

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: P953124

Luminaire Tested: **GALN-SB6D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953124
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-SB6D-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61588 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

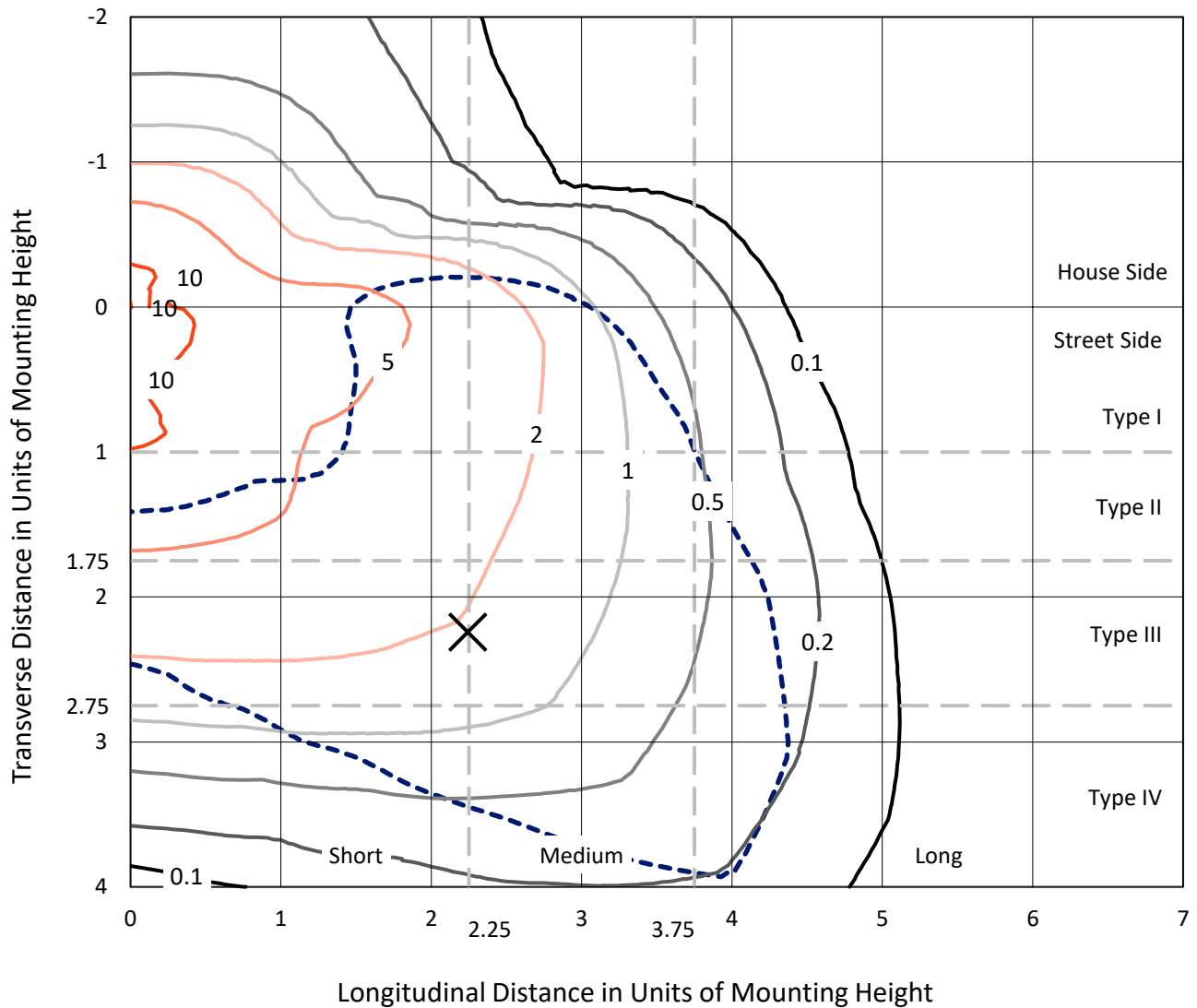
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

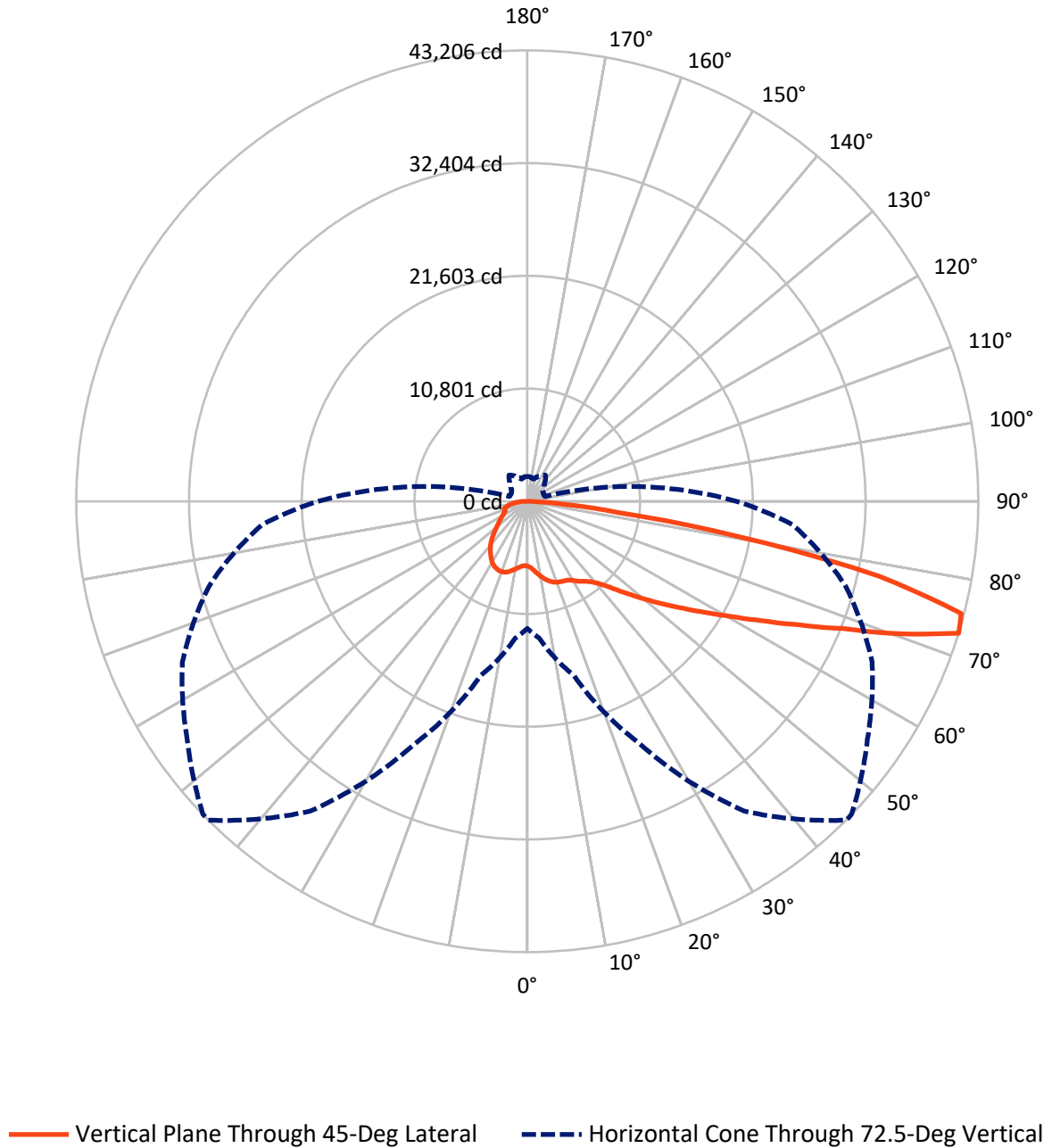
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	13922.9	0.0	13922.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	47665.1	0.0	47665.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	61588.0	0.0	61588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.4	1.0
10°-20°	2108.4	3.4
20°-30°	3667.7	6.0
30°-40°	5257.8	8.5
40°-50°	7403.3	12.0
50°-60°	11339.6	18.4
60°-70°	16427.1	26.7
70°-80°	13118.0	21.3
80°-90°	1633.8	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°	61588.0	100.0
0°-180°	61588.0	100.0

Coefficient of Utilization



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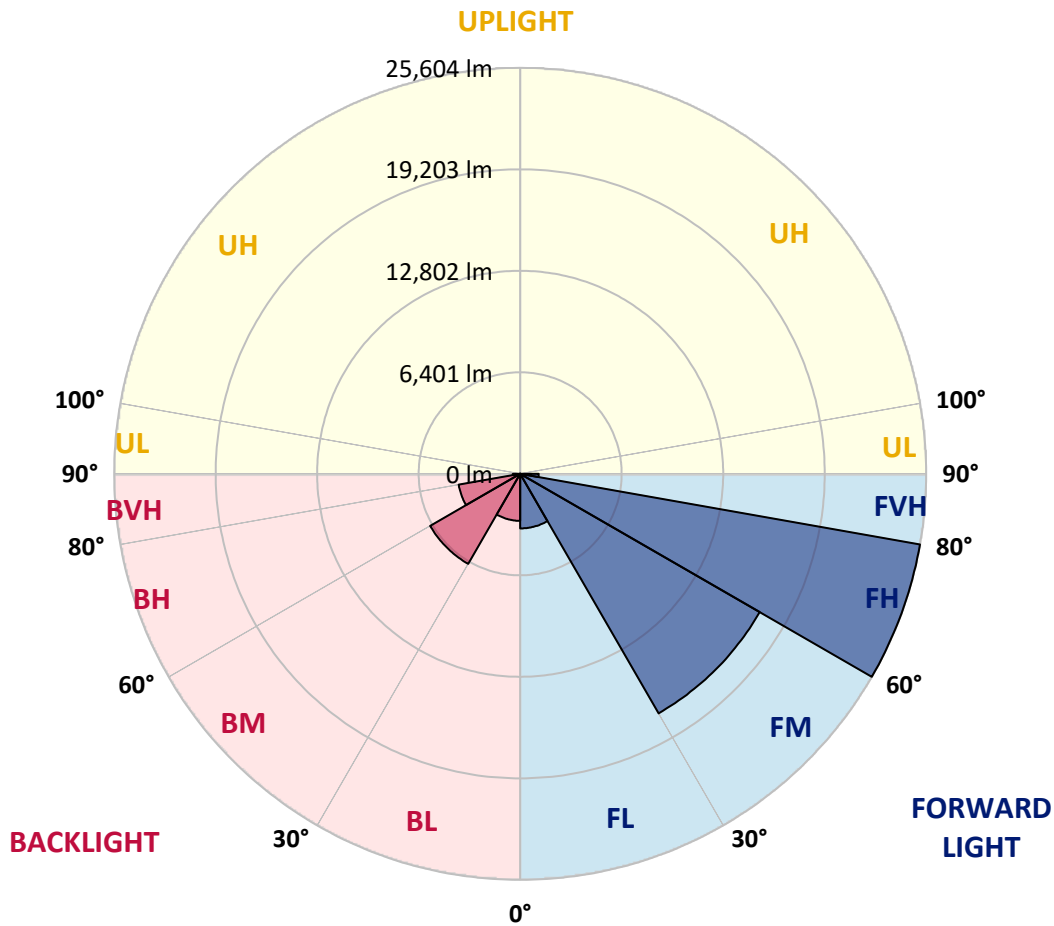
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.1	5.6			
FM (30°-60°)	17444.9	28.3			
FH (60°-80°)	25603.9	41.6			G5
FVH (80°-90°)	1172.1	1.9			G5
BL (0°-30°)	2964.3	4.8	B4/5000		
BM (30°-60°)	6555.7	10.6	B4/8500		
BH (60°-80°)	3941.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	461.7	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°	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0
2.5°	6456.4	6498.5	6459.6	6423.9	6407.7	6365.5	6362.3	6336.3	6320.1	6274.7
5°	6907.3	6962.5	6897.6	6826.2	6761.3	6657.5	6644.5	6569.9	6485.6	6388.2
7.5°	7416.7	7465.4	7390.7	7283.7	7170.1	6998.2	6994.9	6858.7	6725.6	6560.2
10°	7861.2	7926.1	7825.5	7679.5	7536.7	7342.1	7319.4	7163.6	6994.9	6780.8
12.5°	8253.8	8299.2	8201.8	8023.4	7857.9	7663.3	7634.1	7462.1	7274.0	7030.6
15°	8565.2	8623.6	8493.8	8302.4	8127.2	7935.8	7909.9	7754.1	7565.9	7309.6
17.5°	8769.6	8818.3	8685.3	8471.1	8302.4	8143.4	8124.0	7994.2	7828.7	7569.2
20°	8847.5	8899.4	8759.9	8542.5	8386.8	8263.5	8253.8	8159.7	8046.1	7809.3
22.5°	8925.4	8974.0	8792.3	8565.2	8429.0	8351.1	8347.8	8286.2	8240.8	8046.1
25°	9240.1	9253.0	9009.7	8682.0	8487.4	8419.2	8416.0	8412.7	8432.2	8279.7
27.5°	9512.6	9509.3	9301.7	8993.5	8691.8	8549.0	8545.8	8578.2	8639.8	8513.3
30°	9911.6	9876.0	9629.4	9308.2	9032.4	8811.8	8792.3	8763.1	8811.8	8711.2
32.5°	10758.4	10644.9	10245.8	9674.8	9314.7	9146.0	9120.0	8938.3	8957.8	8896.2
35°	11971.8	11822.6	11290.5	10369.1	9665.1	9425.0	9412.0	9181.7	9142.7	9087.6
37.5°	13415.6	13230.7	12611.0	11374.9	10268.5	9749.4	9730.0	9522.3	9363.3	9304.9
40°	14865.9	14632.3	14119.6	12601.3	11157.5	10291.2	10229.6	9914.9	9733.2	9635.9
42.5°	16273.9	16079.3	15641.3	13976.9	12254.1	11082.9	10946.6	10408.0	10271.8	10180.9
45°	17519.8	17344.6	17023.4	15446.6	13538.9	12160.0	12027.0	11147.8	11105.6	11105.6
47.5°	18532.0	18493.1	18152.4	16945.5	15054.0	13386.4	13156.1	12176.2	12289.8	12465.0
50°	19654.6	19547.5	19184.2	18421.7	16835.2	14791.2	14603.1	13438.3	13863.3	14343.5
52.5°	20686.3	20744.7	20339.2	19959.6	18846.7	16358.3	16027.3	14927.5	15845.7	16640.5
55°	21747.2	21750.5	21636.9	21585.0	20955.6	18090.8	17727.4	16718.4	18178.4	19164.7
57.5°	22743.3	22749.7	22918.5	23375.9	23401.9	20089.3	19677.3	18918.1	20770.7	21776.4
60°	23632.2	23677.6	24138.4	25209.0	25552.9	22379.9	21990.6	21516.9	23450.5	24462.8
62.5°	23930.7	24096.2	25121.4	26643.0	27678.0	25189.5	24806.7	24524.4	26266.7	27207.6
65°	23424.6	23804.2	25786.5	27827.2	29864.7	28528.0	28148.4	27840.2	29193.1	30078.9
67.5°	22182.0	22671.9	25747.6	29069.8	32518.6	32544.6	32191.0	31467.5	32330.5	32671.1
70°	18908.4	19641.6	23479.7	29533.8	35565.1	38037.4	37696.7	35834.4	35461.3	33813.2
72.5°	12182.7	13169.0	17289.4	25715.1	36243.2	43205.7	43186.2	39776.4	36450.9	31594.0
75°	4444.8	5048.3	8033.1	16140.9	30422.8	42942.9	43069.4	39101.5	33274.6	24404.4
77.5°	1619.0	1771.4	2621.5	6203.3	18710.5	34455.6	34718.3	31259.8	23684.1	12247.6
80°	850.0	934.4	1343.2	2407.3	8016.9	20462.4	20874.5	18577.4	11131.5	3688.9
82.5°	470.4	509.4	752.7	1307.5	3611.0	8750.2	8996.7	7338.8	3916.0	1563.8
85°	253.1	269.3	353.6	713.8	1765.0	3033.5	3101.6	2193.2	1560.6	918.2
87.5°	74.6	90.8	116.8	227.1	691.1	681.3	697.5	434.7	616.4	463.9
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°
6213.0	0°	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0	6213.0
6261.7	2.5°	6242.2	6232.5	6196.8	6180.6	6161.1	6157.9	6174.1	6177.3	6180.6	6183.8
6333.1	5°	6300.6	6268.2	6235.7	6216.3	6222.8	6226.0	6258.5	6281.2	6297.4	6310.4
6466.1	7.5°	6414.2	6388.2	6333.1	6329.8	6339.6	6368.8	6410.9	6462.8	6492.0	6514.8
6638.0	10°	6582.9	6534.2	6469.3	6479.1	6498.5	6540.7	6628.3	6670.5	6719.2	6761.3
6848.9	12.5°	6754.8	6712.7	6638.0	6644.5	6677.0	6751.6	6836.0	6887.9	6920.3	6952.8
7076.0	15°	6978.7	6904.1	6823.0	6823.0	6881.4	6962.5	7001.4	7043.6	7063.1	7098.8
7319.4	17.5°	7209.1	7111.7	7004.7	6998.2	7069.6	7108.5	7131.2	7137.7	7144.2	7183.1
7556.2	20°	7439.4	7332.3	7179.9	7166.9	7183.1	7176.6	7173.4	7166.9	7176.6	7225.3
7799.5	22.5°	7666.5	7543.2	7332.3	7274.0	7228.5	7166.9	7163.6	7160.4	7166.9	7215.6
8062.3	25°	7932.6	7783.3	7501.1	7325.9	7173.4	7089.0	7098.8	7102.0	7108.5	7147.4
8334.9	27.5°	8221.3	8055.9	7656.8	7309.6	7033.9	6975.5	6959.2	6969.0	6991.7	7053.3
8607.4	30°	8510.1	8315.4	7799.5	7244.8	6858.7	6777.6	6725.6	6748.4	6819.7	6881.4
8844.2	32.5°	8772.9	8578.2	7913.1	7102.0	6634.8	6508.3	6440.1	6469.3	6540.7	6563.4
9107.0	35°	9081.1	8860.5	7961.8	6874.9	6391.5	6196.8	6106.0	6063.8	6099.5	6076.8
9415.3	37.5°	9425.0	9194.6	7955.3	6576.4	6106.0	5882.1	5755.6	5596.6	5522.0	5444.1
9869.5	40°	9934.4	9603.4	7877.4	6216.3	5752.3	5547.9	5320.8	5051.5	4882.8	4730.3
10602.7	42.5°	10628.7	10171.2	7734.7	5820.5	5353.3	5161.8	4853.6	4538.9	4272.9	4019.8
11715.5	45°	11663.6	10914.2	7556.2	5398.7	4921.8	4733.6	4399.4	4045.8	3744.0	3419.6
13295.6	47.5°	13156.1	11913.4	7387.5	4918.5	4467.5	4295.6	3993.9	3666.2	3309.3	2994.6
15579.6	50°	15206.5	13347.5	7231.8	4451.3	4019.8	3890.0	3650.0	3315.8	2955.7	2702.6
18256.3	52.5°	17815.0	15297.4	7166.9	4000.3	3601.3	3552.6	3361.2	3049.7	2709.1	2494.9
21377.4	55°	20809.6	17630.1	7166.9	3568.8	3234.7	3250.9	3117.9	2829.1	2533.9	2342.5
24595.8	57.5°	23865.8	19992.0	7037.1	3169.8	2923.2	2991.3	2907.0	2653.9	2387.9	2190.0
27979.7	60°	26682.0	21971.1	6511.5	2806.4	2647.4	2754.5	2699.3	2482.0	2157.5	1992.1
30808.8	62.5°	28846.0	23087.2	5499.3	2517.7	2420.3	2543.6	2514.4	2254.9	2115.4	2047.2
33131.8	65°	29929.6	22905.5	4204.7	2261.3	2228.9	2420.3	2358.7	2348.9	2238.6	2160.8
33887.8	67.5°	29264.5	21341.7	3049.7	2073.2	2118.6	2306.8	2543.6	2582.5	2378.1	2225.7
31759.5	70°	26347.8	18512.6	2271.1	1894.7	1979.1	2310.0	2900.5	2702.6	2332.7	2154.3
25471.8	72.5°	20043.9	13804.9	1761.7	1706.6	1797.4	2326.2	3059.5	2647.4	2202.9	2381.4
15868.4	75°	11462.5	7578.9	1414.6	1476.2	1570.3	2173.7	2978.4	2504.7	2102.4	2186.7
6287.7	77.5°	4370.2	2913.5	1168.0	1249.1	1262.1	1898.0	2848.6	2494.9	2001.8	1953.1
1885.0	80°	1515.1	1138.8	966.8	992.8	976.6	1687.1	2731.8	2170.5	1638.4	1466.5
778.7	82.5°	619.7	567.8	765.7	733.2	694.3	1310.7	2206.2	1774.7	1339.9	1184.2
376.4	85°	269.3	360.1	506.1	444.5	402.3	908.4	1768.2	1502.2	1132.3	976.6
123.3	87.5°	55.2	136.3	214.1	201.2	207.6	606.7	1255.6	1067.4	801.4	600.2
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>
6213.0
6196.8
6316.9
6521.2
6751.6
6965.7
7111.7
7196.1
7244.8
7248.0
7199.3
7115.0
6949.5
6644.5
6148.1
5492.8
4740.1
3997.1
3380.7
2958.9
2686.4
2478.7
2323.0
2157.5
1966.1
2024.5
2134.8
2199.7
2125.1
2361.9
2186.7
1781.2
1417.8
1171.2
973.3
470.4
0.0

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