

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: P953838

Luminaire Tested: **GALN-SB7B-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39968 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

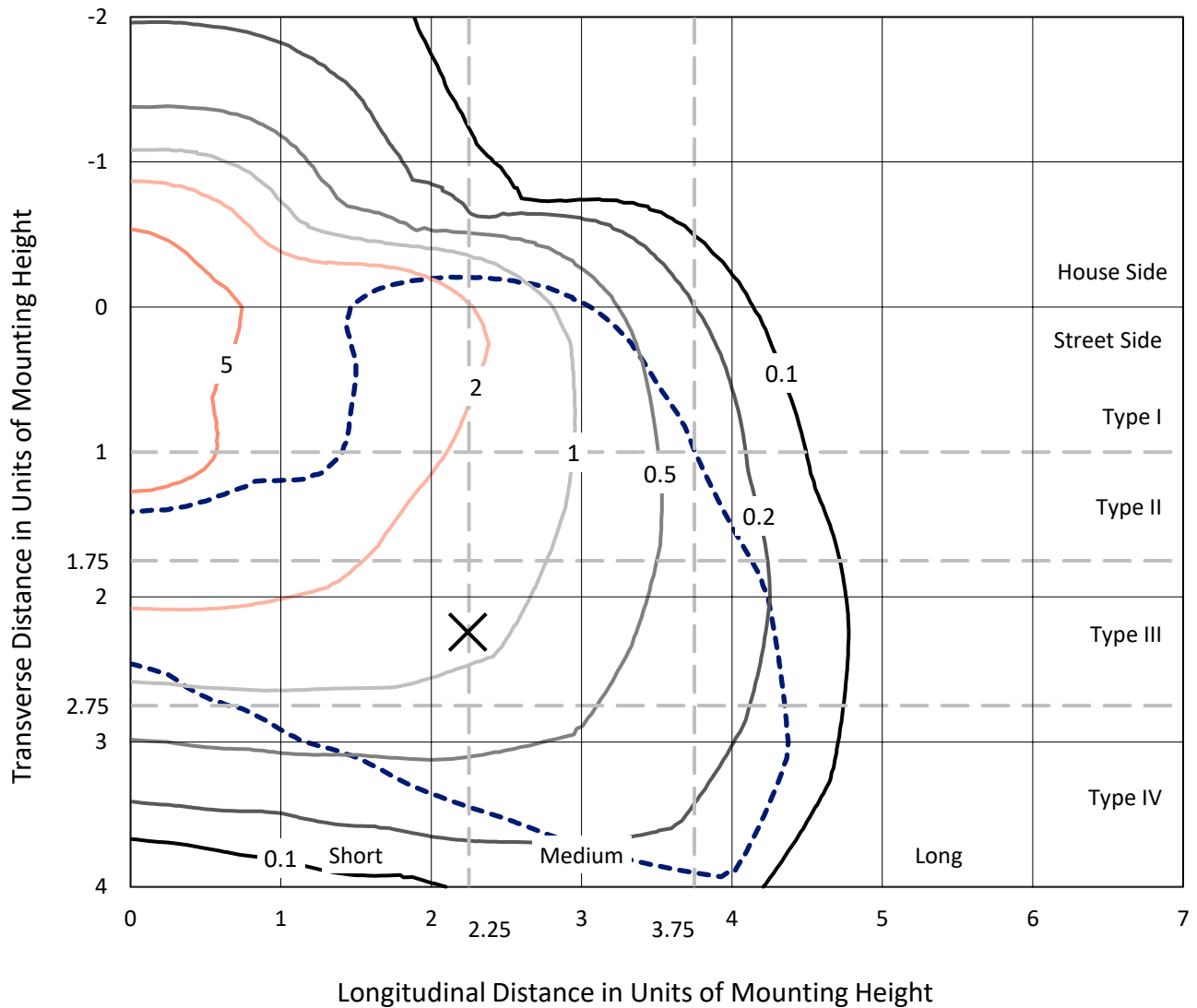
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

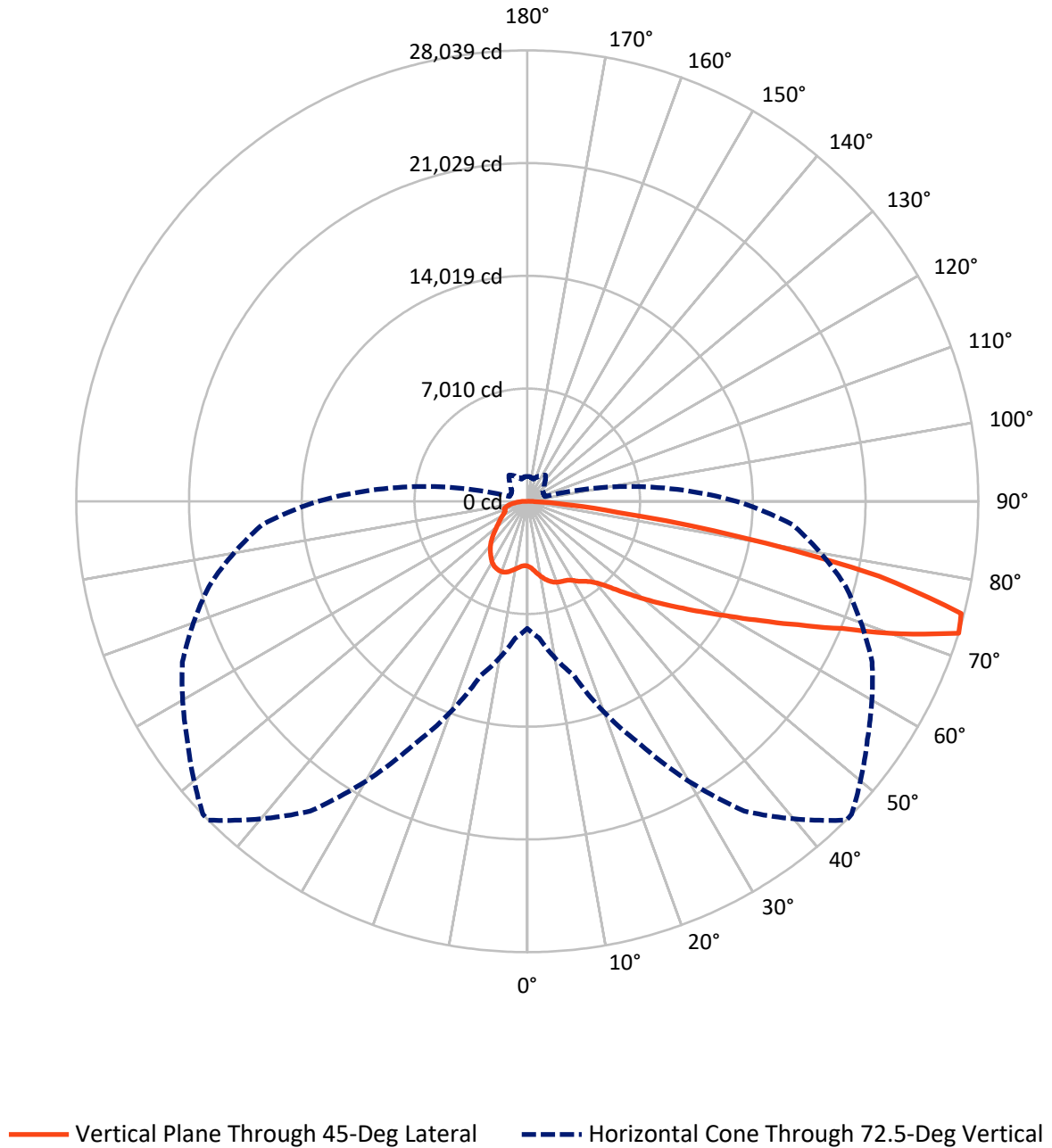
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9035.4	0.0	9035.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30932.6	0.0	30932.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	39968.0	0.0	39968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.0
10°-20°	1368.2	3.4
20°-30°	2380.2	6.0
30°-40°	3412.1	8.5
40°-50°	4804.4	12.0
50°-60°	7358.9	18.4
60°-70°	10660.5	26.7
70°-80°	8513.1	21.3
80°-90°	1060.3	2.7
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°	39968.0	100.0
0°-180°	39968.0	100.0

Coefficient of Utilization



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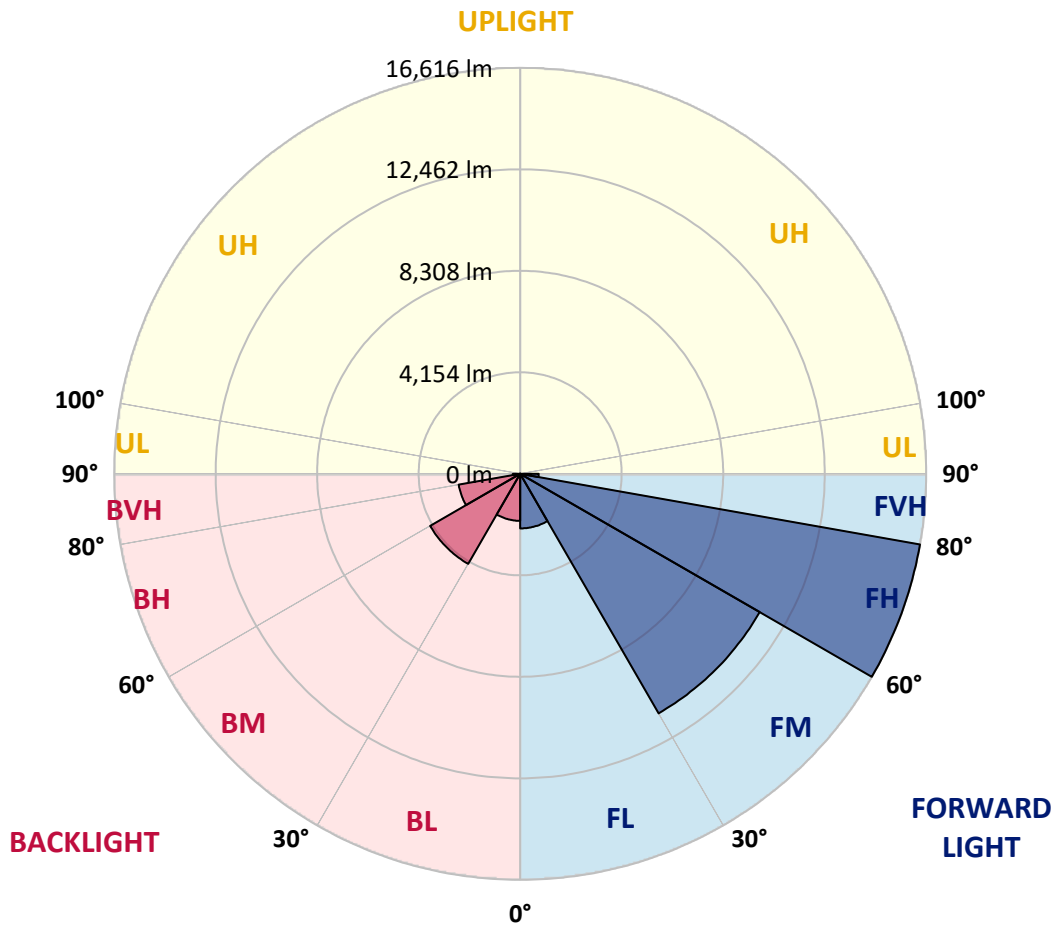
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.1	5.6			
FM (30°-60°)	11321.0	28.3			
FH (60°-80°)	16615.9	41.6			G5
FVH (80°-90°)	760.6	1.9			G5
BL (0°-30°)	1923.7	4.8	B3/2500		
BM (30°-60°)	4254.4	10.6	B3/5000		
BH (60°-80°)	2557.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	299.6	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0
2.5°	4189.9	4217.3	4192.0	4168.8	4158.3	4131.0	4128.8	4112.0	4101.5	4072.0
5°	4482.6	4518.4	4476.2	4429.9	4387.8	4320.4	4312.0	4263.6	4208.9	4145.7
7.5°	4813.1	4844.7	4796.3	4726.8	4653.1	4541.5	4539.4	4451.0	4364.7	4257.3
10°	5101.6	5143.7	5078.4	4983.7	4891.0	4764.7	4750.0	4648.9	4539.4	4400.5
12.5°	5356.3	5385.8	5322.7	5206.9	5099.5	4973.1	4954.2	4842.6	4720.5	4562.6
15°	5558.5	5596.4	5512.1	5387.9	5274.2	5150.0	5133.2	5032.1	4910.0	4743.6
17.5°	5691.1	5722.7	5636.4	5497.4	5387.9	5284.8	5272.1	5187.9	5080.5	4912.1
20°	5741.6	5775.3	5684.8	5543.7	5442.7	5362.7	5356.3	5295.3	5221.6	5067.9
22.5°	5792.2	5823.8	5705.8	5558.5	5470.0	5419.5	5417.4	5377.4	5347.9	5221.6
25°	5996.4	6004.8	5846.9	5634.3	5507.9	5463.7	5461.6	5459.5	5472.1	5373.2
27.5°	6173.3	6171.2	6036.4	5836.4	5640.6	5547.9	5545.8	5566.9	5606.9	5524.8
30°	6432.2	6409.1	6249.1	6040.6	5861.7	5718.5	5705.8	5686.9	5718.5	5653.2
32.5°	6981.8	6908.1	6649.1	6278.5	6044.8	5935.3	5918.5	5800.6	5813.2	5773.2
35°	7769.2	7672.4	7327.1	6729.1	6272.2	6116.4	6108.0	5958.5	5933.2	5897.4
37.5°	8706.2	8586.1	8184.0	7381.8	6663.8	6327.0	6314.3	6179.6	6076.4	6038.5
40°	9647.3	9495.7	9163.0	8177.7	7240.7	6678.6	6638.6	6434.3	6316.4	6253.3
42.5°	10561.1	10434.8	10150.5	9070.4	7952.4	7192.3	7103.9	6754.4	6665.9	6607.0
45°	11369.6	11255.9	11047.5	10024.2	8786.2	7891.3	7805.0	7234.4	7207.1	7207.1
47.5°	12026.5	12001.2	11780.2	10996.9	9769.4	8687.2	8537.7	7901.9	7975.6	8089.3
50°	12755.0	12685.5	12449.7	11954.9	10925.3	9598.9	9476.8	8720.9	8996.7	9308.3
52.5°	13424.5	13462.4	13199.3	12952.9	12230.7	10615.8	10401.1	9687.3	10283.2	10799.0
55°	14113.0	14115.1	14041.4	14007.8	13599.3	11740.2	11504.3	10849.5	11797.0	12437.1
57.5°	14759.4	14763.6	14873.1	15170.0	15186.8	13037.1	12769.7	12277.1	13479.3	14132.0
60°	15336.3	15365.8	15664.8	16359.6	16582.8	14523.6	14270.9	13963.5	15218.4	15875.3
62.5°	15530.0	15637.4	16302.7	17290.2	17961.8	16346.9	16098.5	15915.3	17046.0	17656.6
65°	15201.6	15447.9	16734.4	18058.7	19380.9	18513.5	18267.1	18067.1	18945.1	19519.9
67.5°	14395.2	14713.1	16709.1	18865.1	21103.2	21120.1	20890.6	20421.0	20981.1	21202.2
70°	12270.7	12746.6	15237.4	19166.2	23080.3	24684.6	24463.6	23255.0	23012.9	21943.3
72.5°	7906.1	8546.1	11220.1	16688.0	23520.3	28038.7	28026.0	25813.2	23655.1	20503.2
75°	2884.5	3276.1	5213.2	10474.8	19743.1	27868.1	27950.2	25375.2	21593.8	15837.4
77.5°	1050.6	1149.6	1701.2	4025.7	12142.3	22360.2	22530.7	20286.3	15370.0	7948.2
80°	551.6	606.4	871.7	1562.3	5202.6	13279.3	13546.7	12056.0	7223.9	2393.9
82.5°	305.3	330.6	488.5	848.5	2343.4	5678.5	5838.5	4762.6	2541.3	1014.8
85°	164.2	174.8	229.5	463.2	1145.4	1968.6	2012.8	1423.3	1012.7	595.9
87.5°	48.4	59.0	75.8	147.4	448.5	442.2	452.7	282.1	400.0	301.1
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°
4032.0	0°	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0
4063.6	2.5°	4050.9	4044.6	4021.5	4010.9	3998.3	3996.2	4006.7	4008.8	4010.9	4013.0
4109.9	5°	4088.8	4067.8	4046.7	4034.1	4038.3	4040.4	4061.5	4076.2	4086.7	4095.2
4196.2	7.5°	4162.5	4145.7	4109.9	4107.8	4114.1	4133.1	4160.4	4194.1	4213.1	4227.8
4307.8	10°	4272.0	4240.4	4198.3	4204.6	4217.3	4244.6	4301.5	4328.9	4360.4	4387.8
4444.7	12.5°	4383.6	4356.2	4307.8	4312.0	4333.1	4381.5	4436.2	4469.9	4491.0	4512.0
4592.1	15°	4528.9	4480.5	4427.8	4427.8	4465.7	4518.4	4543.6	4571.0	4583.6	4606.8
4750.0	17.5°	4678.4	4615.2	4545.7	4541.5	4587.8	4613.1	4627.8	4632.1	4636.3	4661.5
4903.7	20°	4827.9	4758.4	4659.4	4651.0	4661.5	4657.3	4655.2	4651.0	4657.3	4688.9
5061.6	22.5°	4975.2	4895.2	4758.4	4720.5	4691.0	4651.0	4648.9	4646.8	4651.0	4682.6
5232.1	25°	5147.9	5051.0	4867.9	4754.2	4655.2	4600.5	4606.8	4608.9	4613.1	4638.4
5409.0	27.5°	5335.3	5227.9	4968.9	4743.6	4564.7	4526.8	4516.3	4522.6	4537.3	4577.3
5585.8	30°	5522.7	5396.3	5061.6	4701.5	4451.0	4398.3	4364.7	4379.4	4425.7	4465.7
5739.5	32.5°	5693.2	5566.9	5135.3	4608.9	4305.7	4223.6	4179.4	4198.3	4244.6	4259.4
5910.1	35°	5893.2	5750.1	5166.8	4461.5	4147.8	4021.5	3962.5	3935.1	3958.3	3943.6
6110.1	37.5°	6116.4	5966.9	5162.6	4267.8	3962.5	3817.2	3735.1	3632.0	3583.5	3533.0
6404.9	40°	6447.0	6232.2	5112.1	4034.1	3733.0	3600.4	3453.0	3278.2	3168.7	3069.8
6880.7	42.5°	6897.6	6600.7	5019.5	3777.2	3474.0	3349.8	3149.8	2945.6	2772.9	2608.7
7602.9	45°	7569.2	7082.8	4903.7	3503.5	3194.0	3071.9	2855.0	2625.5	2429.7	2219.2
8628.3	47.5°	8537.7	7731.3	4794.2	3191.9	2899.2	2787.7	2591.8	2379.2	2147.6	1943.4
10110.5	50°	9868.4	8661.9	4693.1	2888.7	2608.7	2524.5	2368.7	2151.8	1918.1	1753.9
11847.5	52.5°	11561.2	9927.3	4651.0	2596.1	2337.1	2305.5	2181.3	1979.2	1758.1	1619.1
13873.0	55°	13504.5	11441.2	4651.0	2316.0	2099.2	2109.7	2023.4	1836.0	1644.4	1520.2
15961.6	57.5°	15487.9	12974.0	4566.8	2057.1	1897.0	1941.3	1886.5	1722.3	1549.6	1421.2
18157.7	60°	17315.5	14258.3	4225.7	1821.2	1718.1	1787.6	1751.8	1610.7	1400.1	1292.8
19993.6	62.5°	18719.8	14982.6	3568.8	1633.9	1570.7	1650.7	1631.7	1463.3	1372.8	1328.6
21501.2	65°	19423.0	14864.7	2728.7	1467.5	1446.5	1570.7	1530.7	1524.4	1452.8	1402.2
21991.7	67.5°	18991.4	13849.8	1979.2	1345.4	1374.9	1497.0	1650.7	1676.0	1543.3	1444.4
20610.5	70°	17098.6	12013.9	1473.8	1229.6	1284.3	1499.1	1882.3	1753.9	1513.8	1398.0
16530.1	72.5°	13007.7	8958.8	1143.3	1107.5	1166.4	1509.6	1985.5	1718.1	1429.6	1545.4
10297.9	75°	7438.7	4918.4	918.0	958.0	1019.1	1410.7	1932.8	1625.4	1364.4	1419.1
4080.4	77.5°	2836.1	1890.7	758.0	810.6	819.0	1231.7	1848.6	1619.1	1299.1	1267.5
1223.3	80°	983.3	739.0	627.4	644.3	633.7	1094.8	1772.8	1408.6	1063.3	951.7
505.3	82.5°	402.1	368.5	496.9	475.8	450.6	850.6	1431.7	1151.7	869.6	768.5
244.2	85°	174.8	233.7	328.5	288.5	261.1	589.5	1147.5	974.8	734.8	633.7
80.0	87.5°	35.8	88.4	139.0	130.5	134.8	393.7	814.8	692.7	520.1	389.5
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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<u>180°</u>
4032.0
4021.5
4099.4
4232.0
4381.5
4520.5
4615.2
4670.0
4701.5
4703.6
4672.1
4617.3
4509.9
4312.0
3989.9
3564.6
3076.1
2594.0
2193.9
1920.2
1743.3
1608.6
1507.5
1400.1
1275.9
1313.8
1385.4
1427.5
1379.1
1532.8
1419.1
1155.9
920.1
760.1
631.6
305.3
0.0

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