4	4277.9	4227.5	4191.1	4232.8
32.5°	5114.0	5112.3	4926.6	4586.6	4409.7	4401.0	4371.5	4272.7	4187.7	4224.1
35°	5598.0	5578.9	5339.5	4864.2	4572.8	4519.0	4449.6	4323.0	4205.0	4215.4
37.5°	6399.4	6340.5	6009.1	5318.7	4815.6	4678.6	4576.2	4404.5	4243.2	4211.9
40°	7303.2	7228.6	6864.3	5941.5	5179.9	4959.6	4794.8	4520.7	4305.6	4227.5
42.5°	8375.3	8269.5	7877.4	6675.3	5641.4	5322.2	5074.1	4668.2	4397.6	4277.9
45°	9692.0	9551.5	8996.3	7502.7	6222.5	5797.5	5466.2	4892.0	4538.1	4375.0
47.5°	11022.5	11057.2	10267.9	8449.9	6919.9	6383.8	5957.1	5228.5	4742.8	4531.1
50°	12436.3	12460.6	11532.5	9499.4	7710.9	7046.5	6508.7	5604.9	5027.3	4753.2
52.5°	13539.6	13543.1	12680.9	10597.5	8534.9	7775.1	7103.7	6035.1	5356.9	5048.1
55°	14230.0	14221.4	13485.8	11636.6	9482.1	8540.1	7762.9	6524.3	5759.3	5395.0
57.5°	14731.4	14705.4	14040.9	12530.0	10491.7	9443.9	8508.9	7079.5	6234.6	5807.9
60°	14922.2	14906.6	14417.4	13301.9	11553.3	10443.1	9369.3	7700.5	6774.1	6295.4
62.5°	14995.1	15024.5	14786.9	14049.6	12689.6	11549.9	10314.7	8443.0	7381.3	6847.0
65°	15251.8	15305.6	15257.0	15028.0	13973.3	12845.7	11568.9	9325.9	8044.0	7438.5
67.5°	15760.1	15813.8	15834.7	16199.0	15541.5	14460.8	13133.7	10425.8	8819.4	8052.6
70°	15747.9	15732.3	16100.1	17130.5	17505.2	16696.8	15243.1	11778.9	9744.0	8562.7
72.5°	14334.1	14209.2	15078.3	17120.1	19139.3	19031.8	17819.2	13524.0	10542.0	8625.1
75°	10753.6	10420.6	11955.8	15428.7	19411.7	20357.1	19456.8	14606.5	10352.9	7620.7
77.5°	4598.8	4264.0	6073.3	11421.5	17373.4	19030.0	17954.5	12743.4	8264.3	5039.4
80°	1203.9	1202.2	1835.3	5178.2	11815.3	14053.1	12328.8	8229.6	4721.9	1800.7
82.5°	497.9	485.7	674.8	2014.0	5773.2	7886.1	6435.9	3670.7	1705.2	487.5
85°	185.6	183.9	327.9	695.6	2036.6	3252.6	2354.0	938.5	425.0	237.7
87.5°	52.0	50.3	71.1	241.1	496.1	752.9	402.5	154.4	119.7	93.7
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°
3740.1	0°	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1
3747.0	2.5°	3752.2	3760.9	3776.5	3788.7	3804.3	3821.6	3845.9	3861.5	3877.1	3887.5
3755.7	5°	3767.8	3786.9	3826.8	3866.7	3913.6	3956.9	4007.2	4043.7	4073.2	4081.8
3786.9	7.5°	3802.5	3833.8	3901.4	3969.1	4043.7	4114.8	4187.7	4250.1	4300.4	4319.5
3842.4	10°	3863.3	3904.9	4000.3	4095.7	4194.6	4303.9	4397.6	4487.8	4558.9	4588.4
3908.4	12.5°	3939.6	3991.6	4116.5	4248.4	4385.4	4536.3	4657.8	4768.8	4857.3	4897.2
4000.3	15°	4038.5	4106.1	4265.7	4442.7	4643.9	4853.8	5008.2	5131.3	5230.2	5278.8
4095.7	17.5°	4146.0	4236.2	4437.5	4704.6	4992.6	5268.4	5448.8	5539.0	5641.4	5688.2
4184.2	20°	4250.1	4361.1	4649.1	5037.7	5421.0	5714.2	5859.9	5884.2	5891.2	5896.4
4267.4	22.5°	4357.7	4506.8	4914.5	5457.5	5868.6	6071.6	6092.4	5988.3	5842.6	5774.9
4349.0	25°	4475.6	4673.4	5261.5	5920.7	6253.7	6278.0	6118.4	5865.1	5589.3	5462.7
4414.9	27.5°	4590.1	4865.9	5677.8	6363.0	6531.3	6317.9	5974.4	5615.3	5282.3	5148.7
4461.7	30°	4704.6	5086.2	6137.5	6749.9	6657.9	6219.0	5747.2	5346.5	5011.6	4871.1
4503.4	32.5°	4820.8	5343.0	6666.6	7029.1	6635.4	6009.1	5464.4	5044.6	4749.7	4602.3
4539.8	35°	4952.7	5658.7	7167.9	7181.8	6484.4	5700.3	5091.4	4683.8	4427.0	4309.1
4583.2	37.5°	5124.4	6059.4	7610.3	7220.0	6220.8	5247.6	4628.3	4257.0	4045.4	3991.6
4647.4	40°	5337.8	6541.7	7948.6	7159.3	5830.4	4697.7	4121.7	3825.1	3705.4	3717.5
4734.1	42.5°	5615.3	7081.2	8186.2	7003.1	5287.5	4130.4	3677.6	3545.8	3603.0	3651.6
4864.2	45°	5976.2	7641.5	8333.7	6737.7	4673.4	3649.9	3415.7	3446.9	3490.3	3495.5
5074.1	47.5°	6437.6	8208.8	8430.8	6337.0	4047.1	3311.6	3249.2	3256.1	3247.4	3211.0
5388.1	50°	7013.5	8760.4	8517.5	5806.2	3514.6	3100.0	3016.7	2992.4	2872.7	2754.8
5806.2	52.5°	7669.3	9267.0	8554.0	5147.0	3100.0	2923.0	2787.7	2635.1	2411.3	2374.9
6331.8	55°	8397.9	9735.3	8460.3	4336.8	2751.3	2695.8	2491.1	2307.2	2282.9	2251.7
7023.9	57.5°	9268.7	10240.1	8269.5	3433.0	2393.9	2430.4	2230.9	2251.7	2208.3	2159.7
7913.9	60°	10221.1	10762.3	7934.7	2609.0	2024.4	2099.0	2163.2	2161.5	2149.3	2109.4
8852.4	62.5°	11078.0	11105.8	7275.5	1998.4	1700.0	1842.3	2017.5	2015.8	2005.4	1982.8
9832.5	65°	11588.0	11053.7	6175.7	1573.4	1432.9	1630.7	1819.7	1833.6	1835.3	1833.6
10569.7	67.5°	11497.8	10444.8	4666.4	1252.5	1212.6	1415.5	1623.7	1642.8	1656.7	1660.1
10663.4	70°	10477.8	9107.4	3042.7	999.2	1016.6	1226.5	1438.1	1457.2	1469.3	1483.2
9253.1	72.5°	8167.1	6696.1	1741.7	808.4	844.8	1063.4	1254.2	1276.8	1283.7	1309.7
6439.3	75°	4977.0	3937.8	940.2	636.6	693.9	909.0	1072.1	1098.1	1110.2	1141.5
3162.4	77.5°	2366.2	1705.2	536.0	496.1	558.6	742.5	905.5	935.0	902.1	919.4
872.6	80°	799.7	633.2	338.3	378.2	426.7	579.4	725.1	754.6	685.2	681.8
289.7	82.5°	279.3	256.7	215.1	251.5	275.8	414.6	548.2	586.3	510.0	508.3
130.1	85°	109.3	104.1	119.7	137.0	164.8	255.0	360.8	379.9	314.0	253.3
38.2	87.5°	22.6	24.3	29.5	31.2	50.3	88.5	130.1	159.6	126.6	107.6
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°
3740.1
3880.6
4085.3
4321.2
4590.1
4897.2
5275.3
5686.5
5910.2
5794.0
5481.8
5164.3
4886.7
4621.3
4335.1
4029.8
3759.2
3696.7
3530.2
3238.8
2770.4
2387.0
2256.9
2151.1
2095.6
1974.1
1833.6
1663.6
1490.1
1320.1
1144.9
905.5
674.8
484.0
249.8
98.9
0.0

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