

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: P955966

Luminaire Tested: **GALN-SB8D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81787 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

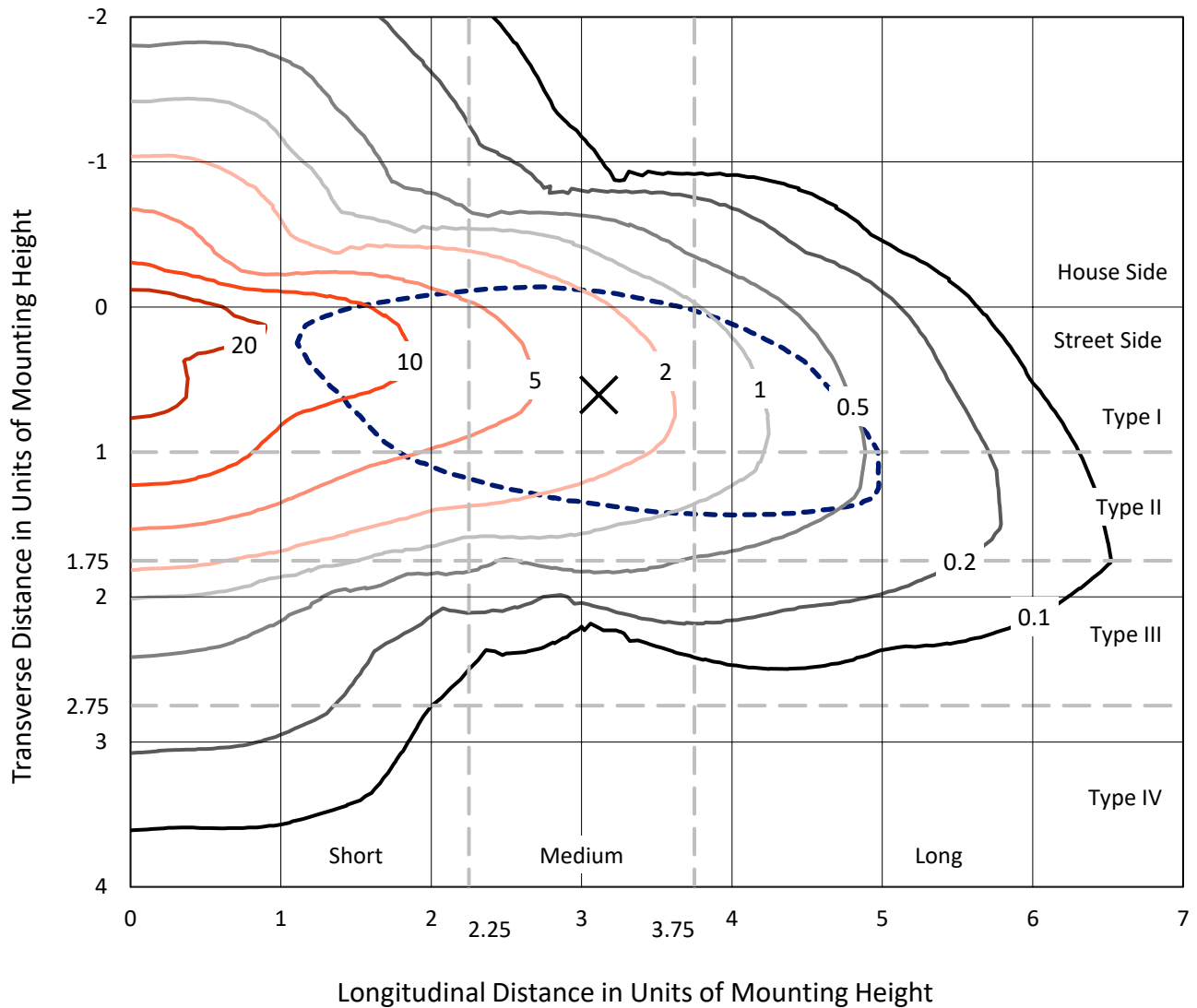
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

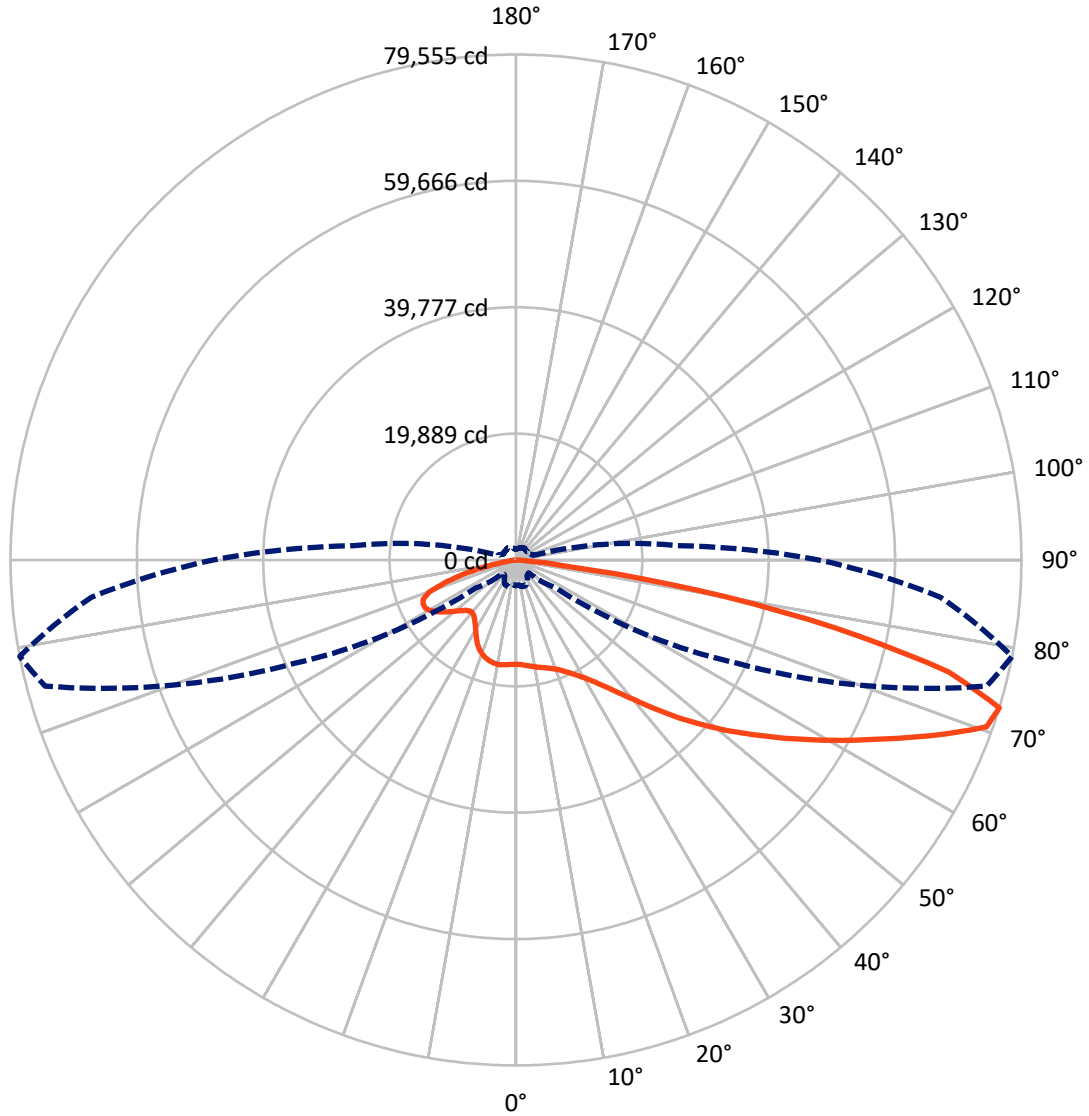
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17997.6	0.0	17997.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	63789.4	0.0	63789.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	81787.0	0.0	81787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1490.3	1.8
10°-20°	3896.3	4.8
20°-30°	6287.1	7.7
30°-40°	9436.0	11.5
40°-50°	13385.5	16.4
50°-60°	16904.1	20.7
60°-70°	17168.5	21.0
70°-80°	11701.1	14.3
80°-90°	1518.1	1.9
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°	81787.0	100.0
0°-180°	81787.0	100.0

Coefficient of Utilization

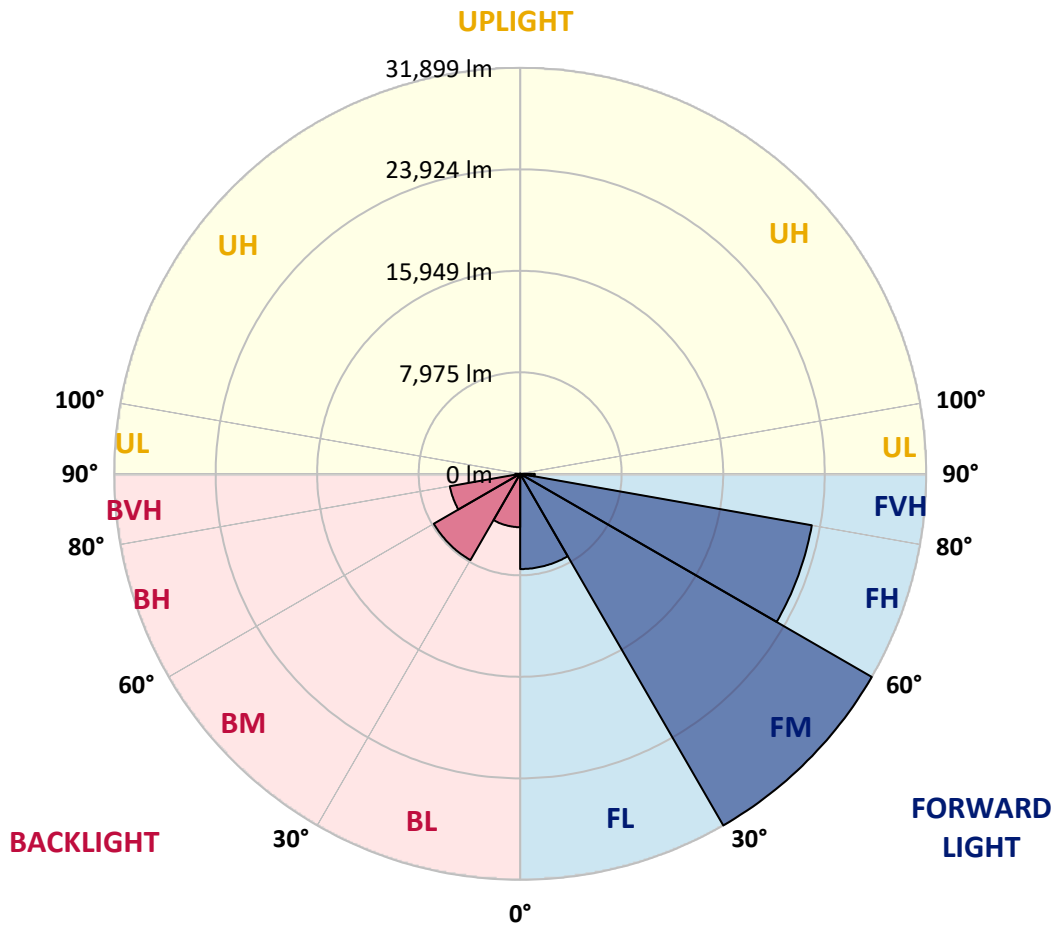


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7481.5	9.1			
FM (30°-60°)	31898.6	39.0			
FH (60°-80°)	23265.6	28.4			G5
FVH (80°-90°)	1143.6	1.4			G5
BL (0°-30°)	4192.2	5.1	B4/5000		
BM (30°-60°)	7827.1	9.6	B4/8500		
BH (60°-80°)	5603.9	6.9	B5		G5
BVH (80°-90°)	374.5	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0
2.5°	16426.6	16348.7	16396.3	16379.0	16400.7	16426.6	16435.3	16448.2	16491.5	16487.2
5°	16392.0	16314.1	16379.0	16357.4	16413.6	16474.2	16526.1	16573.7	16642.9	16673.2
7.5°	16318.5	16266.5	16331.4	16396.3	16500.2	16591.0	16664.6	16772.7	16872.2	16889.5
10°	15890.2	15851.2	16002.6	16171.4	16456.9	16703.5	16863.6	16989.0	17097.2	17114.5
12.5°	15444.6	15397.0	15565.7	15795.0	16257.9	16703.5	17040.9	17205.3	17300.5	17356.7
15°	15371.0	15332.1	15427.3	15626.3	16011.3	16586.7	17162.1	17464.9	17547.1	17612.0
17.5°	15725.8	15652.2	15691.2	15760.4	15985.3	16478.5	17257.2	17759.1	17884.5	17953.8
20°	16547.7	16443.9	16383.4	16244.9	16206.0	16495.8	17248.6	18113.8	18278.2	18364.8
22.5°	17642.3	17573.1	17443.3	17092.9	16712.1	16707.8	17413.0	18568.1	18875.2	18957.4
25°	18966.1	18862.3	18697.9	18222.0	17490.9	17127.5	17689.9	19147.8	19662.6	19684.3
27.5°	20488.9	20333.2	20108.2	19480.9	18494.5	17785.0	18113.8	19814.0	20566.8	20558.1
30°	22093.9	21938.2	21700.3	20938.9	19697.2	18671.9	18702.2	20532.2	21639.7	21592.1
32.5°	23266.4	23149.5	23102.0	22513.6	21081.6	19718.9	19377.1	21328.2	22963.5	22920.3
35°	24166.2	24014.8	24071.0	23772.5	22591.5	20891.3	20203.4	22275.6	24572.9	24568.5
37.5°	25057.4	24923.3	24970.9	24771.9	23988.8	22379.5	21211.4	23435.1	26567.2	26662.4
40°	25870.7	25728.0	25918.3	25732.3	25074.7	23962.9	22357.8	24745.9	28877.4	29059.1
42.5°	26359.6	26247.1	26562.9	26567.2	26017.8	25299.7	23616.8	26190.9	31551.0	31957.7
45°	26528.3	26489.4	26965.3	27064.8	26852.8	26074.1	24750.2	27765.6	34432.3	35159.1
47.5°	26346.6	26273.1	26930.7	27298.4	27467.1	26437.5	25689.0	29470.1	37374.1	38438.4
50°	25429.5	25286.7	26264.4	27038.8	27640.1	26675.4	26636.5	31438.6	40718.3	41882.0
52.5°	23781.2	23673.0	24784.9	26130.3	27259.4	26792.2	27700.7	33588.7	43893.7	45399.2
55°	21674.3	21531.5	22755.9	24512.3	26312.0	26753.3	28765.0	35994.1	47640.2	49167.4
57.5°	18334.5	18048.9	19597.7	21674.3	24767.5	26705.7	29872.5	38386.5	51447.3	53277.3
60°	13463.2	13039.2	14938.4	17400.0	21747.9	26242.8	31243.9	41068.7	56015.8	57664.0
62.5°	7839.1	7592.5	8834.1	11131.3	16392.0	23517.3	32013.9	44187.9	60506.4	62236.8
65°	6087.0	6017.8	6125.9	6303.3	9124.0	17607.7	29638.9	47229.2	66217.0	67428.3
67.5°	5567.8	5515.9	5563.5	5230.4	4629.0	9807.5	23448.1	47999.3	72334.2	73069.7
70°	4949.2	4888.6	5044.4	4758.8	3642.7	4460.3	15150.4	45204.6	77201.2	78581.3
72.5°	4032.0	3962.8	4326.2	4196.4	3067.3	2864.0	7609.8	38563.8	76690.7	79554.7
75°	3097.6	3058.6	3491.3	3599.4	2500.5	2254.0	3651.3	28665.5	67488.9	70374.4
77.5°	2405.4	2375.1	2595.7	2989.4	2016.0	1747.8	2245.3	18183.1	50858.9	51365.1
80°	1804.0	1717.5	1920.8	2314.5	1570.4	1276.2	1522.8	10603.5	32148.1	29141.3
82.5°	1129.1	1085.9	1254.6	1544.5	1107.5	878.2	990.7	5857.7	12883.4	7588.2
85°	644.6	627.3	683.5	882.5	601.3	506.2	566.7	2587.1	2353.5	1618.0
87.5°	259.6	250.9	311.5	393.7	220.6	186.0	199.0	623.0	519.1	480.2
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°
16418.0	0°	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0	16418.0
16482.9	2.5°	16465.6	16465.6	16405.0	16309.8	16201.7	16132.4	16020.0	15989.7	15872.9	15838.3
16629.9	5°	16664.6	16629.9	16443.9	16175.7	15808.0	15470.5	15098.5	14864.9	14536.1	14419.3
16919.8	7.5°	16915.5	16820.3	16500.2	15911.8	15141.7	14384.6	13597.3	13000.3	12429.2	12225.9
17157.7	10°	17144.8	17010.7	16465.6	15435.9	14103.4	12792.6	11538.0	10659.8	9993.5	9721.0
17421.6	12.5°	17374.1	17127.5	16236.3	14644.2	12628.2	10850.1	9513.3	8829.8	8418.8	8090.0
17638.0	15°	17590.4	17244.3	15881.5	13584.3	11010.2	9206.2	8219.8	7674.7	7345.9	7129.6
17953.8	17.5°	17841.3	17343.8	15349.4	12238.8	9470.1	8068.4	7263.7	6934.9	6870.0	6844.1
18386.4	20°	18191.7	17434.6	14648.5	10733.3	8336.6	7159.9	6744.6	6714.3	6709.9	6697.0
18905.5	22.5°	18568.1	17542.8	13722.7	9366.2	7371.9	6593.1	6519.6	6459.0	6420.1	6415.8
19532.8	25°	19013.7	17577.4	12563.3	8245.8	6549.9	6324.9	6238.4	6147.5	6121.6	6121.6
20246.7	27.5°	19446.3	17460.6	11213.5	7272.4	6087.0	6078.3	5965.8	5935.6	5931.2	5944.2
21060.0	30°	19878.9	17239.9	9872.4	6372.5	5818.8	5818.8	5779.8	5801.4	5818.8	5862.0
22176.1	32.5°	20463.0	17006.3	8751.9	5706.3	5585.1	5541.9	5580.8	5624.1	5641.4	5697.6
23642.7	35°	21319.6	16841.9	7860.7	5342.9	5342.9	5286.6	5308.3	5299.6	5260.7	5234.7
25416.5	37.5°	22453.0	16833.3	7125.3	5174.1	5139.5	5130.9	5135.2	5079.0	4927.6	4745.9
27562.3	40°	23815.8	17066.9	6558.5	5057.3	5031.4	5083.3	5057.3	4905.9	4490.6	4174.8
30201.3	42.5°	25645.8	17733.1	6195.1	4914.6	4992.4	5057.3	4953.5	4430.0	4148.8	3936.9
33208.0	45°	27800.2	18814.7	6009.1	4763.2	4918.9	4996.8	4494.9	4265.6	4040.7	3785.4
36487.2	47.5°	30240.2	20177.4	5965.8	4620.4	4754.5	4802.1	4300.3	4196.4	3941.2	3664.3
39783.8	50°	32896.5	21791.1	6082.6	4451.7	4516.6	4352.2	4235.4	4140.2	3876.3	3603.7
43162.6	52.5°	35643.6	23569.2	6316.3	4222.4	4278.6	4096.9	4209.4	4127.2	3837.3	3469.6
46653.8	55°	38343.2	25360.2	6541.2	3954.2	4036.4	3867.6	4135.9	4075.3	3660.0	3244.7
50378.7	57.5°	41086.0	27142.6	6761.9	3716.2	3802.7	3647.0	4019.0	3936.9	3461.0	3037.0
54445.3	60°	43937.0	28873.1	6865.7	3486.9	3547.5	3443.7	3841.7	3698.9	3236.0	2825.0
58442.8	62.5°	46606.2	30313.7	6697.0	3257.6	3296.6	3253.3	3608.1	3417.7	3011.0	2587.1
62608.9	65°	49284.2	31170.3	6177.8	3032.7	3041.3	3019.7	3279.3	3114.9	2747.1	2379.4
66255.9	67.5°	51711.2	31650.5	5351.5	2790.4	2768.8	2760.1	2972.1	2786.1	2491.9	2171.8
69029.0	70°	52226.0	30430.6	4088.3	2504.9	2504.9	2483.2	2634.7	2444.3	2210.7	1951.1
67043.3	72.5°	47700.8	25598.2	2902.9	2180.4	2215.0	2171.8	2297.2	2137.1	1925.2	1752.1
57780.8	75°	38464.3	18771.4	2111.2	1847.3	1907.9	1834.3	1951.1	1838.6	1656.9	1652.6
39818.4	77.5°	26428.8	11607.2	1531.5	1522.8	1566.1	1470.9	1605.0	1544.5	1380.1	1306.5
17330.8	80°	11278.4	4629.0	1116.2	1176.7	1176.7	1090.2	1245.9	1263.3	1120.5	1085.9
3344.2	82.5°	2245.3	1315.2	783.0	809.0	761.4	735.5	882.5	977.7	1349.8	1501.2
1008.0	85°	674.9	484.5	471.6	441.3	389.4	393.7	519.1	982.0	1211.3	692.2
333.1	87.5°	186.0	121.1	125.5	99.5	82.2	108.2	177.4	744.1	406.7	173.0
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>
16418.0
15894.5
14505.8
12251.8
9781.6
8198.2
7168.5
6861.4
6740.2
6463.4
6147.5
5978.8
5892.3
5745.2
5295.3
4750.2
4166.1
3928.2
3768.1
3642.7
3573.4
3443.7
3223.0
3028.3
2812.0
2582.7
2353.5
2145.8
1942.5
1700.2
1488.2
1224.3
1085.9
1505.5
597.0
147.1
0.0

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