

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: P942782

Luminaire Tested: **GALN-SB6D-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942782
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-SB6D-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 42552 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

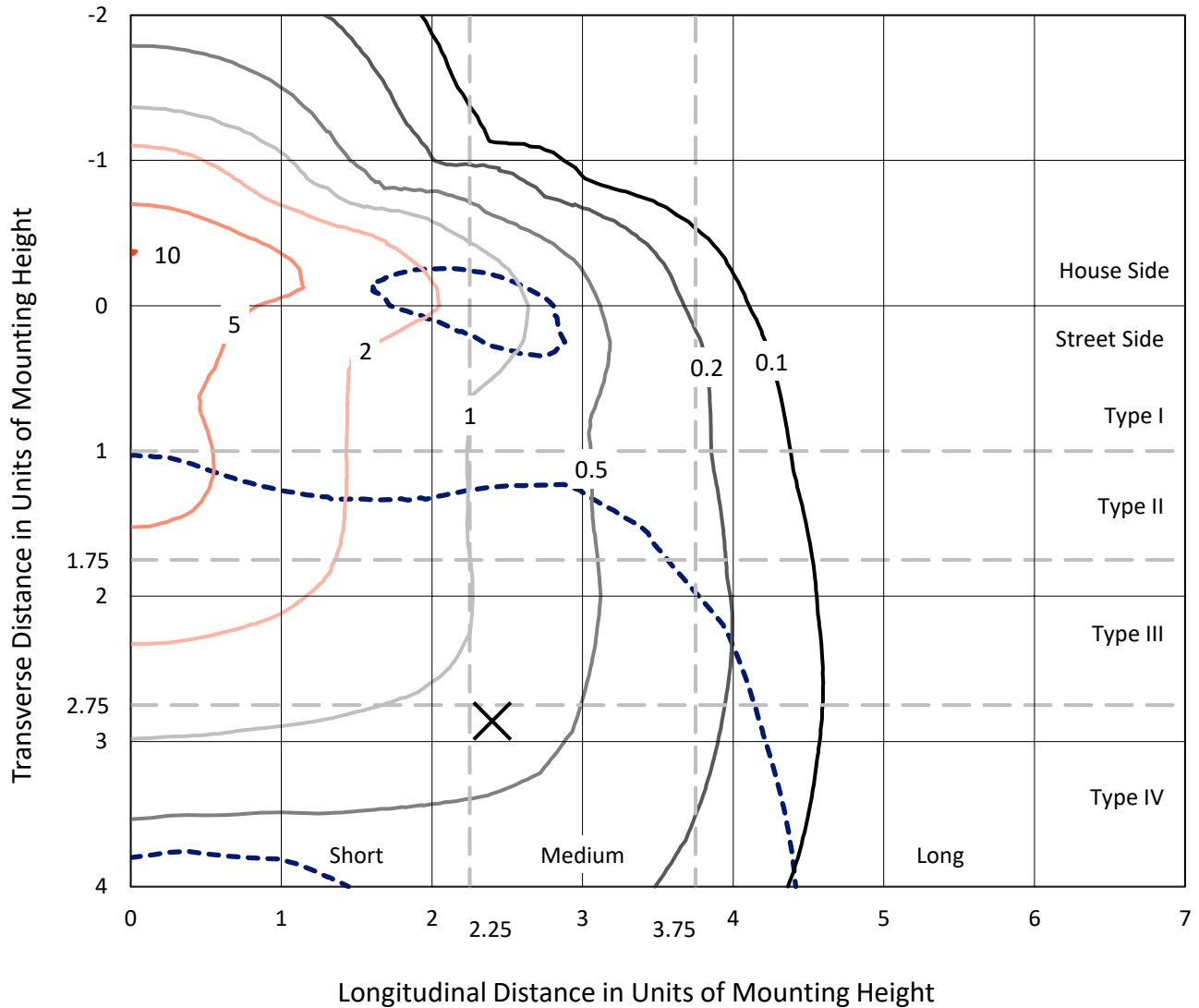
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

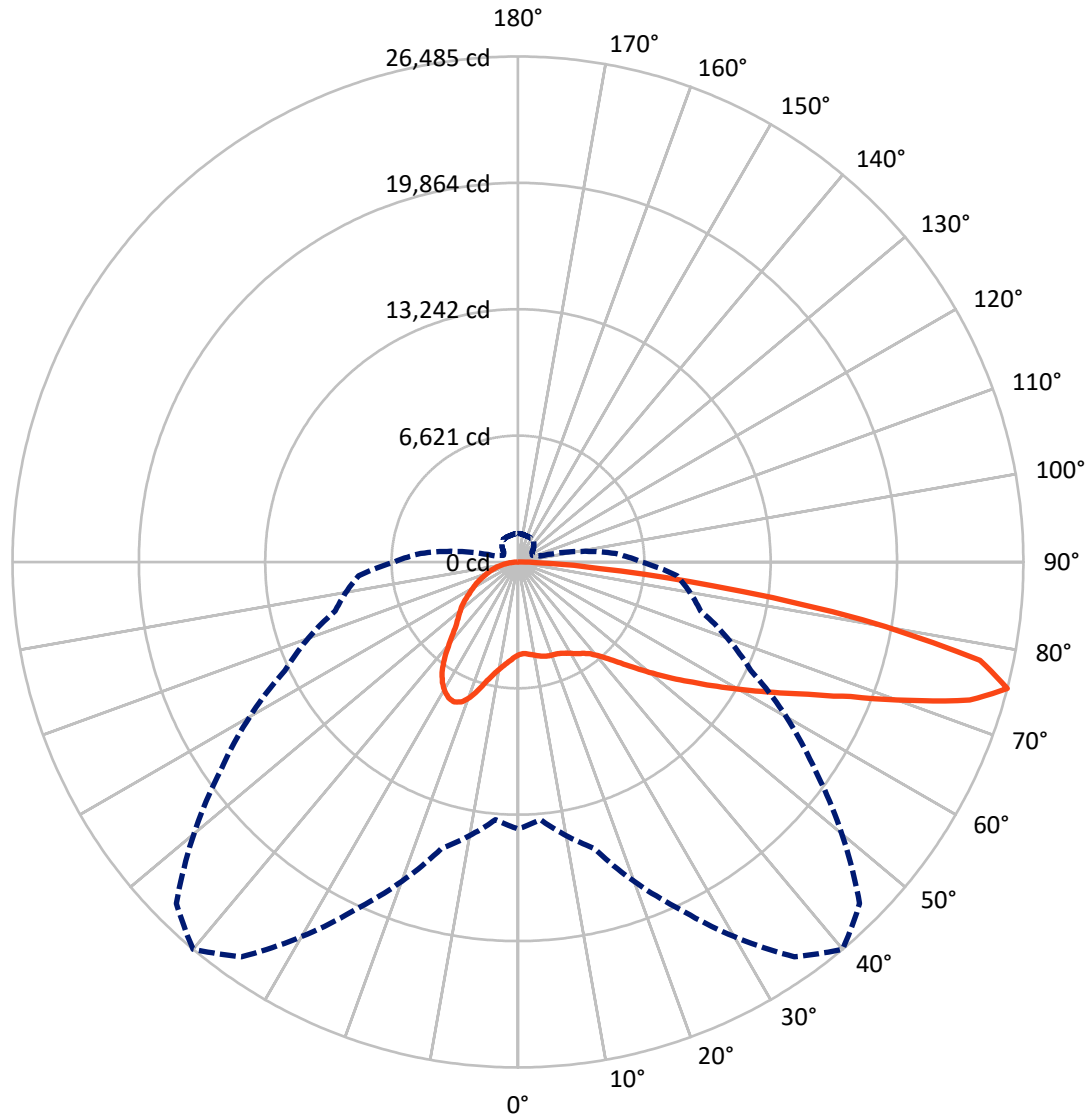
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	13184.0	0.0	13184.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	29368.0	0.0	29368.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	42552.0	0.0	42552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.1
10°-20°	1630.7	3.8
20°-30°	2977.6	7.0
30°-40°	4223.1	9.9
40°-50°	5702.4	13.4
50°-60°	7671.3	18.0
60°-70°	9736.6	22.9
70°-80°	8836.6	20.8
80°-90°	1288.1	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°	42552.0	100.0
0°-180°	42552.0	100.0

Coefficient of Utilization



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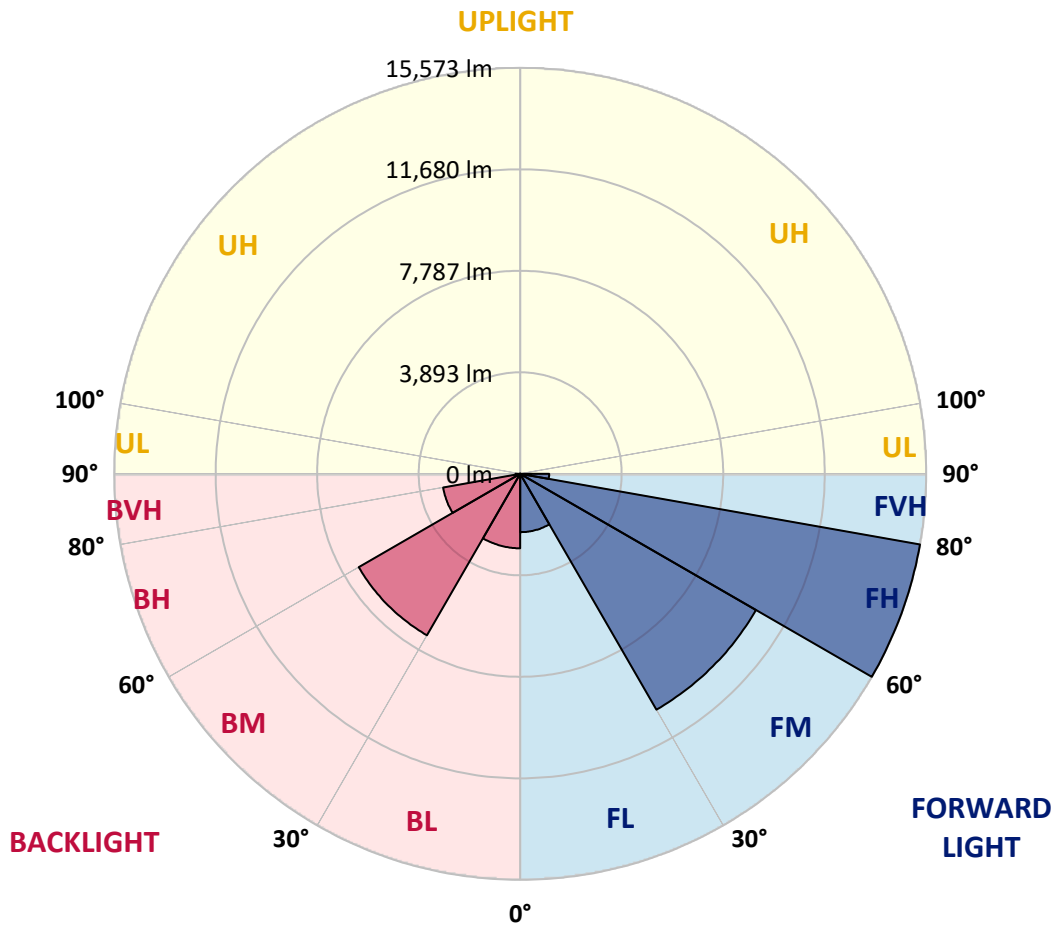
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.3	5.3			
FM (30°-60°)	10445.6	24.5			
FH (60°-80°)	15573.4	36.6			G5
FVH (80°-90°)	1110.8	2.6			G5
BL (0°-30°)	2855.8	6.7	B4/5000		
BM (30°-60°)	7151.1	16.8	B4/8500		
BH (60°-80°)	2999.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	177.3	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°	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9
2.5°	4791.4	4818.5	4811.7	4802.7	4802.7	4804.9	4802.7	4818.5	4834.3	4850.1
5°	4841.1	4868.1	4854.6	4843.3	4834.3	4832.0	4825.3	4823.0	4832.0	4852.3
7.5°	4938.1	4965.2	4944.9	4924.6	4906.5	4897.5	4888.4	4874.9	4868.1	4879.4
10°	5046.4	5073.5	5048.7	5012.6	4983.2	4972.0	4962.9	4949.4	4940.4	4947.1
12.5°	5154.8	5181.8	5148.0	5098.3	5060.0	5053.2	5041.9	5037.4	5035.1	5032.9
15°	5256.3	5278.9	5236.0	5177.3	5136.7	5125.4	5114.1	5120.9	5132.2	5145.7
17.5°	5335.3	5357.9	5294.7	5218.0	5179.6	5175.1	5168.3	5190.9	5222.5	5256.3
20°	5407.5	5430.1	5348.9	5245.0	5199.9	5199.9	5202.2	5249.6	5294.7	5344.3
22.5°	5509.1	5527.1	5427.8	5285.7	5220.2	5224.7	5242.8	5290.2	5346.6	5414.3
25°	5660.3	5673.8	5552.0	5362.4	5287.9	5301.5	5317.3	5339.8	5394.0	5473.0
27.5°	5904.1	5915.3	5755.1	5497.8	5385.0	5407.5	5430.1	5414.3	5439.1	5506.8
30°	6247.1	6253.9	6050.8	5710.0	5549.7	5561.0	5565.5	5500.1	5452.7	5506.8
32.5°	6653.3	6651.1	6409.6	5967.2	5737.0	5725.8	5687.4	5558.7	5448.2	5495.6
35°	7283.0	7258.2	6946.7	6328.3	5949.2	5879.2	5789.0	5624.2	5470.7	5484.3
37.5°	8325.7	8249.0	7817.9	6919.7	6265.2	6086.9	5953.7	5730.3	5520.4	5479.8
40°	9501.6	9404.5	8930.6	7729.9	6739.1	6452.5	6238.1	5881.5	5601.6	5500.1
42.5°	10896.3	10758.6	10248.6	8684.6	7339.4	6924.2	6601.4	6073.3	5721.2	5565.5
45°	12609.3	12426.5	11704.3	9761.1	8095.5	7542.6	7111.5	6364.5	5904.1	5691.9
47.5°	14340.3	14385.5	13358.6	10993.4	9002.8	8305.4	7750.2	6802.3	6170.4	5895.0
50°	16179.7	16211.3	15003.9	12358.8	10031.9	9167.5	8467.9	7292.0	6540.5	6183.9
52.5°	17615.1	17619.6	16497.9	13787.4	11104.0	10115.4	9242.0	7851.8	6969.3	6567.6
55°	18513.4	18502.1	17545.1	15139.3	12336.2	11110.7	10099.6	8488.2	7492.9	7019.0
57.5°	19165.6	19131.7	18267.4	16301.6	13649.7	12286.6	11070.1	9210.4	8111.3	7556.1
60°	19413.9	19393.5	18757.1	17305.9	15031.0	13586.5	12189.5	10018.4	8813.2	8190.3
62.5°	19508.6	19547.0	19237.8	18278.6	16509.2	15026.4	13419.5	10984.3	9603.1	8908.0
65°	19842.7	19912.6	19849.4	19551.5	18179.3	16712.3	15051.3	12133.1	10465.2	9677.6
67.5°	20503.9	20573.9	20601.0	21074.9	20219.6	18813.5	17087.0	13564.0	11474.1	10476.5
70°	20488.1	20467.8	20946.3	22286.9	22774.4	21722.7	19831.4	15324.4	12677.0	11140.1
72.5°	18648.8	18486.3	19617.0	22273.4	24900.4	24760.5	23182.9	17594.8	13715.2	11221.3
75°	13990.5	13557.2	15554.6	20072.9	25254.7	26484.7	25313.4	19003.1	13469.2	9914.6
77.5°	5983.0	5547.5	7901.4	14859.4	22602.9	24758.2	23358.9	16579.2	10751.9	6556.3
80°	1566.3	1564.0	2387.8	6736.8	15371.8	18283.2	16039.8	10706.7	6143.3	2342.7
82.5°	647.7	631.9	877.9	2620.3	7511.0	10259.9	8373.1	4775.6	2218.5	634.2
85°	241.5	239.2	426.6	905.0	2649.6	4231.7	3062.6	1221.0	552.9	309.2
87.5°	67.7	65.5	92.5	313.7	645.5	979.5	523.6	200.9	155.7	121.9
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°
4865.9	0°	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9	4865.9
4874.9	2.5°	4881.7	4893.0	4913.3	4929.1	4949.4	4972.0	5003.5	5023.9	5044.2	5057.7
4886.2	5°	4902.0	4926.8	4978.7	5030.6	5091.6	5148.0	5213.4	5260.8	5299.2	5310.5
4926.8	7.5°	4947.1	4987.8	5075.8	5163.8	5260.8	5353.4	5448.2	5529.4	5594.9	5619.7
4999.0	10°	5026.1	5080.3	5204.4	5328.5	5457.2	5599.4	5721.2	5838.6	5931.1	5969.5
5084.8	12.5°	5125.4	5193.1	5355.6	5527.1	5705.4	5901.8	6059.8	6204.2	6319.3	6371.2
5204.4	15°	5254.1	5342.1	5549.7	5779.9	6041.7	6314.8	6515.7	6675.9	6804.6	6867.7
5328.5	17.5°	5394.0	5511.4	5773.2	6120.7	6495.4	6854.2	7088.9	7206.3	7339.4	7400.4
5443.6	20°	5529.4	5673.8	6048.5	6554.0	7052.8	7434.2	7623.8	7655.4	7664.4	7671.2
5552.0	22.5°	5669.3	5863.4	6393.8	7100.2	7635.1	7899.2	7926.2	7790.8	7601.2	7513.2
5658.1	25°	5822.8	6080.1	6845.2	7702.8	8136.1	8167.7	7960.1	7630.6	7271.7	7107.0
5743.8	27.5°	5971.8	6330.6	7386.8	8278.3	8497.2	8219.6	7772.8	7305.6	6872.3	6698.5
5804.7	30°	6120.7	6617.2	7984.9	8781.6	8662.0	8091.0	7477.1	6955.8	6520.2	6337.4
5858.9	32.5°	6271.9	6951.3	8673.3	9145.0	8632.6	7817.9	7109.2	6563.1	6179.4	5987.6
5906.3	35°	6443.5	7362.0	9325.5	9343.6	8436.3	7416.2	6624.0	6093.6	5759.6	5606.1
5962.7	37.5°	6666.9	7883.4	9901.0	9393.2	8093.2	6827.1	6021.4	5538.4	5263.1	5193.1
6046.2	40°	6944.5	8510.8	10341.1	9314.2	7585.4	6111.7	5362.4	4976.5	4820.7	4836.5
6159.1	42.5°	7305.6	9212.7	10650.3	9111.1	6879.0	5373.7	4784.6	4613.1	4687.6	4750.8
6328.3	45°	7775.0	9941.6	10842.2	8765.8	6080.1	4748.5	4443.8	4484.5	4540.9	4547.7
6601.4	47.5°	8375.4	10679.7	10968.5	8244.5	5265.3	4308.4	4227.2	4236.2	4224.9	4177.5
7009.9	50°	9124.6	11397.3	11081.4	7553.8	4572.5	4033.1	3924.8	3893.2	3737.4	3584.0
7553.8	52.5°	9977.8	12056.4	11128.8	6696.2	4033.1	3802.9	3626.8	3428.2	3137.1	3089.7
8237.7	55°	10925.7	12665.7	11006.9	5642.3	3579.4	3507.2	3240.9	3001.7	2970.1	2929.5
9138.2	57.5°	12058.6	13322.5	10758.6	4466.4	3114.5	3161.9	2902.4	2929.5	2873.0	2809.8
10296.0	60°	13297.7	14001.8	10323.1	3394.4	2633.8	2730.8	2814.4	2812.1	2796.3	2744.4
11517.0	62.5°	14412.6	14448.7	9465.4	2599.9	2211.8	2396.8	2624.8	2622.5	2609.0	2579.6
12792.1	65°	15076.1	14381.0	8034.6	2047.0	1864.2	2121.5	2367.5	2385.5	2387.8	2385.5
13751.3	67.5°	14958.7	13588.8	6071.1	1629.5	1577.6	1841.6	2112.5	2137.3	2155.3	2159.9
13873.2	70°	13631.7	11848.7	3958.6	1300.0	1322.5	1595.6	1871.0	1895.8	1911.6	1929.7
12038.3	72.5°	10625.5	8711.6	2265.9	1051.7	1099.1	1383.5	1631.7	1661.1	1670.1	1704.0
8377.6	75°	6475.0	5123.2	1223.2	828.3	902.8	1182.6	1394.8	1428.6	1444.4	1485.0
4114.3	77.5°	3078.4	2218.5	697.4	645.5	726.7	966.0	1178.1	1216.5	1173.6	1196.2
1135.2	80°	1040.4	823.8	440.1	492.0	555.2	753.8	943.4	981.8	891.5	887.0
376.9	82.5°	363.4	334.0	279.9	327.3	358.8	539.4	713.2	762.8	663.5	661.3
169.3	85°	142.2	135.4	155.7	178.3	214.4	331.8	469.4	494.3	408.5	329.5
49.7	87.5°	29.3	31.6	38.4	40.6	65.5	115.1	169.3	207.6	164.8	139.9
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°
4865.9
5048.7
5315.0
5621.9
5971.8
6371.2
6863.2
7398.1
7689.3
7538.0
7131.8
6718.8
6357.7
6012.4
5640.0
5242.8
4890.7
4809.5
4592.8
4213.6
3604.3
3105.5
2936.2
2798.6
2726.3
2568.4
2385.5
2164.4
1938.7
1717.5
1489.6
1178.1
877.9
629.7
325.0
128.6
0.0

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