

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: P943842

Luminaire Tested: **GALN-SB8C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943842
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-SB8C-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60029 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

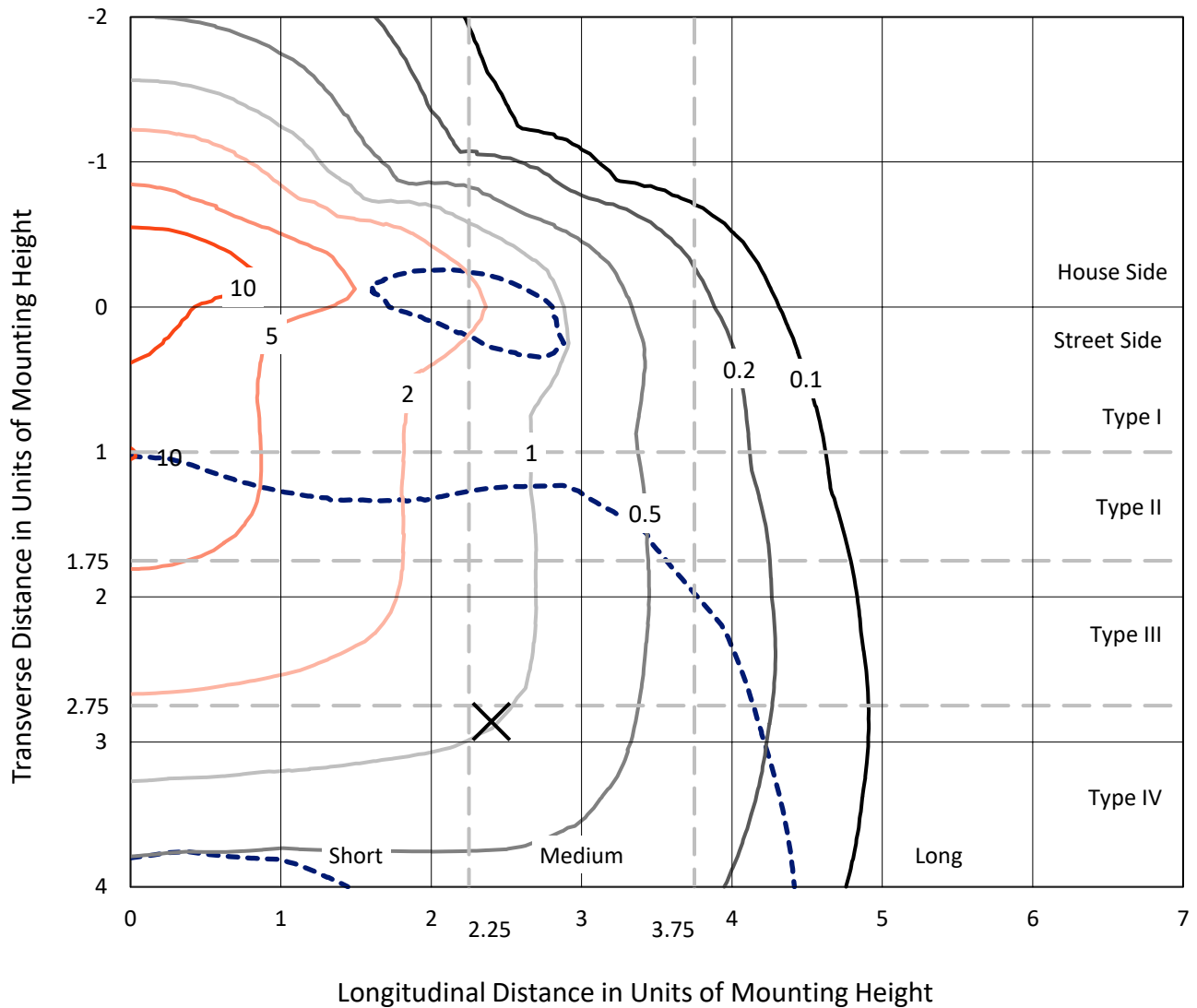
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

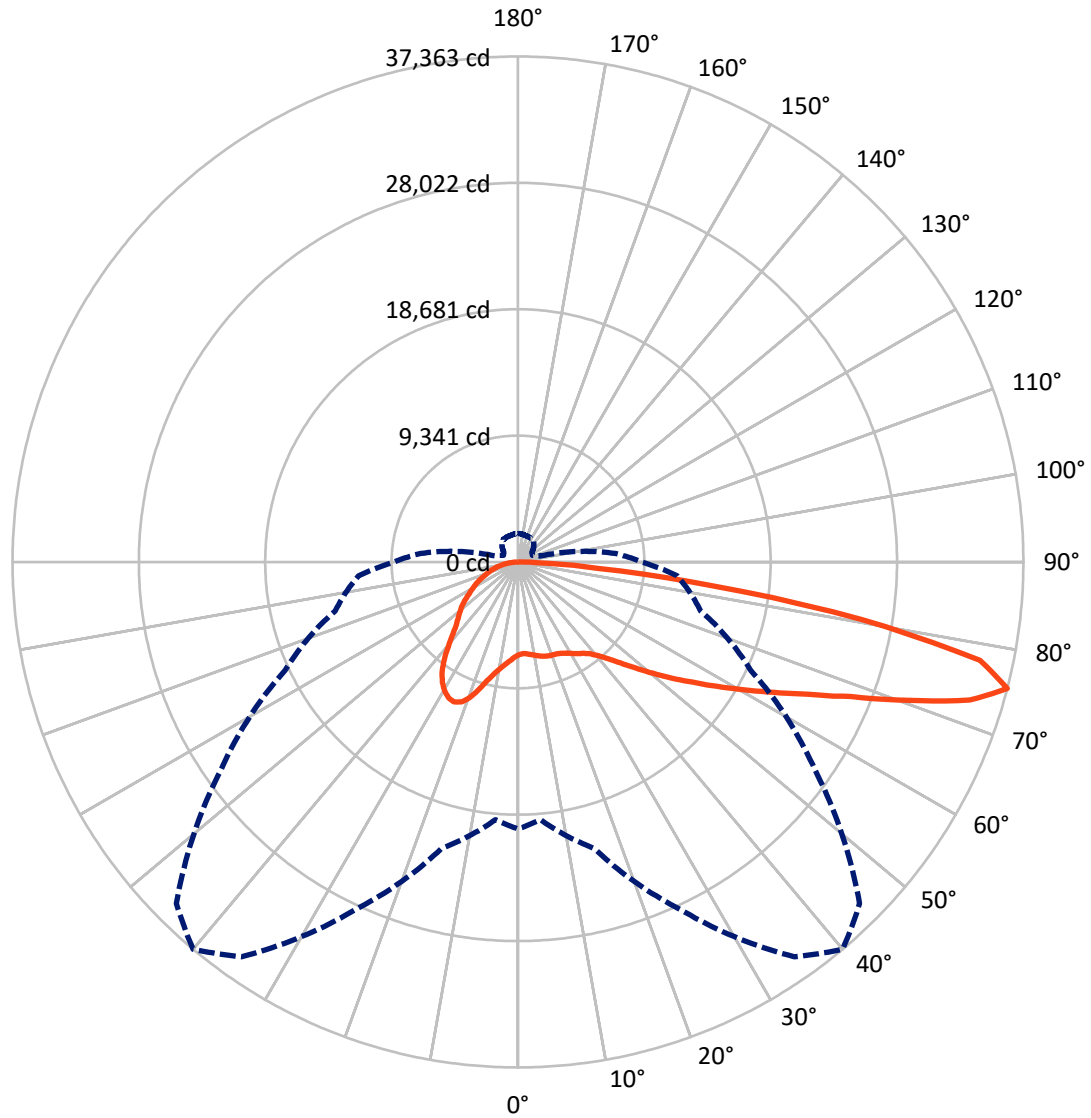
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	18599.0	0.0	18599.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	41430.0	0.0	41430.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	60029.0	0.0	60029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.2	1.1
10°-20°	2300.5	3.8
20°-30°	4200.6	7.0
30°-40°	5957.6	9.9
40°-50°	8044.5	13.4
50°-60°	10822.0	18.0
60°-70°	13735.6	22.9
70°-80°	12465.9	20.8
80°-90°	1817.1	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°	60029.0	100.0
0°-180°	60029.0	100.0

Coefficient of Utilization



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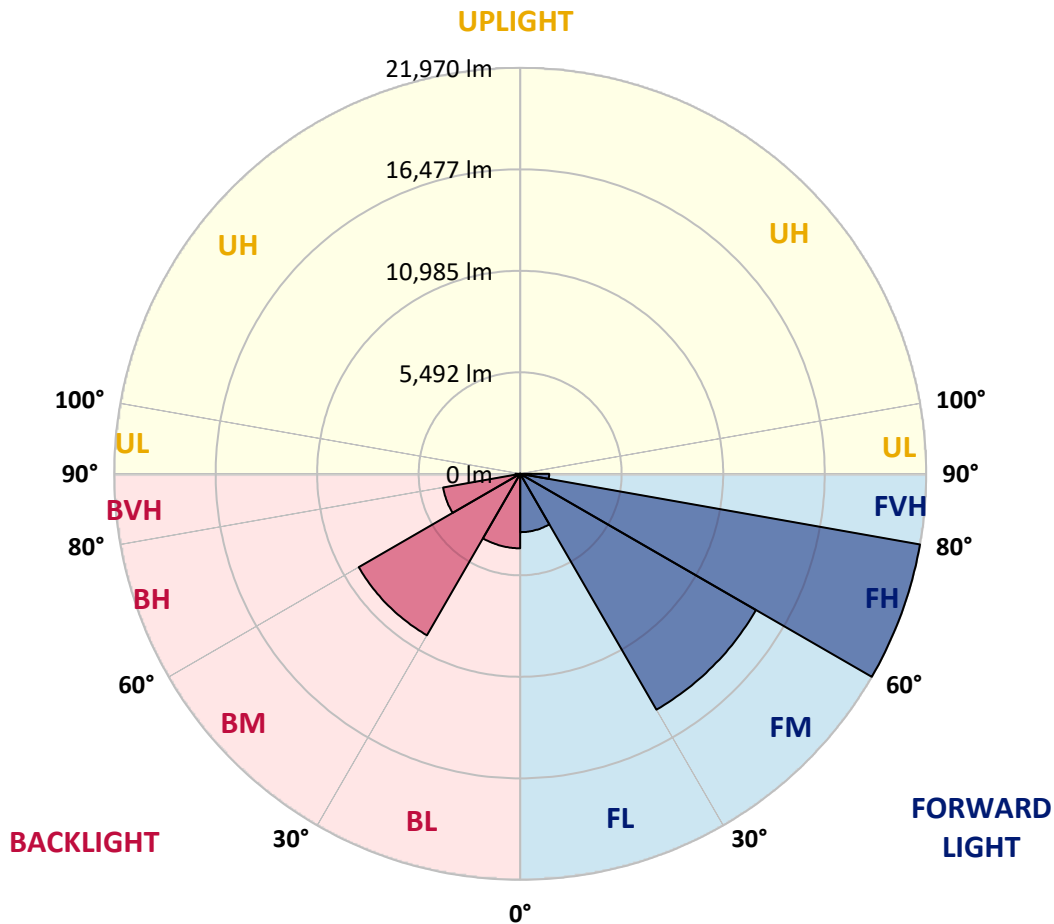
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.6	5.3			
FM (30°-60°)	14735.8	24.5			
FH (60°-80°)	21969.7	36.6			G5
FVH (80°-90°)	1567.0	2.6			G5
BL (0°-30°)	4028.7	6.7	B4/5000		
BM (30°-60°)	10088.3	16.8	B5		
BH (60°-80°)	4231.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	250.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4
2.5°	6759.3	6797.5	6788.0	6775.2	6775.2	6778.4	6775.2	6797.5	6819.8	6842.1
5°	6829.4	6867.6	6848.5	6832.6	6819.8	6816.6	6807.1	6803.9	6816.6	6845.3
7.5°	6966.3	7004.5	6975.8	6947.2	6921.7	6909.0	6896.2	6877.1	6867.6	6883.5
10°	7119.1	7157.3	7122.3	7071.3	7030.0	7014.0	7001.3	6982.2	6969.5	6979.0
12.5°	7271.9	7310.1	7262.4	7192.3	7138.2	7128.7	7112.7	7106.4	7103.2	7100.0
15°	7415.2	7447.0	7386.5	7303.8	7246.5	7230.5	7214.6	7224.2	7240.1	7259.2
17.5°	7526.6	7558.5	7469.3	7361.1	7307.0	7300.6	7291.0	7322.9	7367.4	7415.2
20°	7628.5	7660.4	7545.7	7399.3	7335.6	7335.6	7338.8	7405.7	7469.3	7539.4
22.5°	7771.8	7797.3	7657.2	7456.6	7364.3	7370.6	7396.1	7463.0	7542.6	7638.1
25°	7985.1	8004.2	7832.3	7564.8	7459.8	7478.9	7501.2	7533.0	7609.4	7720.9
27.5°	8329.0	8344.9	8118.8	7755.9	7596.7	7628.5	7660.4	7638.1	7673.1	7768.6
30°	8812.9	8822.5	8535.9	8055.2	7829.1	7845.0	7851.4	7759.1	7692.2	7768.6
32.5°	9386.0	9382.8	9042.2	8418.1	8093.4	8077.4	8023.3	7841.8	7685.8	7752.7
35°	10274.3	10239.3	9799.9	8927.5	8392.6	8293.9	8166.6	7934.2	7717.7	7736.8
37.5°	11745.2	11637.0	11028.9	9761.7	8838.4	8586.9	8399.0	8083.8	7787.7	7730.4
40°	13404.0	13267.1	12598.5	10904.7	9507.0	9102.6	8800.2	8297.1	7902.3	7759.1
42.5°	15371.7	15177.4	14457.9	12251.5	10353.9	9768.1	9312.8	8567.8	8071.1	7851.4
45°	17788.2	17530.3	16511.5	13770.2	11420.5	10640.5	10032.3	8978.5	8329.0	8029.7
47.5°	20230.2	20293.9	18845.3	15508.6	12700.4	11716.6	10933.4	9596.1	8704.7	8316.2
50°	22825.1	22869.6	21166.3	17434.8	14152.2	12932.8	11945.8	10287.0	9226.8	8723.8
52.5°	24850.0	24856.4	23274.0	19450.2	15664.6	14270.0	13037.9	11076.6	9831.8	9265.0
55°	26117.2	26101.3	24751.3	21357.3	17403.0	15674.1	14247.8	11974.5	10570.4	9901.8
57.5°	27037.3	26989.6	25770.1	22997.0	19256.0	17332.9	15616.8	12993.3	11442.8	10659.6
60°	27387.5	27358.9	26461.0	24413.8	21204.5	19166.8	17196.0	14133.1	12433.0	11554.2
62.5°	27521.3	27575.4	27139.2	25786.1	23289.9	21198.1	18931.2	15495.8	13547.3	12566.7
65°	27992.5	28091.2	28002.0	27581.8	25646.0	23576.5	21233.1	17116.4	14763.5	13652.4
67.5°	28925.3	29024.0	29062.2	29730.9	28524.2	26540.6	24105.0	19135.0	16186.7	14779.5
70°	28903.1	28874.4	29549.4	31440.6	32128.3	30644.6	27976.6	21618.4	17883.7	15715.5
72.5°	26308.2	26079.0	27674.1	31421.5	35127.5	34930.1	32704.6	24821.4	19348.3	15830.1
75°	19736.7	19125.4	21943.1	28317.2	35627.4	37362.6	35710.1	26808.1	19001.3	13986.7
77.5°	8440.4	7825.9	11146.7	20962.5	31886.3	34926.9	32952.9	23388.6	15167.9	9249.1
80°	2209.6	2206.4	3368.5	9503.8	21685.3	25792.4	22627.7	15104.2	8666.5	3304.8
82.5°	913.8	891.5	1238.5	3696.5	10595.9	14473.8	11812.1	6737.0	3129.7	894.7
85°	340.7	337.5	601.7	1276.7	3737.8	5969.7	4320.5	1722.5	780.0	436.2
87.5°	95.5	92.3	130.5	442.6	910.6	1381.8	738.7	283.4	219.7	171.9
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°
6864.4	0°	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4	6864.4
6877.1	2.5°	6886.7	6902.6	6931.3	6953.5	6982.2	7014.0	7058.6	7087.3	7115.9	7135.0
6893.1	5°	6915.3	6950.4	7023.6	7096.8	7182.8	7262.4	7354.7	7421.6	7475.7	7491.6
6950.4	7.5°	6979.0	7036.3	7160.5	7284.7	7421.6	7552.1	7685.8	7800.5	7892.8	7927.8
7052.2	10°	7090.5	7166.9	7342.0	7517.1	7698.6	7899.1	8071.1	8236.6	8367.2	8421.3
7173.2	12.5°	7230.5	7326.1	7555.3	7797.3	8048.8	8325.8	8548.7	8752.4	8914.8	8988.0
7342.0	15°	7412.0	7536.2	7829.1	8153.9	8523.2	8908.4	9191.8	9417.8	9599.3	9688.5
7517.1	17.5°	7609.4	7775.0	8144.3	8634.6	9163.1	9669.4	10000.5	10166.1	10353.9	10439.9
7679.5	20°	7800.5	8004.2	8532.7	9245.9	9949.6	10487.6	10755.1	10799.6	10812.4	10821.9
7832.3	22.5°	7997.8	8271.7	9019.9	10016.4	10771.0	11143.5	11181.7	10990.7	10723.2	10599.1
7981.9	25°	8214.4	8577.3	9656.6	10866.5	11477.8	11522.4	11229.5	10764.6	10258.4	10026.0
8102.9	27.5°	8424.5	8930.7	10420.8	11678.4	11987.2	11595.6	10965.2	10306.1	9694.8	9449.7
8188.9	30°	8634.6	9335.1	11264.5	12388.4	12219.6	11414.1	10548.1	9812.6	9198.2	8940.3
8265.3	32.5°	8847.9	9806.3	12235.6	12901.0	12178.3	11028.9	10029.2	9258.7	8717.4	8446.8
8332.2	35°	9089.9	10385.7	13155.7	13181.2	11901.3	10462.2	9344.6	8596.4	8125.2	7908.7
8411.8	37.5°	9405.1	11121.2	13967.6	13251.2	11417.3	9631.2	8494.5	7813.2	7424.8	7326.1
8529.6	40°	9796.7	12006.3	14588.4	13139.8	10700.9	8621.9	7564.8	7020.4	6800.7	6823.0
8688.7	42.5°	10306.1	12996.5	15024.6	12853.2	9704.4	7580.8	6749.8	6507.8	6612.9	6702.0
8927.5	45°	10968.4	14024.9	15295.3	12366.1	8577.3	6698.8	6269.0	6326.3	6405.9	6415.5
9312.8	47.5°	11815.3	15066.0	15473.5	11630.6	7427.9	6078.0	5963.4	5976.1	5960.2	5893.3
9889.1	50°	12872.3	16078.5	15632.7	10656.4	6450.5	5689.6	5536.7	5492.2	5272.5	5056.0
10656.4	52.5°	14075.8	17008.2	15699.6	9446.5	5689.6	5364.8	5116.5	4836.3	4425.6	4358.7
11621.1	55°	15413.1	17867.8	15527.7	7959.6	5049.6	4947.7	4572.0	4234.5	4190.0	4132.6
12891.4	57.5°	17011.3	18794.3	15177.4	6300.9	4393.7	4460.6	4094.4	4132.6	4053.1	3963.9
14524.8	60°	18759.3	19752.7	14563.0	4788.5	3715.6	3852.5	3970.3	3967.1	3944.8	3871.6
16247.2	62.5°	20332.1	20383.1	13353.1	3667.8	3120.2	3381.3	3702.8	3699.6	3680.5	3639.1
18046.1	65°	21268.2	20287.5	11334.5	2887.8	2629.9	2992.8	3339.9	3365.3	3368.5	3365.3
19399.2	67.5°	21102.6	19170.0	8564.6	2298.7	2225.5	2598.0	2980.1	3015.1	3040.6	3047.0
19571.2	70°	19230.5	16715.3	5584.5	1833.9	1865.7	2251.0	2639.4	2674.4	2696.7	2722.2
16982.7	72.5°	14989.6	12289.7	3196.6	1483.7	1550.5	1951.7	2301.9	2343.3	2356.1	2403.8
11818.5	75°	9134.5	7227.4	1725.7	1168.5	1273.5	1668.3	1967.6	2015.4	2037.7	2095.0
5804.2	77.5°	4342.8	3129.7	983.8	910.6	1025.2	1362.7	1662.0	1716.1	1655.6	1687.4
1601.5	80°	1467.8	1162.1	620.9	694.1	783.2	1063.4	1330.9	1385.0	1257.6	1251.3
531.7	82.5°	512.6	471.2	394.8	461.7	506.2	760.9	1006.1	1076.1	936.1	932.9
238.8	85°	200.6	191.0	219.7	251.5	302.5	468.0	662.2	697.3	576.3	464.8
70.0	87.5°	41.4	44.6	54.1	57.3	92.3	162.4	238.8	292.9	232.4	197.4
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°
6864.4
7122.3
7498.0
7931.0
8424.5
8988.0
9682.1
10436.7
10847.4
10634.1
10061.0
9478.3
8968.9
8481.8
7956.5
7396.1
6899.4
6784.8
6479.1
5944.3
5084.6
4381.0
4142.2
3948.0
3846.1
3623.2
3365.3
3053.3
2734.9
2422.9
2101.3
1662.0
1238.5
888.3
458.5
181.5
0.0

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