

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: P957186

Luminaire Tested: **GALN-SB9C-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63769 lumens
Efficiency: N/A
Efficacy: 141.8 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

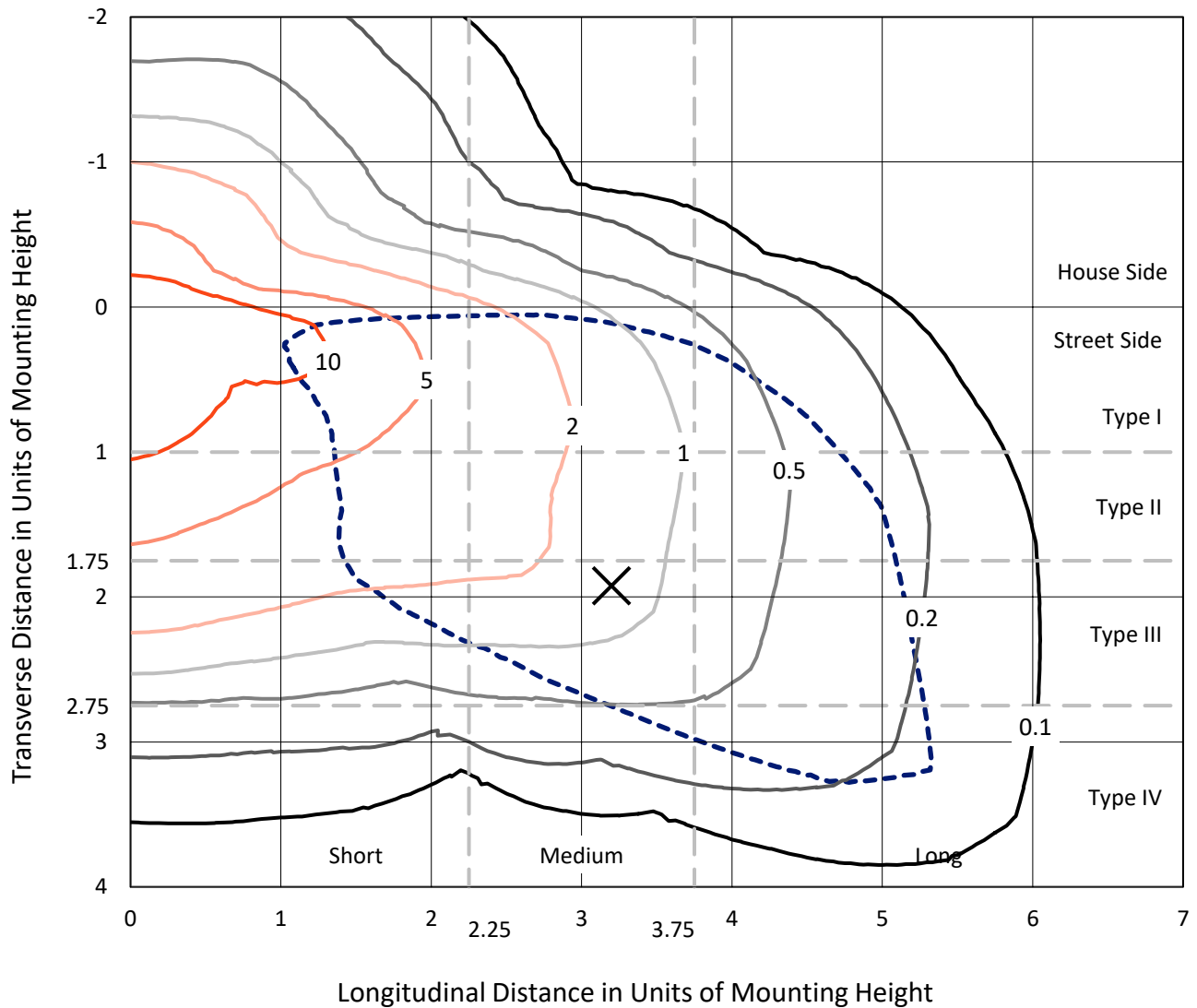
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

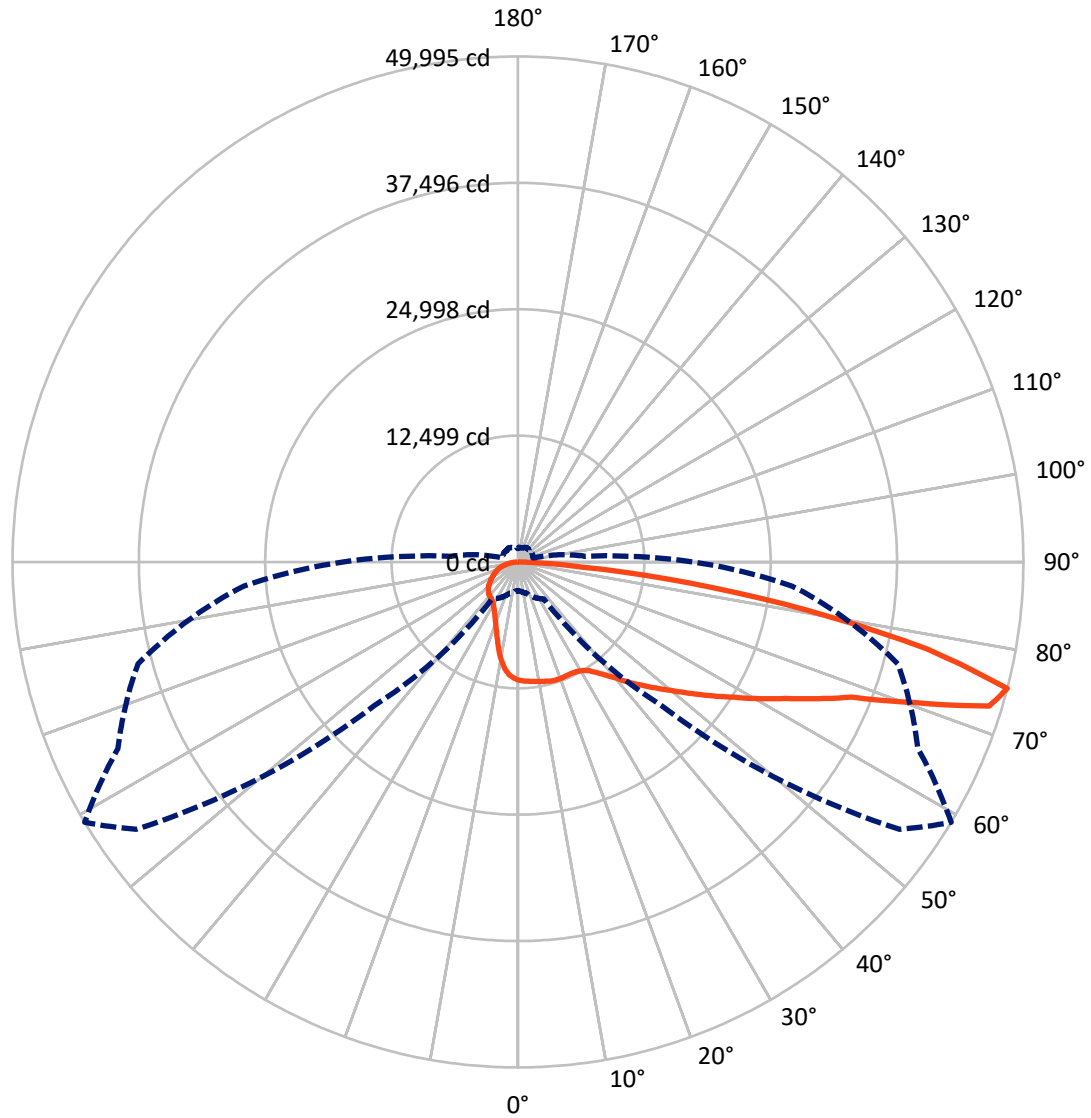
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11960.3	0.0	11960.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	51808.7	0.0	51808.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	63769.0	0.0	63769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.5	1.6
10°-20°	2682.6	4.2
20°-30°	4074.7	6.4
30°-40°	6056.9	9.5
40°-50°	9007.7	14.1
50°-60°	12226.9	19.2
60°-70°	14927.0	23.4
70°-80°	11714.5	18.4
80°-90°	2029.2	3.2
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°	63769.0	100.0
0°-180°	63769.0	100.0

Coefficient of Utilization



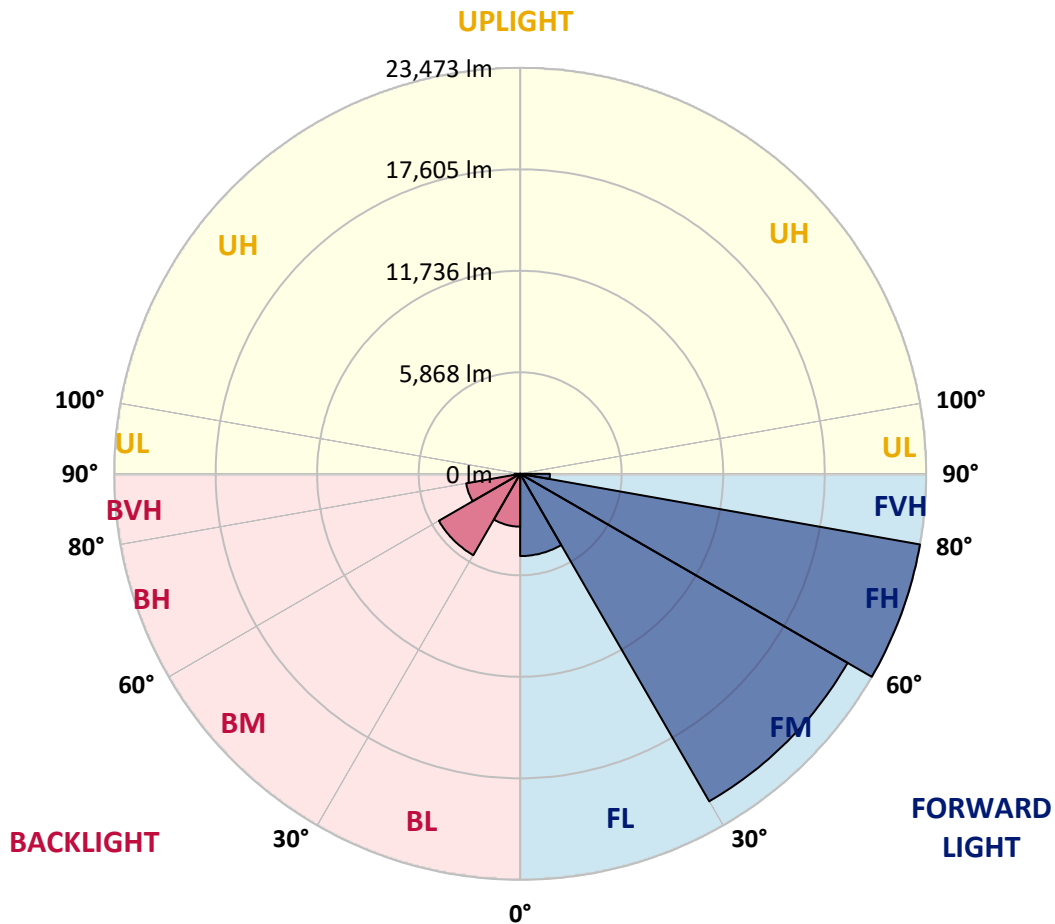
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4754.7	7.5			
FM (30°-60°)	21862.7	34.3			
FH (60°-80°)	23472.7	36.8			G5
FVH (80°-90°)	1718.6	2.7			G5
BL (0°-30°)	3052.1	4.8	B4/5000		
BM (30°-60°)	5428.8	8.5	B4/8500		
BH (60°-80°)	3168.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	310.6	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7
2.5°	11804.1	11763.0	11804.1	11787.0	11780.1	11766.4	11769.8	11793.8	11780.1	11797.3
5°	11725.2	11701.2	11742.4	11732.1	11776.7	11783.6	11828.2	11855.6	11872.7	11876.2
7.5°	11594.9	11570.9	11629.2	11677.2	11773.3	11800.7	11893.3	11937.9	11961.9	12003.1
10°	11118.1	11107.8	11251.8	11433.7	11660.1	11800.7	11941.4	12016.8	12054.6	12164.3
12.5°	10274.2	10287.9	10476.6	10826.5	11279.3	11732.1	11996.2	12106.0	12164.3	12301.6
15°	9468.0	9464.6	9670.4	10044.3	10679.0	11430.2	12023.7	12212.4	12311.8	12514.2
17.5°	9001.5	8987.8	9131.8	9416.6	10006.6	10967.1	11955.1	12270.7	12483.4	12737.2
20°	8915.7	8888.3	8963.7	9104.4	9522.9	10459.4	11776.7	12270.7	12620.6	12949.9
22.5°	9227.9	9183.3	9152.4	9135.3	9320.5	10040.9	11574.3	12229.5	12823.0	13255.2
25°	9855.7	9787.0	9629.2	9474.9	9420.0	9852.2	11395.9	12219.2	13124.9	13666.9
27.5°	10871.1	10785.3	10466.3	10095.8	9763.0	9948.3	11317.0	12281.0	13457.6	14102.5
30°	12130.0	12037.4	11636.0	11066.6	10469.7	10305.0	11416.5	12462.8	13883.0	14682.3
32.5°	13258.6	13155.7	12812.7	12232.9	11426.8	10922.5	11732.1	12809.3	14551.9	15488.4
35°	14260.3	14140.3	13831.5	13296.4	12600.0	11790.4	12301.6	13423.3	15502.2	16798.9
37.5°	15241.4	15100.8	14764.6	14198.6	13711.5	12946.5	13087.1	14212.3	16764.6	18390.6
40°	16339.2	16136.8	15728.6	15169.4	14696.0	14301.5	14119.7	15179.7	18047.5	20167.6
42.5°	17402.6	17210.5	16723.4	16246.6	15653.1	15539.9	15316.9	16311.7	19450.6	22119.5
45°	18548.4	18318.5	17728.5	17124.8	16750.8	16363.2	16476.4	17443.8	20826.2	24109.1
47.5°	19622.1	19364.8	18668.4	17996.1	17790.3	17056.1	17539.8	18689.0	22256.7	26126.2
50°	20201.9	19948.0	19368.3	18761.1	18599.8	17910.3	18692.5	20057.8	23755.8	28136.5
52.5°	20685.5	20411.1	19653.0	19316.8	19268.8	18840.0	20112.7	21622.1	25254.9	29913.4
55°	21200.1	20894.8	19927.4	19625.5	19845.1	19882.8	21797.0	23395.6	26839.8	31645.8
57.5°	21793.6	21405.9	20191.6	19886.3	20407.7	21104.1	23731.8	25234.3	28397.2	33251.2
60°	22352.7	21961.7	20699.3	20301.3	21014.9	22520.8	25951.3	27460.7	30160.4	34681.7
62.5°	22462.5	22140.1	21104.1	21100.6	21838.2	24174.3	28579.0	29707.6	31700.7	36095.1
65°	20562.1	20359.7	19745.6	21069.8	23018.2	26555.0	31505.2	32582.3	33659.5	37330.0
67.5°	15649.7	15677.1	15632.5	18188.2	22064.6	29975.2	35741.7	35659.4	36077.9	38715.9
70°	7155.9	7317.1	8366.8	12555.4	17677.1	30369.7	42746.7	41679.8	39113.9	40510.1
72.5°	3866.1	3989.6	4418.4	6082.2	10627.5	27001.0	47981.6	48739.7	43151.5	41717.6
75°	2837.0	2905.6	3204.0	3866.1	4463.0	20068.1	46105.1	49995.2	43655.8	38901.2
77.5°	2123.4	2154.3	2397.9	3063.4	2284.7	10579.5	36839.5	41405.4	37371.2	31961.4
80°	1540.3	1574.6	1756.4	2298.4	1602.0	3869.5	25296.1	29062.7	25594.5	20373.4
82.5°	1063.4	1077.2	1156.1	1564.3	1118.3	1502.5	14353.0	17042.4	14287.8	7149.0
85°	641.5	658.6	692.9	912.5	634.6	713.5	6195.4	6408.1	4270.9	1708.4
87.5°	264.1	281.3	308.7	384.2	250.4	199.0	1022.3	1283.0	799.3	500.8
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°
11704.7	0°	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7	11704.7
11739.0	2.5°	11721.8	11697.8	11632.6	11543.4	11461.1	11358.2	11313.6	11275.9	11241.5	11176.4
11831.6	5°	11793.8	11728.7	11553.7	11327.3	11070.0	10788.7	10514.3	10325.6	10164.4	10044.3
11937.9	7.5°	11903.6	11780.1	11461.1	10998.0	10408.0	9804.2	9258.8	8871.1	8579.5	8473.2
12088.9	10°	12016.8	11869.3	11313.6	10497.1	9478.3	8548.7	7824.8	7426.9	7193.6	7118.2
12267.2	12.5°	12150.6	11934.5	11083.7	9800.8	8438.9	7420.0	6788.8	6555.6	6435.5	6394.3
12486.8	15°	12346.1	11989.4	10737.3	8929.4	7447.5	6596.7	6188.5	6027.3	5965.5	5962.1
12713.2	17.5°	12493.7	11999.7	10198.7	7996.4	6685.9	6099.3	5763.1	5701.4	5742.6	5804.3
12936.2	20°	12658.3	11907.1	9492.0	7145.6	6150.8	5663.7	5523.0	5564.2	5663.7	5752.8
13231.2	22.5°	12775.0	11739.0	8637.8	6483.5	5687.7	5413.2	5406.4	5492.1	5547.0	5591.6
13577.7	25°	12877.9	11454.2	7732.2	5927.8	5306.9	5262.3	5337.8	5310.3	5272.6	5310.3
13924.2	27.5°	12953.3	11004.8	6922.6	5440.7	5039.3	5159.4	5114.8	5053.0	5049.6	5070.2
14332.4	30°	12929.3	10404.5	6257.1	4977.6	4850.6	4967.3	4860.9	4850.6	4840.3	4850.6
14946.4	32.5°	12929.3	9721.9	5746.0	4658.5	4730.6	4686.0	4675.7	4651.7	4610.5	4607.1
15780.0	35°	13001.4	9039.2	5306.9	4487.0	4631.1	4524.7	4531.6	4473.3	4387.5	4346.4
16884.6	37.5°	13148.9	8490.3	4871.2	4404.7	4456.1	4452.7	4425.3	4325.8	4174.8	4044.5
18263.7	40°	13505.6	8329.1	4572.8	4366.9	4373.8	4415.0	4342.9	4150.8	3807.8	3595.1
19663.3	42.5°	14064.8	8600.1	4507.6	4274.3	4318.9	4360.1	4219.4	3773.5	3529.9	3403.0
21131.5	45°	14774.9	9073.5	4648.2	4140.5	4188.6	4260.6	3842.1	3629.4	3519.6	3523.1
22586.0	47.5°	15673.7	9570.9	4909.0	4023.9	3999.9	4041.1	3591.7	3461.3	3310.4	3348.1
23982.2	50°	16713.1	10075.2	5155.9	3866.1	3790.6	3656.8	3430.4	3306.9	3114.8	3025.6
25330.4	52.5°	17838.3	10562.3	5255.4	3674.0	3564.2	3409.9	3320.7	3169.7	2936.5	2788.9
26603.1	55°	18905.1	11004.8	5145.7	3444.2	3337.8	3217.8	3204.0	3111.4	2861.0	2655.2
27735.1	57.5°	19913.7	11375.3	4871.2	3210.9	3108.0	3035.9	3128.6	3084.0	2768.4	2504.2
28805.4	60°	20767.9	11629.2	4473.3	2974.2	2902.2	2864.4	3005.1	2991.3	2638.0	2343.0
29765.9	62.5°	21447.1	11728.7	4034.2	2747.8	2730.6	2662.0	2833.5	2833.5	2473.3	2185.2
30609.8	65°	21978.8	11632.6	3588.2	2524.8	2559.1	2456.2	2624.3	2603.7	2298.4	2044.5
31580.6	67.5°	22448.8	11317.0	3094.3	2305.3	2384.2	2253.8	2404.7	2356.7	2106.3	1903.9
32421.1	70°	22658.0	10582.9	2531.7	2085.7	2181.8	2054.8	2185.2	2096.0	1890.2	1753.0
31498.3	72.5°	20977.1	8795.6	1993.1	1855.9	1938.2	1835.3	1948.5	1845.6	1656.9	1595.2
27200.0	75°	17354.6	6600.2	1533.4	1605.4	1667.2	1588.3	1663.8	1588.3	1416.8	1461.4
20092.1	77.5°	12603.4	4456.1	1173.2	1341.3	1368.7	1327.6	1392.8	1307.0	1152.6	1142.3
10013.5	80°	6267.4	2610.6	919.4	1060.0	1049.7	1022.3	1097.7	1056.6	926.2	981.1
2703.2	82.5°	1814.7	1118.3	668.9	744.4	723.8	730.7	785.6	806.2	1207.5	1197.2
840.5	85°	569.5	439.1	401.4	415.1	394.5	404.8	463.1	919.4	850.7	497.4
260.7	87.5°	147.5	150.9	99.5	106.3	109.8	130.4	147.5	559.2	267.6	175.0
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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180°
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11704.7
11145.5
9944.8
8287.9
7001.5
6404.6
5975.8
5828.3
5783.7
5615.6
5334.3
5104.5
4888.4
4651.7
4387.5
4089.1
3622.5
3403.0
3540.2
3444.2
3049.7
2785.5
2655.2
2490.5
2332.7
2174.9
2030.8
1890.2
1725.5
1543.7
1334.4
1090.9
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1224.7
538.6
185.2
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