

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: P943469

Luminaire Tested: **GALN-SB7D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49758 lumens
Efficiency: N/A
Efficacy: 97.0 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

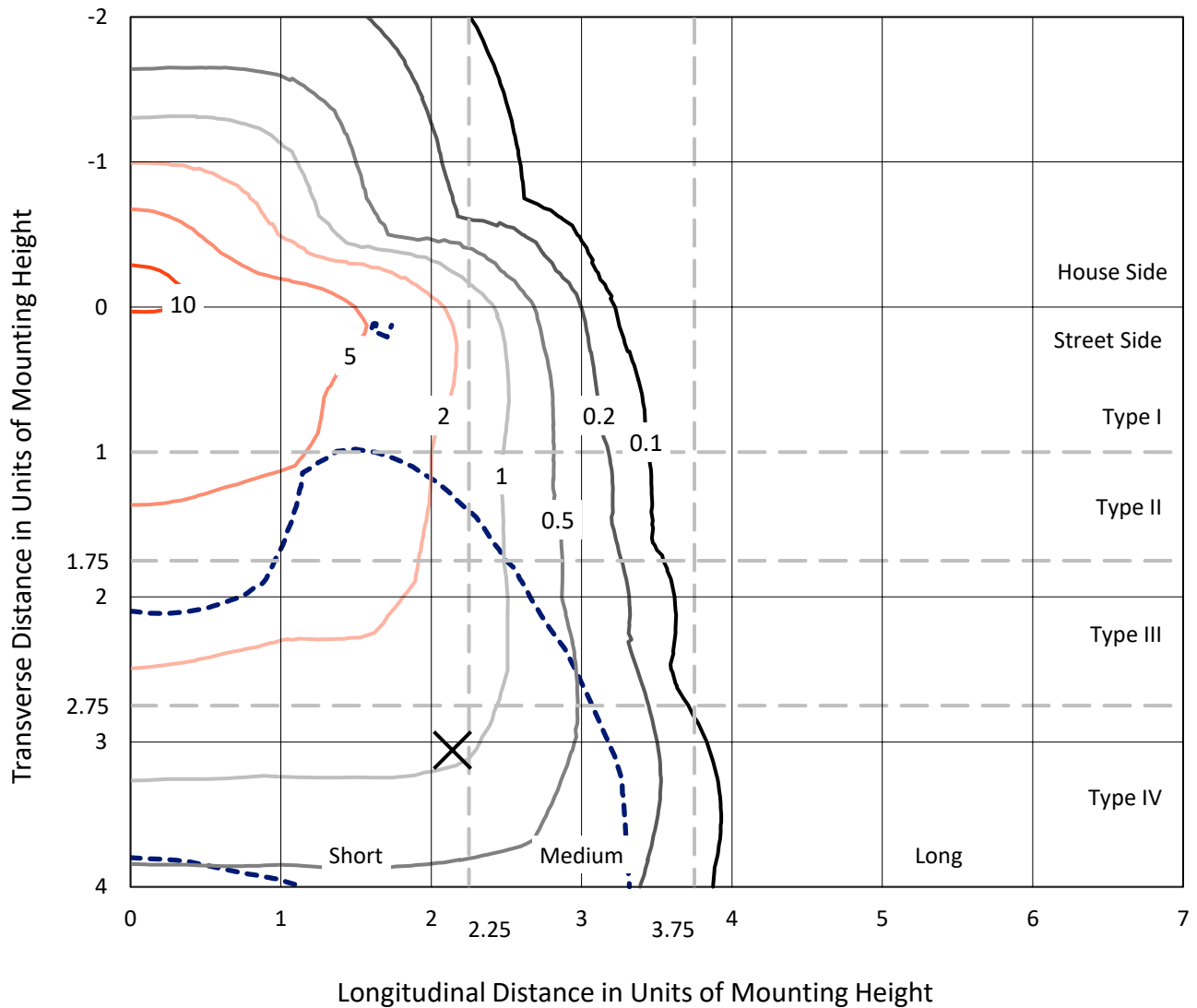
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

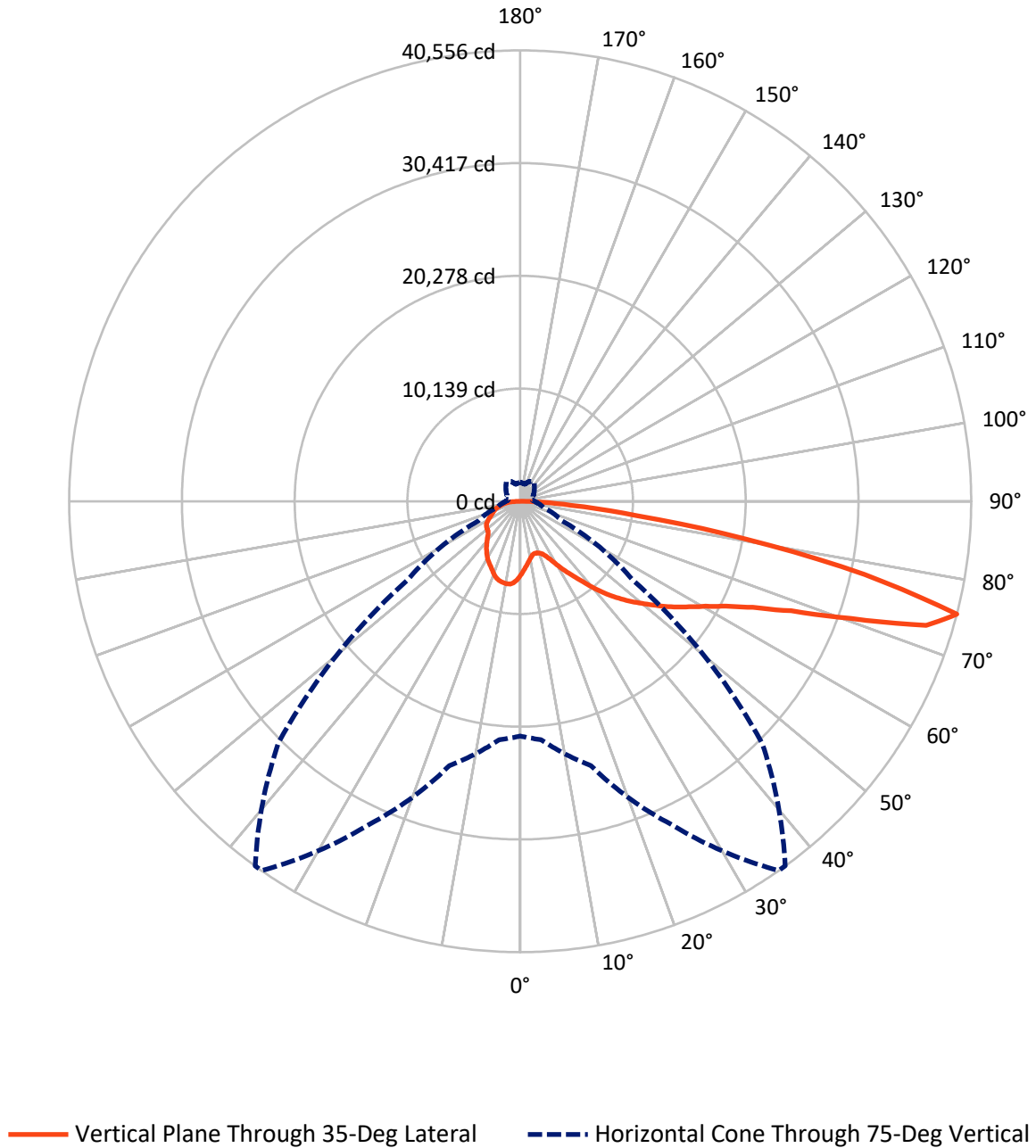
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	11841.2	0.0	11841.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37916.8	0.0	37916.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	49758.0	0.0	49758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	1.3
10°-20°	1810.8	3.6
20°-30°	3040.8	6.1
30°-40°	4725.8	9.5
40°-50°	7014.4	14.1
50°-60°	9683.8	19.5
60°-70°	11748.7	23.6
70°-80°	9709.4	19.5
80°-90°	1396.5	2.8
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°	49758.0	100.0
0°-180°	49758.0	100.0

Coefficient of Utilization



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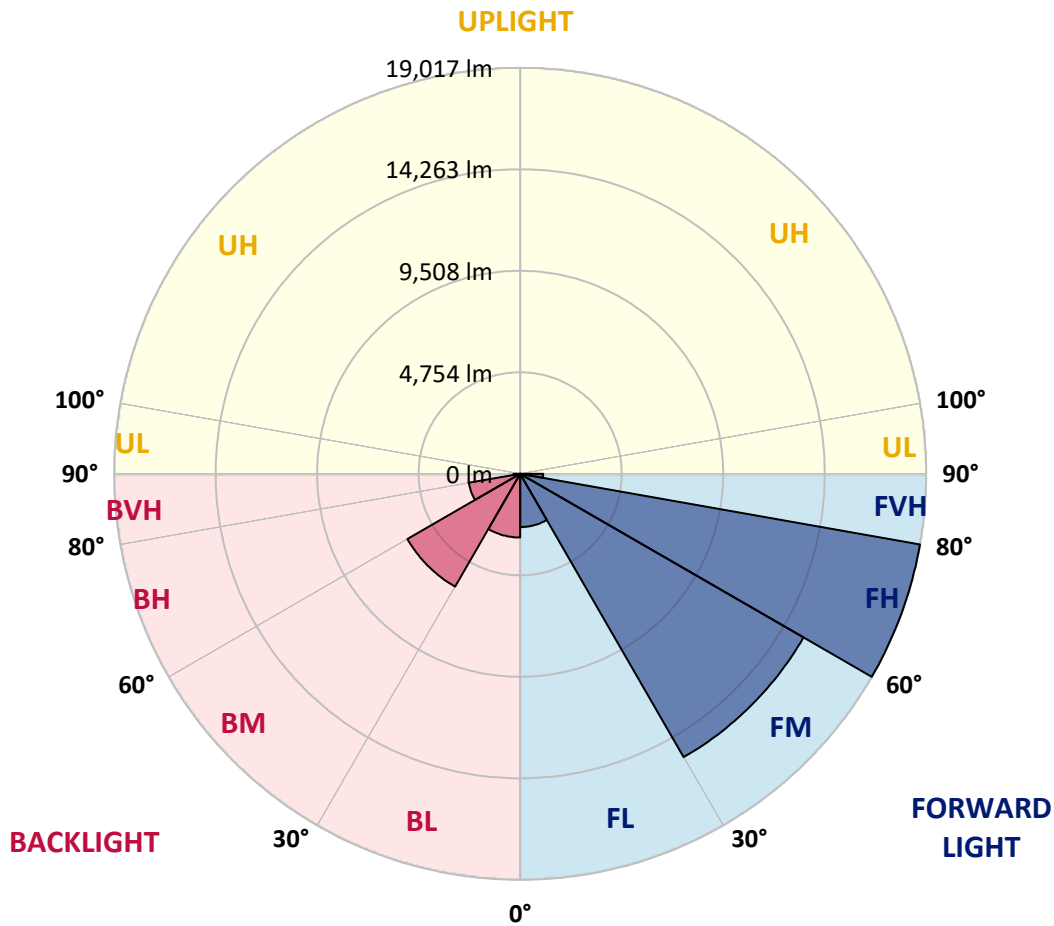
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.3	5.0			
FM (30°-60°)	15322.8	30.8			
FH (60°-80°)	19016.8	38.2			G5
FVH (80°-90°)	1082.0	2.2			G5
BL (0°-30°)	2984.1	6.0	B4/5000		
BM (30°-60°)	6101.3	12.3	B4/8500		
BH (60°-80°)	2441.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	314.5	0.6			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°	36°	45°	55°	65°	75°
0°	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6
2.5°	6114.1	6151.8	6167.9	6159.9	6200.2	6194.8	6251.3	6321.3	6418.1	6512.2
5°	5643.4	5683.7	5718.7	5751.0	5829.0	5853.2	5942.0	6076.5	6254.0	6434.2
7.5°	5204.9	5239.9	5293.7	5352.9	5484.7	5508.9	5656.8	5866.7	6114.1	6377.7
10°	4847.2	4882.2	4938.6	5005.9	5170.0	5199.6	5387.9	5667.6	5990.4	6323.9
12.5°	4693.9	4704.6	4736.9	4804.2	4946.7	4965.5	5172.7	5492.8	5869.3	6283.6
15°	4685.8	4707.3	4710.0	4745.0	4863.3	4871.4	5062.4	5379.8	5794.0	6275.5
17.5°	4766.5	4782.6	4758.4	4779.9	4879.5	4892.9	5043.6	5326.0	5769.8	6310.5
20°	4981.7	4995.1	4922.5	4892.9	4965.5	4976.3	5124.2	5361.0	5794.0	6383.1
22.5°	5439.0	5447.0	5269.5	5148.5	5153.8	5159.2	5288.3	5503.5	5888.2	6514.9
25°	6151.8	6146.4	5864.0	5629.9	5495.5	5465.9	5551.9	5734.9	6046.9	6689.8
27.5°	6985.7	6945.3	6662.9	6313.2	6020.0	5976.9	5958.1	6036.1	6272.8	6921.1
30°	7927.1	7889.5	7585.5	7128.2	6722.0	6652.1	6474.6	6434.2	6609.1	7235.8
32.5°	8960.0	8935.8	8572.7	8018.6	7475.2	7394.5	7095.9	6988.3	7125.5	7711.9
35°	9826.2	9804.7	9503.4	8933.1	8268.7	8169.2	7865.3	7744.2	7814.1	8322.5
37.5°	10608.9	10598.2	10340.0	9890.7	9204.8	9083.8	8742.2	8701.8	8688.4	9126.8
40°	11335.2	11308.3	11039.3	10802.6	10294.2	10183.9	9882.7	9847.7	9745.5	10116.7
42.5°	12139.5	12069.6	11679.5	11569.2	11432.1	11340.6	11160.4	11165.8	10939.8	11233.0
45°	12795.8	12755.5	12354.7	12290.1	12438.1	12400.4	12556.4	12596.8	12158.3	12403.1
47.5°	13500.6	13462.9	13124.0	13078.3	13479.1	13489.8	14041.2	14054.7	13347.3	13618.9
50°	14369.4	14315.6	13979.4	14035.9	14485.1	14525.4	15534.1	15442.7	14442.0	14853.6
52.5°	14942.4	14974.6	14902.0	14993.5	15606.8	15644.4	17002.8	16768.8	15526.1	16072.1
55°	15364.7	15429.2	15655.2	15865.0	16790.3	16828.0	18388.1	18030.4	16424.5	17201.9
57.5°	15908.0	15816.6	16238.9	16647.8	17914.7	18014.2	19735.8	19246.2	17220.7	18175.6
60°	16688.1	16623.5	16951.7	17556.9	19173.6	19332.3	21161.4	20341.0	17804.4	18947.6
62.5°	18269.8	18108.4	18159.5	18694.8	20760.6	20970.4	22770.0	21295.9	18094.9	19248.9
65°	20634.2	20357.1	20098.9	20470.1	22995.9	23203.0	24585.6	22046.4	17987.3	18665.2
67.5°	23611.9	23337.5	23020.1	23369.8	26288.3	26452.4	26826.3	22468.7	17140.0	16416.4
70°	26067.8	25965.6	26344.8	27783.9	31547.1	31552.5	29699.1	22119.0	14818.6	11639.2
72.5°	25742.3	25680.4	27679.0	32128.1	38175.0	38032.4	32418.6	19472.1	9982.2	5250.7
75°	21118.4	21519.2	24615.2	32050.1	40555.5	40536.7	30753.6	12378.9	4129.0	2176.1
77.5°	11324.5	11959.3	15980.7	23663.0	31660.1	32136.2	21621.4	4330.7	1772.6	1393.4
80°	3693.2	4247.3	6369.7	12048.0	20572.3	20483.5	9266.7	1700.0	1213.1	987.2
82.5°	1568.2	1632.8	2845.9	5689.1	10557.8	10393.8	2950.8	976.4	852.7	675.2
85°	613.3	685.9	1256.2	2630.7	4572.8	4473.3	1065.2	484.2	546.0	441.1
87.5°	201.7	244.8	449.2	901.1	1423.0	1371.8	260.9	166.8	236.7	201.7
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°
6630.6	0°	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6	6630.6
6649.4	2.5°	6687.1	6730.1	6781.2	6856.5	6921.1	6974.9	7031.4	7066.4	7079.8	7120.2
6660.2	5°	6735.5	6829.6	6956.1	7079.8	7200.8	7273.5	7338.0	7370.3	7399.9	7421.4
6689.8	7.5°	6816.2	6937.2	7136.3	7297.7	7399.9	7459.1	7502.1	7491.4	7502.1	7507.5
6722.0	10°	6886.1	7055.6	7292.3	7445.6	7523.6	7526.3	7515.6	7477.9	7459.1	7461.8
6770.5	12.5°	6969.5	7157.8	7413.3	7542.5	7564.0	7504.8	7459.1	7394.5	7370.3	7359.6
6843.1	15°	7082.5	7297.7	7545.2	7593.6	7539.8	7464.5	7386.5	7281.5	7227.7	7184.7
6966.8	17.5°	7219.7	7456.4	7647.4	7612.4	7496.7	7373.0	7246.6	7087.9	6977.6	6931.9
7136.3	20°	7410.7	7623.2	7725.4	7572.1	7397.2	7208.9	6993.7	6800.1	6697.8	6652.1
7351.5	22.5°	7642.0	7846.4	7800.7	7502.1	7254.6	6953.4	6684.4	6541.8	6490.7	6458.4
7628.5	25°	7919.0	8093.9	7854.5	7399.9	7020.6	6614.5	6407.3	6361.6	6337.4	6313.2
7967.5	27.5°	8279.5	8373.6	7894.8	7249.3	6654.8	6254.0	6178.7	6186.8	6178.7	6138.3
8438.2	30°	8755.6	8736.8	7932.5	7004.5	6235.2	5928.5	5933.9	5968.9	5974.3	5947.4
9094.5	32.5°	9382.4	9191.4	7951.3	6687.1	5834.4	5643.4	5648.8	5686.4	5713.3	5667.6
9952.6	35°	10140.9	9721.3	7921.7	6289.0	5525.0	5371.7	5331.4	5342.1	5350.2	5307.2
10993.6	37.5°	11025.9	10315.7	7789.9	5847.8	5269.5	5105.4	5019.3	4946.7	4903.7	4863.3
12171.8	40°	11996.9	10964.0	7547.8	5417.4	4984.4	4823.0	4693.9	4556.7	4411.4	4357.6
13419.9	42.5°	13013.7	11631.1	7254.6	5005.9	4656.2	4524.4	4387.2	4188.2	3970.3	3860.0
14716.4	45°	14068.1	12314.3	6966.8	4599.7	4320.0	4263.5	4104.8	3865.4	3628.7	3488.8
16015.6	47.5°	15101.1	12959.9	6544.5	4190.9	4005.3	4067.1	3943.4	3722.8	3459.2	3238.6
17304.1	50°	16088.3	13565.1	5853.2	3776.6	3749.7	4007.9	3889.6	3572.2	3270.9	2988.5
18568.3	52.5°	17067.4	14054.7	4968.2	3400.0	3612.5	3991.8	3819.7	3470.0	3101.4	2805.6
19757.3	55°	17898.6	14307.5	4115.5	3077.2	3413.5	3854.6	3736.3	3348.9	2862.0	2547.3
20572.3	57.5°	18372.0	14103.1	3405.4	2759.8	3139.1	3628.7	3593.7	3090.7	2576.9	2334.8
20731.0	60°	18167.5	13274.6	2824.4	2482.8	2878.2	3383.9	3346.2	2835.1	2359.0	2130.4
19881.0	62.5°	17040.5	11695.7	2364.4	2240.7	2641.5	3133.7	3098.8	2638.8	2192.3	1971.7
17624.2	65°	14770.2	9514.2	2006.7	2038.9	2402.1	2832.5	2883.6	2474.7	2060.5	1845.3
13635.1	67.5°	11265.3	6891.5	1726.9	1864.1	2168.1	2536.6	2684.5	2356.3	1950.2	1745.7
7889.5	70°	6420.8	3913.8	1490.2	1694.6	1960.9	2262.2	2531.2	2262.2	1831.8	1662.4
2956.2	72.5°	2434.4	1796.8	1288.5	1525.2	1761.9	2030.9	2361.7	2114.3	1694.6	1568.2
1527.9	75°	1299.2	1094.8	1084.0	1326.1	1533.2	1804.9	2149.2	1969.0	1592.4	1657.0
1057.1	77.5°	885.0	774.7	906.5	1135.1	1283.1	1554.8	1923.3	1748.4	1379.9	1374.5
731.7	80°	613.3	548.7	737.0	914.6	992.6	1307.3	1678.5	1501.0	1124.4	1049.1
451.9	82.5°	368.5	357.8	551.4	683.2	702.1	1008.7	1390.7	1258.9	919.9	801.6
269.0	85°	201.7	212.5	352.4	400.8	408.9	704.8	1089.4	973.7	707.4	594.5
96.8	87.5°	56.5	72.6	129.1	158.7	196.4	365.8	648.3	578.3	355.1	247.5
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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180°
6630.6
7117.5
7426.8
7515.6
7467.1
7354.2
7198.2
6934.5
6646.7
6463.8
6313.2
6146.4
5960.8
5689.1
5336.8
4890.2
4381.8
3873.4
3478.0
3214.4
2964.3
2773.3
2520.4
2302.5
2098.1
1936.7
1810.3
1713.5
1640.8
1546.7
1710.8
1266.9
1003.3
807.0
599.8
247.5
0.0

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