

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: P942102

Luminaire Tested: **GALN-SB5D-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942102
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-SB5D-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35447 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

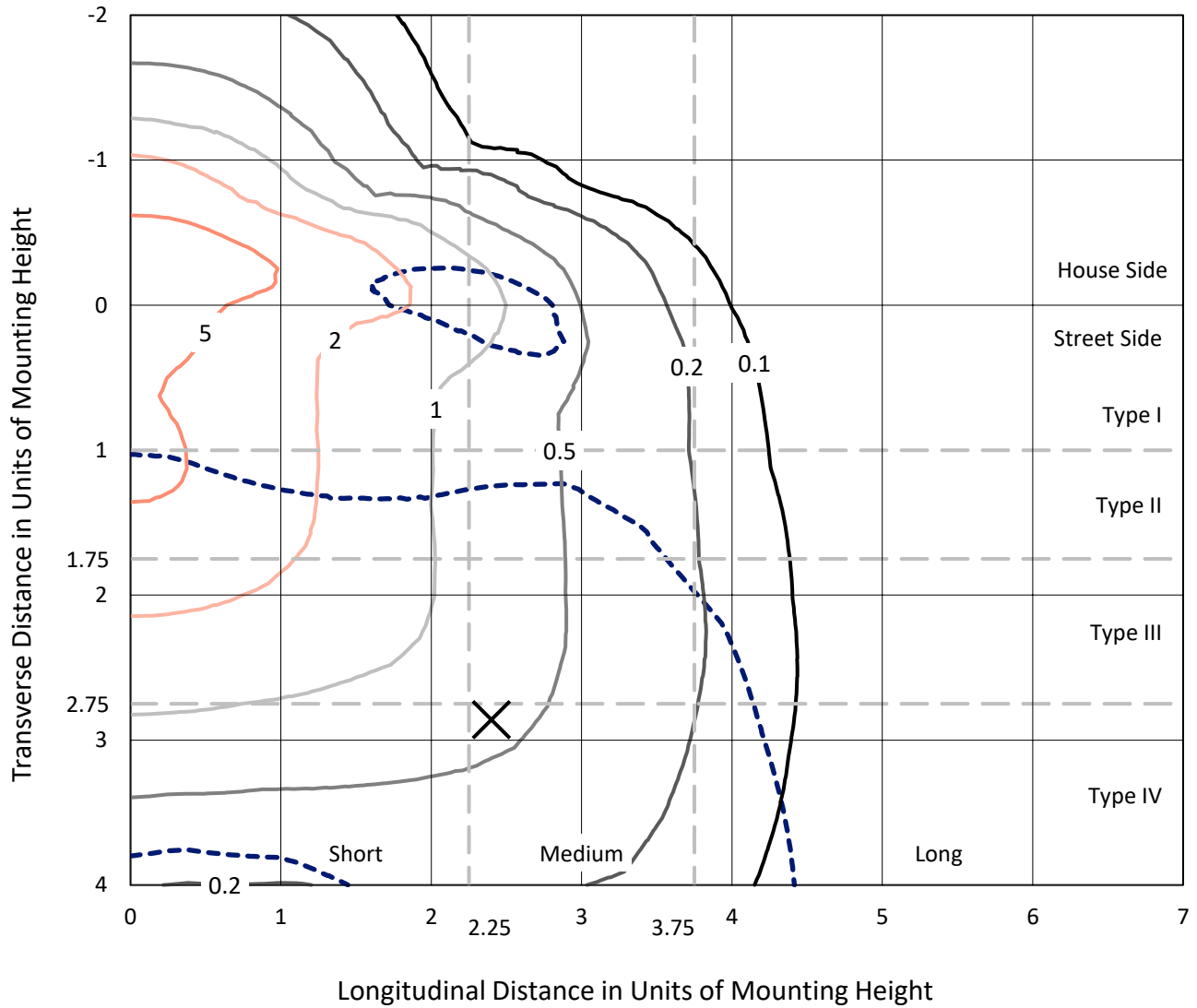
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

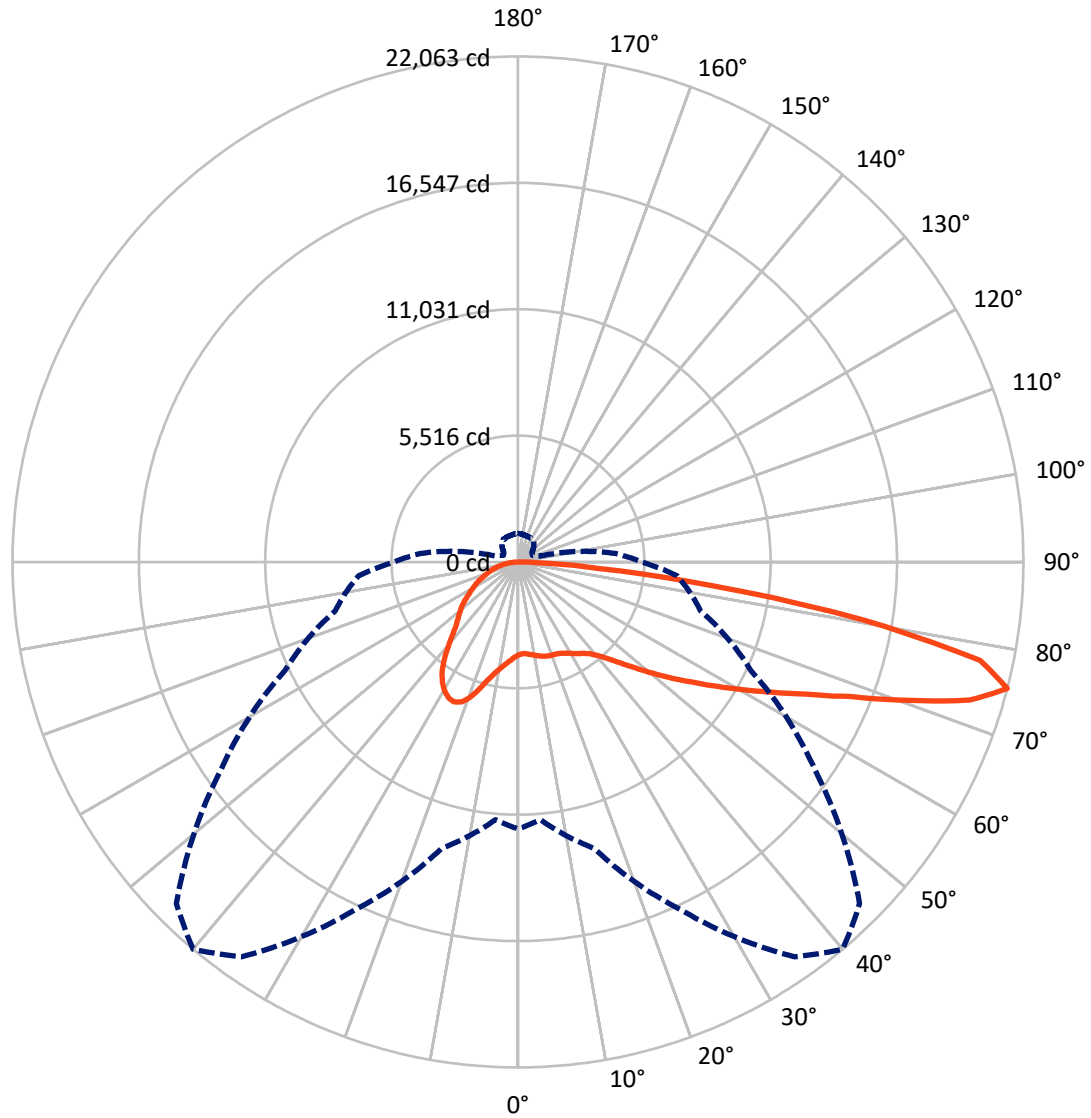
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	10982.7	0.0	10982.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24464.3	0.0	24464.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	35447.0	0.0	35447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.6	1.1
10°-20°	1358.5	3.8
20°-30°	2480.4	7.0
30°-40°	3517.9	9.9
40°-50°	4750.3	13.4
50°-60°	6390.4	18.0
60°-70°	8110.8	22.9
70°-80°	7361.1	20.8
80°-90°	1073.0	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°	35447.0	100.0
0°-180°	35447.0	100.0

Coefficient of Utilization



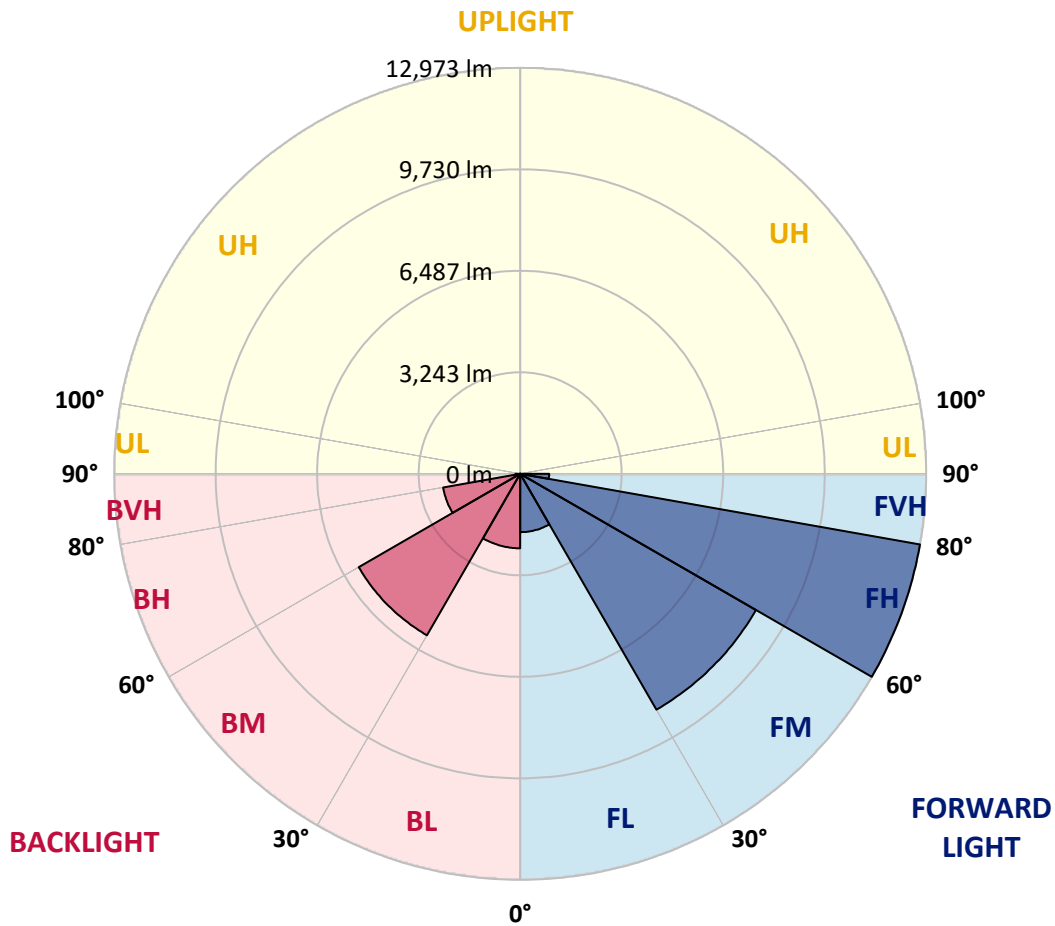
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.5	5.3			
FM (30°-60°)	8701.4	24.5			
FH (60°-80°)	12973.1	36.6			G5
FVH (80°-90°)	925.3	2.6			G5
BL (0°-30°)	2378.9	6.7	B3/2500		
BM (30°-60°)	5957.1	16.8	B4/8500		
BH (60°-80°)	2498.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	147.7	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°	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4
2.5°	3991.4	4013.9	4008.3	4000.8	4000.8	4002.7	4000.8	4013.9	4027.1	4040.3
5°	4032.7	4055.3	4044.0	4034.6	4027.1	4025.2	4019.6	4017.7	4025.2	4042.1
7.5°	4113.6	4136.1	4119.2	4102.3	4087.3	4079.7	4072.2	4060.9	4055.3	4064.7
10°	4203.8	4226.4	4205.7	4175.6	4151.2	4141.8	4134.3	4123.0	4115.5	4121.1
12.5°	4294.1	4316.6	4288.4	4247.1	4215.1	4209.5	4200.1	4196.3	4194.4	4192.5
15°	4378.7	4397.5	4361.7	4312.9	4279.0	4269.6	4260.2	4265.9	4275.3	4286.5
17.5°	4444.5	4463.3	4410.6	4346.7	4314.7	4311.0	4305.3	4324.1	4350.5	4378.7
20°	4504.6	4523.4	4455.7	4369.3	4331.7	4331.7	4333.5	4373.0	4410.6	4452.0
22.5°	4589.2	4604.3	4521.5	4403.1	4348.6	4352.3	4367.4	4406.9	4453.9	4510.3
25°	4715.2	4726.5	4625.0	4467.0	4405.0	4416.3	4429.4	4448.2	4493.3	4559.1
27.5°	4918.2	4927.6	4794.2	4579.8	4485.8	4504.6	4523.4	4510.3	4530.9	4587.3
30°	5204.0	5209.6	5040.4	4756.6	4623.1	4632.5	4636.2	4581.7	4542.2	4587.3
32.5°	5542.4	5540.5	5339.4	4970.9	4779.1	4769.7	4737.8	4630.6	4538.5	4577.9
35°	6067.0	6046.3	5786.8	5271.7	4955.8	4897.6	4822.4	4685.1	4557.3	4568.5
37.5°	6935.5	6871.6	6512.5	5764.3	5219.0	5070.5	4959.6	4773.5	4598.6	4564.8
40°	7915.1	7834.2	7439.4	6439.2	5613.9	5375.1	5196.5	4899.4	4666.3	4581.7
42.5°	9076.9	8962.3	8537.4	7234.5	6114.0	5768.0	5499.2	5059.2	4766.0	4636.2
45°	10503.9	10351.6	9750.0	8131.3	6743.8	6283.2	5924.1	5301.8	4918.2	4741.5
47.5°	11945.9	11983.5	11128.1	9157.8	7499.6	6918.6	6456.1	5666.5	5140.1	4910.7
50°	13478.2	13504.5	12498.6	10295.2	8356.9	7636.8	7054.0	6074.5	5448.4	5151.4
52.5°	14673.9	14677.6	13743.2	11485.3	9249.9	8426.4	7698.9	6540.7	5805.6	5471.0
55°	15422.1	15412.7	14615.6	12611.4	10276.4	9255.5	8413.3	7070.9	6241.8	5847.0
57.5°	15965.5	15937.3	15217.2	13579.7	11370.6	10235.1	9221.7	7672.5	6756.9	6294.4
60°	16172.3	16155.4	15625.2	14416.3	12521.2	11318.0	10154.2	8345.6	7341.6	6822.7
62.5°	16251.2	16283.2	16025.6	15226.6	13752.6	12517.4	11178.8	9150.3	7999.7	7420.6
65°	16529.5	16587.8	16535.1	16287.0	15143.9	13921.9	12538.1	10107.2	8717.8	8061.7
67.5°	17080.4	17138.6	17161.2	17556.0	16843.5	15672.2	14233.9	11299.2	9558.2	8727.2
70°	17067.2	17050.3	17448.8	18565.6	18971.7	18095.6	16520.1	12765.6	10560.3	9280.0
72.5°	15534.9	15399.6	16341.5	18554.3	20742.7	20626.2	19312.0	14657.0	11425.1	9347.7
75°	11654.5	11293.5	12957.4	16721.3	21037.9	22062.5	21086.8	15830.1	11220.2	8259.1
77.5°	4984.0	4621.2	6582.1	12378.3	18828.8	20624.3	19458.6	13810.9	8956.6	5461.6
80°	1304.8	1302.9	1989.1	5612.0	12805.1	15230.4	13361.6	8919.0	5117.5	1951.5
82.5°	539.6	526.4	731.3	2182.8	6256.8	8546.8	6975.0	3978.2	1848.1	528.3
85°	201.2	199.3	355.3	753.9	2207.2	3525.1	2551.2	1017.1	460.6	257.6
87.5°	56.4	54.5	77.1	261.3	537.7	815.9	436.2	167.3	129.7	101.5
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°
4053.4	0°	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4	4053.4
4060.9	2.5°	4066.6	4076.0	4092.9	4106.1	4123.0	4141.8	4168.1	4185.0	4201.9	4213.2
4070.3	5°	4083.5	4104.2	4147.4	4190.7	4241.4	4288.4	4342.9	4382.4	4414.4	4423.8
4104.2	7.5°	4121.1	4154.9	4228.3	4301.6	4382.4	4459.5	4538.5	4606.1	4660.7	4681.4
4164.3	10°	4186.9	4232.0	4335.4	4438.8	4546.0	4664.4	4766.0	4863.7	4940.8	4972.8
4235.8	12.5°	4269.6	4326.0	4461.4	4604.3	4752.8	4916.4	5048.0	5168.3	5264.2	5307.4
4335.4	15°	4376.8	4450.1	4623.1	4814.8	5032.9	5260.4	5427.7	5561.2	5668.4	5721.0
4438.8	17.5°	4493.3	4591.1	4809.2	5098.7	5410.8	5709.7	5905.3	6003.0	6114.0	6164.7
4534.7	20°	4606.1	4726.5	5038.6	5459.7	5875.2	6192.9	6350.8	6377.2	6384.7	6390.3
4625.0	22.5°	4722.7	4884.4	5326.2	5914.7	6360.2	6580.2	6602.8	6490.0	6332.0	6258.7
4713.3	25°	4850.6	5064.9	5702.2	6416.6	6777.6	6803.9	6631.0	6356.5	6057.6	5920.3
4784.8	27.5°	4974.6	5273.6	6153.4	6896.1	7078.4	6847.2	6474.9	6085.8	5724.8	5580.0
4835.5	30°	5098.7	5512.3	6651.7	7315.3	7215.7	6740.0	6228.6	5794.3	5431.5	5279.2
4880.6	32.5°	5224.7	5790.6	7225.1	7618.0	7191.2	6512.5	5922.2	5467.2	5147.6	4987.8
4920.1	35°	5367.6	6132.8	7768.4	7783.5	7027.7	6177.9	5518.0	5076.2	4797.9	4670.1
4967.1	37.5°	5553.7	6567.1	8247.8	7824.8	6741.9	5687.2	5016.0	4613.7	4384.3	4326.0
5036.7	40°	5784.9	7089.7	8614.4	7759.0	6318.9	5091.2	4467.0	4145.5	4015.8	4029.0
5130.7	42.5°	6085.8	7674.4	8872.0	7589.8	5730.4	4476.4	3985.7	3842.8	3904.9	3957.5
5271.7	45°	6476.8	8281.7	9031.8	7302.2	5064.9	3955.6	3701.8	3735.7	3782.7	3788.3
5499.2	47.5°	6976.9	8896.4	9137.1	6867.9	4386.2	3589.0	3521.4	3528.9	3519.5	3480.0
5839.5	50°	7601.1	9494.3	9231.1	6292.6	3809.0	3359.7	3269.4	3243.1	3113.4	2985.5
6292.6	52.5°	8311.8	10043.3	9270.6	5578.1	3359.7	3167.9	3021.3	2855.8	2613.3	2573.8
6862.2	55°	9101.4	10550.9	9169.1	4700.2	2981.8	2921.6	2699.8	2500.5	2474.2	2440.3
7612.4	57.5°	10045.2	11098.0	8962.3	3720.6	2594.5	2634.0	2417.8	2440.3	2393.3	2340.7
8576.8	60°	11077.3	11663.9	8599.4	2827.6	2194.0	2274.9	2344.4	2342.6	2329.4	2286.2
9594.0	62.5°	12006.1	12036.2	7885.0	2165.8	1842.5	1996.6	2186.5	2184.6	2173.4	2148.9
10656.2	65°	12558.8	11979.7	6693.0	1705.2	1552.9	1767.3	1972.2	1987.2	1989.1	1987.2
11455.2	67.5°	12461.0	11319.8	5057.4	1357.4	1314.2	1534.1	1759.7	1780.4	1795.5	1799.2
11556.7	70°	11355.6	9870.3	3297.6	1082.9	1101.7	1329.2	1558.6	1579.3	1592.4	1607.5
10028.2	72.5°	8851.3	7257.0	1887.6	876.1	915.6	1152.5	1359.3	1383.7	1391.2	1419.4
6978.8	75°	5393.9	4267.7	1019.0	690.0	752.0	985.2	1161.9	1190.1	1203.2	1237.1
3427.4	77.5°	2564.4	1848.1	580.9	537.7	605.4	804.7	981.4	1013.4	977.6	996.4
945.7	80°	866.7	686.2	366.6	409.9	462.5	627.9	785.9	817.8	742.6	738.9
314.0	82.5°	302.7	278.2	233.1	272.6	298.9	449.3	594.1	635.5	552.7	550.9
141.0	85°	118.4	112.8	129.7	148.5	178.6	276.4	391.1	411.7	340.3	274.5
41.4	87.5°	24.4	26.3	32.0	33.8	54.5	95.9	141.0	173.0	137.2	116.6
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°
4053.4
4205.7
4427.5
4683.2
4974.6
5307.4
5717.3
6162.8
6405.4
6279.4
5941.0
5596.9
5296.1
5008.5
4698.3
4367.4
4074.1
4006.4
3825.9
3510.1
3002.5
2587.0
2446.0
2331.3
2271.1
2139.5
1987.2
1803.0
1615.0
1430.7
1240.8
981.4
731.3
524.5
270.7
107.2
0.0

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