

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: P943442

Luminaire Tested: **GALN-SB7D-935-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943442
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-SB7D-935-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 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: 49904 lumens
Efficiency: N/A
Efficacy: 97.3 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

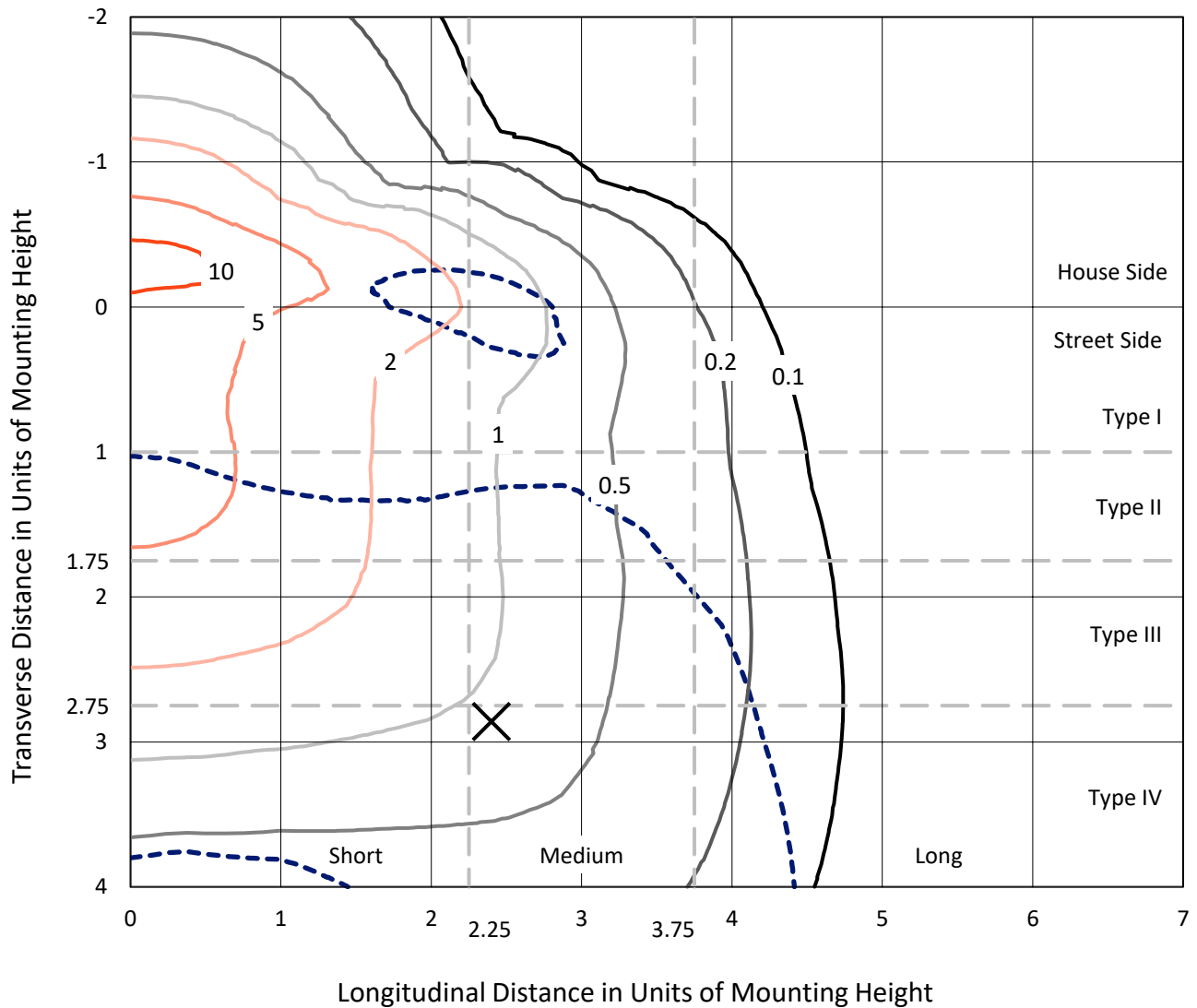
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

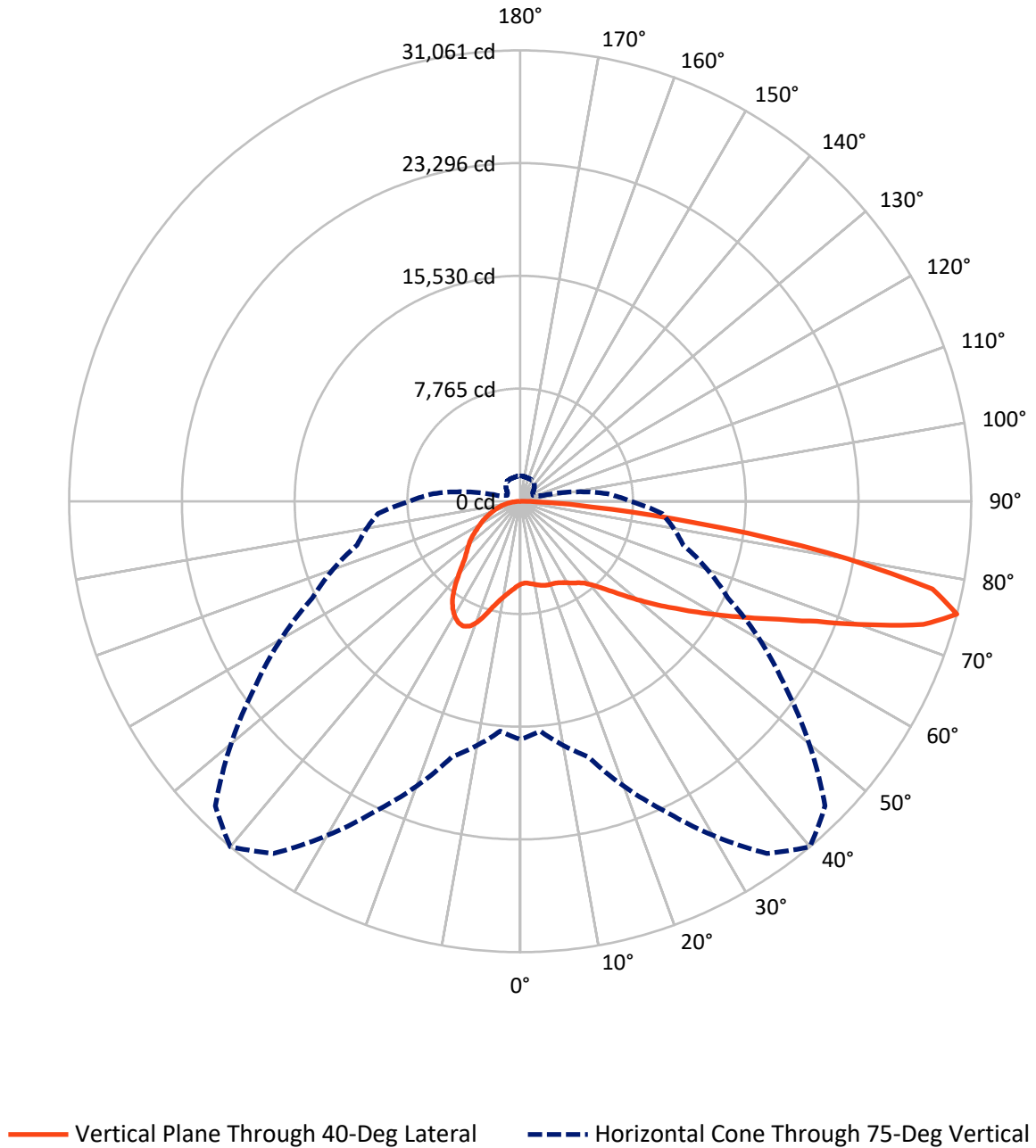
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15461.9	0.0	15461.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	34442.1	0.0	34442.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	49904.0	0.0	49904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.6	1.1
10°-20°	1912.5	3.8
20°-30°	3492.1	7.0
30°-40°	4952.7	9.9
40°-50°	6687.6	13.4
50°-60°	8996.7	18.0
60°-70°	11418.8	22.9
70°-80°	10363.3	20.8
80°-90°	1510.6	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°	49904.0	100.0
0°-180°	49904.0	100.0



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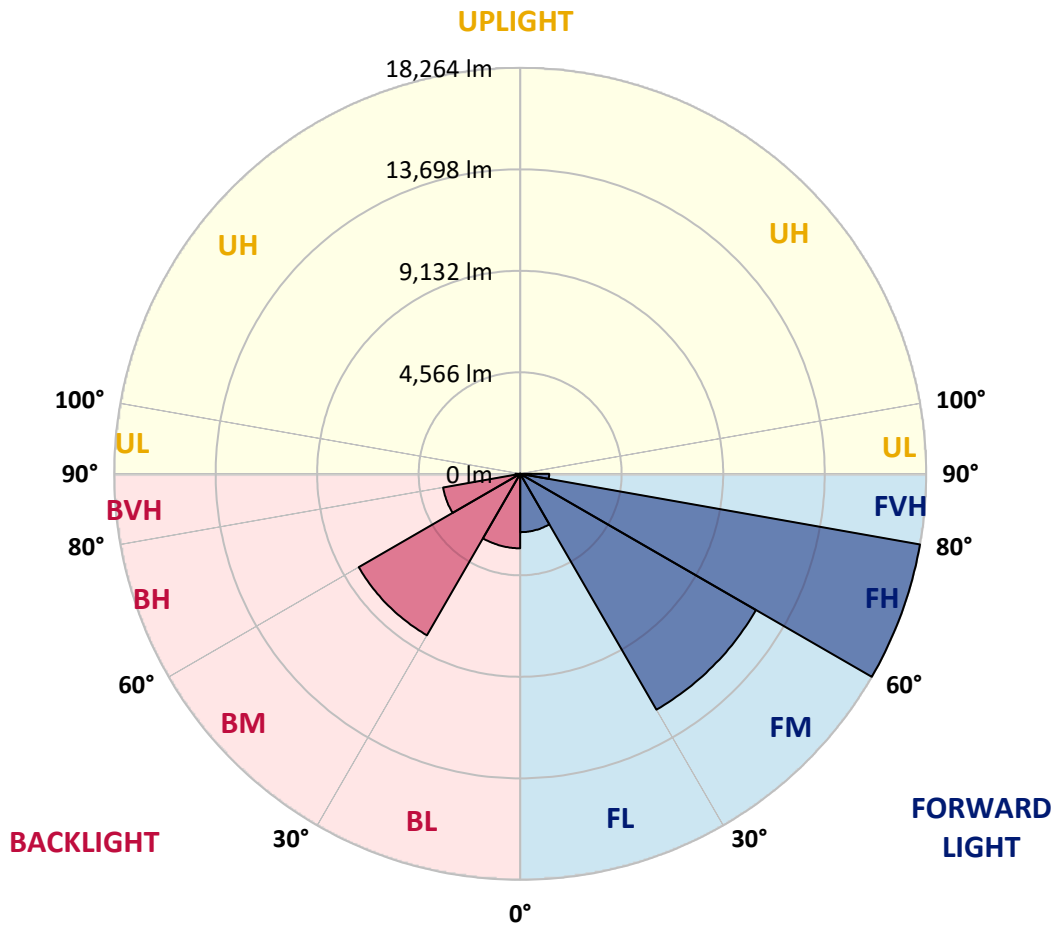
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.0	5.3			
FM (30°-60°)	12250.3	24.5			
FH (60°-80°)	18264.1	36.6			G5
FVH (80°-90°)	1302.7	2.6			G5
BL (0°-30°)	3349.2	6.7	B4/5000		
BM (30°-60°)	8386.7	16.8	B4/8500		
BH (60°-80°)	3518.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	208.0	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°	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6
2.5°	5619.2	5651.0	5643.1	5632.5	5632.5	5635.1	5632.5	5651.0	5669.5	5688.1
5°	5677.5	5709.2	5693.4	5680.1	5669.5	5666.9	5658.9	5656.3	5666.9	5690.7
7.5°	5791.3	5823.0	5799.2	5775.4	5754.2	5743.6	5733.1	5717.2	5709.2	5722.5
10°	5918.3	5950.1	5921.0	5878.6	5844.2	5831.0	5820.4	5804.5	5793.9	5801.9
12.5°	6045.4	6077.1	6037.4	5979.2	5934.2	5926.3	5913.0	5907.7	5905.1	5902.5
15°	6164.5	6191.0	6140.7	6071.9	6024.2	6011.0	5997.7	6005.7	6018.9	6034.8
17.5°	6257.1	6283.6	6209.5	6119.5	6074.5	6069.2	6061.3	6087.7	6124.8	6164.5
20°	6341.8	6368.3	6273.0	6151.3	6098.3	6098.3	6101.0	6156.6	6209.5	6267.7
22.5°	6460.9	6482.1	6365.7	6198.9	6122.1	6127.4	6148.6	6204.2	6270.4	6349.8
25°	6638.3	6654.2	6511.2	6288.9	6201.5	6217.4	6236.0	6262.4	6325.9	6418.6
27.5°	6924.1	6937.4	6749.4	6447.7	6315.4	6341.8	6368.3	6349.8	6378.9	6458.3
30°	7326.5	7334.4	7096.2	6696.5	6508.6	6521.8	6527.1	6450.4	6394.8	6458.3
32.5°	7802.9	7800.2	7517.0	6998.2	6728.3	6715.0	6670.0	6519.2	6389.5	6445.1
35°	8541.4	8512.2	8147.0	7421.7	6977.1	6895.0	6789.1	6595.9	6415.9	6431.8
37.5°	9764.2	9674.2	9168.7	8115.2	7347.6	7138.5	6982.4	6720.3	6474.2	6426.5
40°	11143.2	11029.4	10473.5	9065.4	7903.5	7567.3	7315.9	6897.7	6569.5	6450.4
42.5°	12778.9	12617.5	12019.3	10185.0	8607.5	8120.5	7742.0	7122.6	6709.7	6527.1
45°	14787.9	14573.5	13726.5	11447.6	9494.2	8845.7	8340.2	7464.1	6924.1	6675.3
47.5°	16818.0	16871.0	15666.7	12892.8	10558.2	9740.4	9089.3	7977.6	7236.5	6913.5
50°	18975.2	19012.3	17596.2	14494.1	11765.2	10751.5	9930.9	8551.9	7670.5	7252.3
52.5°	20658.6	20663.9	19348.4	16169.6	13022.5	11863.1	10838.8	9208.4	8173.4	7702.3
55°	21712.0	21698.8	20576.5	17755.0	14467.6	13030.4	11844.6	9954.8	8787.5	8231.7
57.5°	22477.0	22437.3	21423.5	19118.1	16008.1	14409.4	12982.8	10801.8	9512.7	8861.6
60°	22768.1	22744.3	21997.9	20296.0	17628.0	15934.0	14295.6	11749.3	10335.9	9605.4
62.5°	22879.3	22924.3	22561.7	21436.8	19361.6	17622.7	15738.1	12882.2	11262.3	10447.1
65°	23271.0	23353.1	23279.0	22929.6	21320.3	19599.9	17651.8	14229.4	12273.4	11349.7
67.5°	24046.5	24128.6	24160.4	24716.2	23713.0	22064.1	20039.2	15907.5	13456.5	12286.6
70°	24028.0	24004.2	24565.3	26137.6	26709.3	25475.8	23257.8	17972.0	14867.3	13064.8
72.5°	21870.8	21680.3	23006.3	26121.7	29202.6	29038.5	27188.3	20634.8	16084.9	13160.1
75°	16407.8	15899.6	18242.0	23541.0	29618.1	31060.7	29687.0	22286.4	15796.3	11627.6
77.5°	7016.8	6505.9	9266.6	17426.8	26508.1	29035.8	27394.8	19443.7	12609.5	7689.1
80°	1836.9	1834.3	2800.4	7900.8	18027.6	21442.1	18811.1	12556.6	7204.7	2747.4
82.5°	759.6	741.1	1029.6	3073.0	8808.7	12032.5	9819.8	5600.7	2601.8	743.8
85°	283.2	280.6	500.3	1061.4	3107.4	4962.8	3591.8	1431.9	648.5	362.6
87.5°	79.4	76.8	108.5	367.9	757.0	1148.7	614.1	235.6	182.6	142.9
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°
5706.6	0°	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6	5706.6
5717.2	2.5°	5725.1	5738.4	5762.2	5780.7	5804.5	5831.0	5868.0	5891.9	5915.7	5931.6
5730.4	5°	5748.9	5778.1	5838.9	5899.8	5971.3	6037.4	6114.2	6169.8	6214.8	6228.0
5778.1	7.5°	5801.9	5849.5	5952.7	6056.0	6169.8	6278.3	6389.5	6484.8	6561.5	6590.6
5862.8	10°	5894.5	5958.0	6103.6	6249.2	6400.1	6566.8	6709.7	6847.4	6955.9	7000.9
5963.3	12.5°	6011.0	6090.4	6281.0	6482.1	6691.2	6921.5	7106.8	7276.2	7411.2	7472.0
6103.6	15°	6161.8	6265.1	6508.6	6778.6	7085.6	7405.9	7641.4	7829.4	7980.2	8054.3
6249.2	17.5°	6325.9	6463.6	6770.6	7178.2	7617.6	8038.5	8313.7	8451.4	8607.5	8679.0
6384.2	20°	6484.8	6654.2	7093.5	7686.4	8271.4	8718.7	8941.0	8978.1	8988.7	8996.6
6511.2	22.5°	6648.9	6876.5	7498.5	8327.0	8954.3	9263.9	9295.7	9136.9	8914.6	8811.3
6635.6	25°	6828.8	7130.6	8027.9	9033.7	9541.9	9578.9	9335.4	8949.0	8528.1	8334.9
6736.2	27.5°	7003.5	7424.4	8663.1	9708.6	9965.4	9639.8	9115.7	8567.8	8059.6	7855.8
6807.7	30°	7178.2	7760.5	9364.5	10298.9	10158.6	9488.9	8769.0	8157.6	7646.7	7432.3
6871.2	32.5°	7355.6	8152.3	10171.8	10725.0	10124.2	9168.7	8337.5	7697.0	7247.1	7022.1
6926.8	35°	7556.7	8634.0	10936.7	10957.9	9893.9	8697.5	7768.5	7146.5	6754.7	6574.8
6993.0	37.5°	7818.8	9245.4	11611.7	11016.2	9491.6	8006.7	7061.8	6495.3	6172.4	6090.4
7090.9	40°	8144.3	9981.2	12127.8	10923.5	8896.0	7167.6	6288.9	5836.3	5653.7	5672.2
7223.2	42.5°	8567.8	10804.4	12490.4	10685.3	8067.6	6302.1	5611.3	5410.1	5497.5	5571.6
7421.7	45°	9118.4	11659.3	12715.4	10280.3	7130.6	5569.0	5211.6	5259.3	5325.4	5333.4
7742.0	47.5°	9822.4	12524.9	12863.6	9668.9	6175.1	5052.8	4957.5	4968.1	4954.9	4899.3
8221.1	50°	10701.2	13366.5	12996.0	8859.0	5362.5	4729.9	4602.9	4565.8	4383.2	4203.2
8859.0	52.5°	11701.7	14139.4	13051.6	7853.2	4729.9	4459.9	4253.5	4020.6	3679.1	3623.5
9661.0	55°	12813.4	14854.1	12908.6	6617.1	4197.9	4113.2	3800.9	3520.3	3483.2	3435.6
10717.1	57.5°	14142.1	15624.3	12617.5	5238.1	3652.6	3708.2	3403.8	3435.6	3369.4	3295.3
12074.9	60°	15595.2	16421.0	12106.7	3980.8	3088.9	3202.7	3300.6	3298.0	3279.4	3218.6
13506.8	62.5°	16902.7	16945.1	11100.9	3049.2	2593.9	2810.9	3078.3	3075.6	3059.7	3025.3
15002.3	65°	17680.9	16865.7	9422.8	2400.7	2186.3	2488.0	2776.5	2797.7	2800.4	2797.7
16127.2	67.5°	17543.3	15936.6	7120.0	1911.0	1850.1	2159.8	2477.4	2506.6	2527.7	2533.0
16270.1	70°	15986.9	13895.9	4642.6	1524.6	1551.0	1871.3	2194.2	2223.3	2241.9	2263.0
14118.2	72.5°	12461.3	10216.8	2657.4	1233.4	1289.0	1622.5	1913.7	1948.1	1958.7	1998.4
9825.1	75°	7593.8	6008.3	1434.6	971.4	1058.7	1386.9	1635.7	1675.5	1694.0	1741.6
4825.2	77.5°	3610.3	2601.8	817.9	757.0	852.3	1132.8	1381.7	1426.6	1376.4	1402.8
1331.4	80°	1220.2	966.1	516.1	577.0	651.1	884.0	1106.4	1151.4	1045.5	1040.2
442.0	82.5°	426.1	391.7	328.2	383.8	420.8	632.6	836.4	894.6	778.2	775.5
198.5	85°	166.8	158.8	182.6	209.1	251.4	389.1	550.5	579.7	479.1	386.4
58.2	87.5°	34.4	37.1	45.0	47.6	76.8	135.0	198.5	243.5	193.2	164.1
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>
5706.6
5921.0
6233.3
6593.3
7003.5
7472.0
8049.0
8676.3
9017.8
8840.4
8364.0
7879.6
7456.2
7051.2
6614.5
6148.6
5735.7
5640.4
5386.3
4941.7
4227.0
3642.1
3443.5
3282.1
3197.4
3012.1
2797.7
2538.3
2273.6
2014.2
1746.9
1381.7
1029.6
738.5
381.1
150.9
0.0

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