

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: P956157

Luminaire Tested: **GALN-SB8D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956157
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-SB8D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48951 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

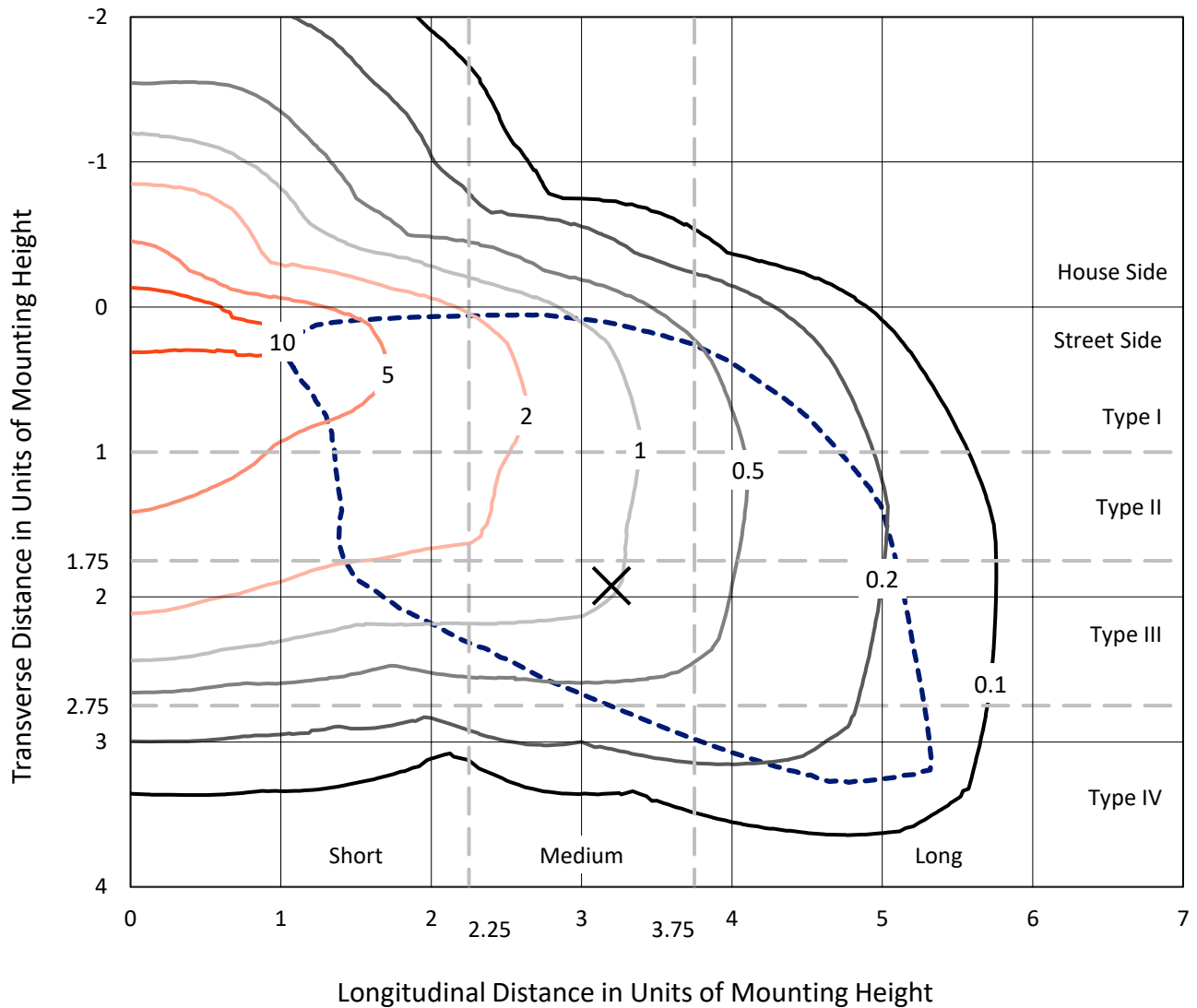
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

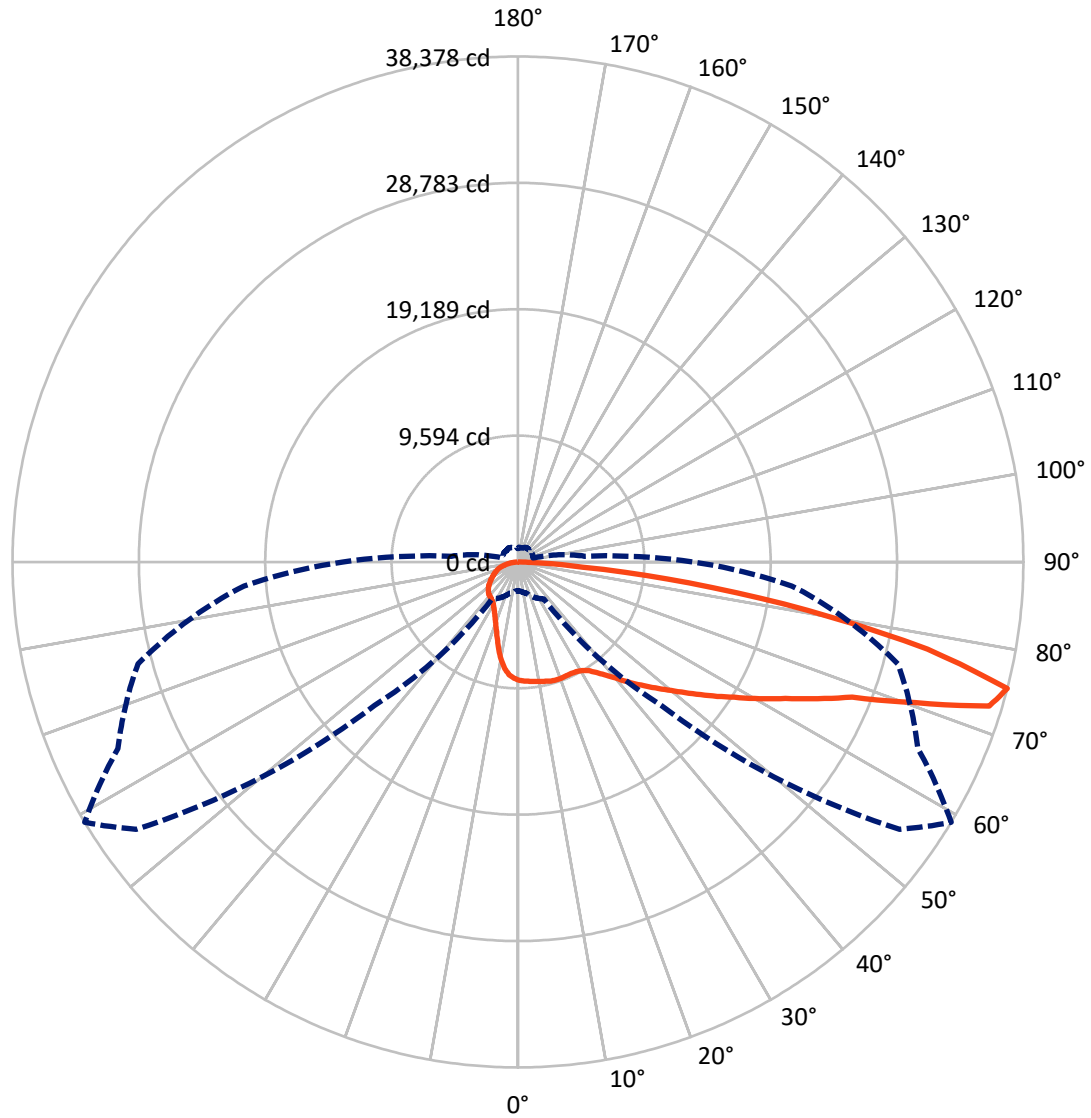
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	9181.1	0.0	9181.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39769.9	0.0	39769.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	48951.0	0.0	48951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.6	1.6
10°-20°	2059.3	4.2
20°-30°	3127.9	6.4
30°-40°	4649.5	9.5
40°-50°	6914.6	14.1
50°-60°	9385.7	19.2
60°-70°	11458.4	23.4
70°-80°	8992.4	18.4
80°-90°	1557.7	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°	48951.0	100.0
0°-180°	48951.0	100.0

Coefficient of Utilization



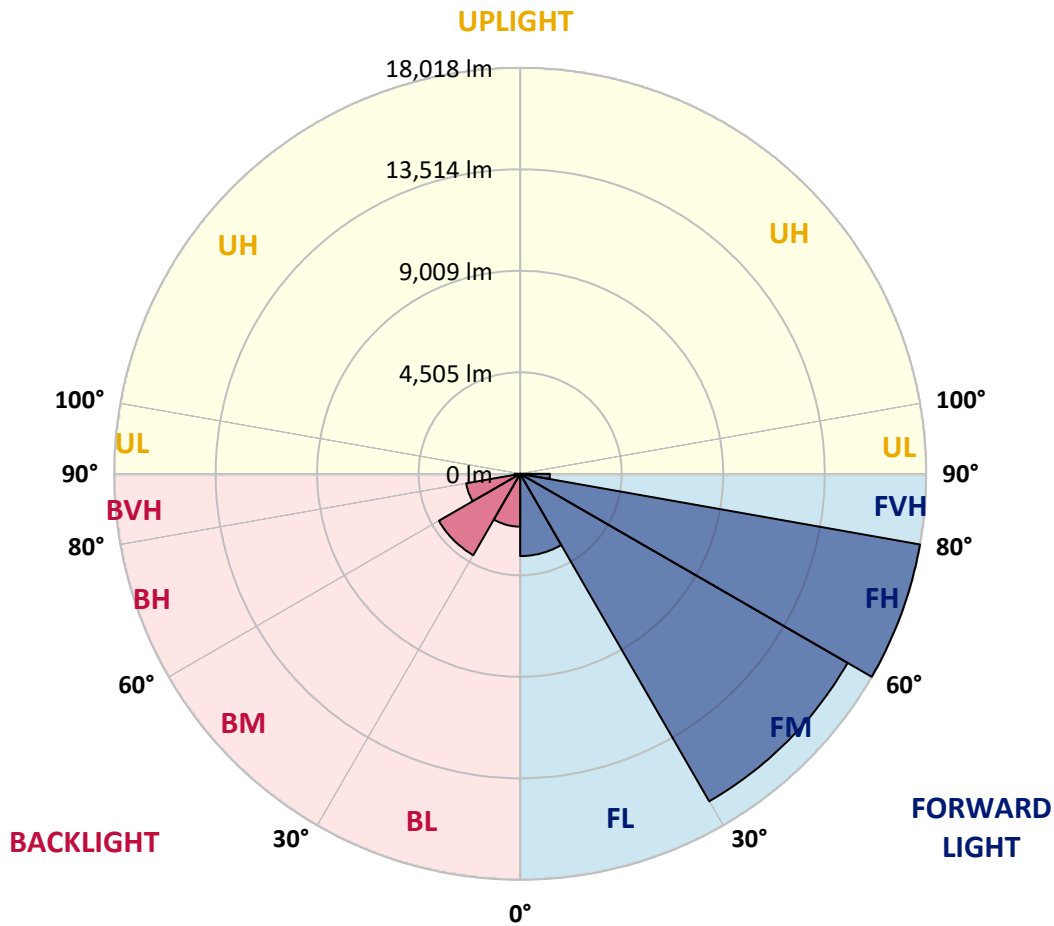
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3649.8	7.5			
FM (30°-60°)	16782.4	34.3			
FH (60°-80°)	18018.4	36.8			G5
FVH (80°-90°)	1319.3	2.7			G5
BL (0°-30°)	2342.9	4.8	B3/2500		
BM (30°-60°)	4167.3	8.5	B3/5000		
BH (60°-80°)	2432.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	238.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8
2.5°	9061.2	9029.6	9061.2	9048.0	9042.8	9032.2	9034.9	9053.3	9042.8	9055.9
5°	9000.6	8982.2	9013.8	9005.9	9040.1	9045.4	9079.6	9100.7	9113.9	9116.5
7.5°	8900.6	8882.1	8926.9	8963.8	9037.5	9058.6	9129.7	9163.9	9182.3	9213.9
10°	8534.6	8526.7	8637.3	8776.8	8950.6	9058.6	9166.5	9224.5	9253.4	9337.7
12.5°	7886.8	7897.3	8042.1	8310.7	8658.3	9005.9	9208.7	9292.9	9337.7	9443.0
15°	7267.9	7265.3	7423.3	7710.3	8197.5	8774.2	9229.7	9374.6	9450.9	9606.3
17.5°	6909.8	6899.3	7009.9	7228.4	7681.4	8418.7	9177.1	9419.3	9582.6	9777.5
20°	6844.0	6822.9	6880.8	6988.8	7310.1	8029.0	9040.1	9419.3	9687.9	9940.7
22.5°	7083.6	7049.4	7025.7	7012.5	7154.7	7707.7	8884.8	9387.7	9843.3	10175.1
25°	7565.5	7512.8	7391.7	7273.2	7231.1	7562.9	8747.8	9379.8	10075.0	10491.1
27.5°	8345.0	8279.1	8034.2	7749.8	7494.4	7636.6	8687.3	9427.2	10330.5	10825.5
30°	9311.4	9240.3	8932.2	8495.1	8036.9	7910.5	8763.6	9566.8	10657.0	11270.6
32.5°	10177.7	10098.7	9835.4	9390.4	8771.5	8384.5	9005.9	9832.8	11170.5	11889.4
35°	10946.7	10854.5	10617.5	10206.7	9672.1	9050.7	9443.0	10304.1	11899.9	12895.3
37.5°	11699.8	11591.8	11333.8	10899.3	10525.3	9938.1	10046.1	10909.8	12869.0	14117.2
40°	12542.4	12387.1	12073.7	11644.5	11281.1	10978.3	10838.7	11652.4	13853.8	15481.2
42.5°	13358.8	13211.3	12837.4	12471.3	12015.8	11928.9	11757.7	12521.4	14930.9	16979.6
45°	14238.3	14061.9	13608.9	13145.5	12858.4	12560.9	12647.8	13390.4	15986.8	18506.9
47.5°	15062.5	14865.0	14330.5	13814.3	13656.3	13092.8	13464.1	14346.3	17084.9	20055.3
50°	15507.6	15312.7	14867.7	14401.6	14277.8	13748.5	14348.9	15397.0	18235.7	21598.4
52.5°	15878.8	15668.2	15086.2	14828.2	14791.3	14462.1	15439.1	16597.7	19386.4	22962.4
55°	16273.8	16039.5	15296.9	15065.2	15233.7	15262.7	16732.0	17959.2	20603.0	24292.3
57.5°	16729.4	16431.8	15499.7	15265.3	15665.5	16200.1	18217.2	19370.6	21798.5	25524.7
60°	17158.6	16858.4	15889.4	15583.9	16131.6	17287.7	19921.0	21079.6	23152.0	26622.7
62.5°	17242.9	16995.4	16200.1	16197.5	16763.6	18556.9	21938.1	22804.4	24334.4	27707.7
65°	15784.0	15628.7	15157.3	16173.8	17669.5	20384.4	24184.3	25011.2	25838.0	28655.7
67.5°	12013.2	12034.2	12000.0	13961.8	16937.4	23009.8	27436.4	27373.2	27694.5	29719.5
70°	5493.1	5616.8	6422.6	9637.9	13569.4	23312.7	32813.7	31994.7	30025.0	31096.7
72.5°	2967.7	3062.5	3391.7	4668.9	8158.0	20726.8	36832.1	37414.0	33124.4	32023.7
75°	2177.7	2230.4	2459.5	2967.7	3425.9	15404.9	35391.7	38377.8	33511.5	29861.7
77.5°	1630.0	1653.7	1840.7	2351.5	1753.8	8121.1	28279.1	31784.0	28687.3	24534.5
80°	1182.4	1208.7	1348.3	1764.3	1229.8	2970.4	19418.0	22309.4	19647.1	15639.2
82.5°	816.3	826.9	887.4	1200.8	858.5	1153.4	11017.8	13082.3	10967.7	5487.8
85°	492.4	505.6	531.9	700.5	487.2	547.7	4755.8	4919.0	3278.5	1311.4
87.5°	202.8	215.9	237.0	294.9	192.2	152.7	784.7	984.9	613.6	384.5
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°
8984.8	0°	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8	8984.8
9011.2	2.5°	8998.0	8979.6	8929.5	8861.1	8797.9	8718.9	8684.6	8655.7	8629.4	8579.3
9082.3	5°	9053.3	9003.3	8869.0	8695.2	8497.7	8281.8	8071.1	7926.3	7802.5	7710.3
9163.9	7.5°	9137.6	9042.8	8797.9	8442.4	7989.5	7526.0	7107.3	6809.7	6585.9	6504.3
9279.8	10°	9224.5	9111.2	8684.6	8057.9	7275.8	6562.2	6006.6	5701.1	5522.0	5464.1
9416.7	12.5°	9327.2	9161.3	8508.2	7523.4	6477.9	5695.8	5211.3	5032.3	4940.1	4908.5
9585.2	15°	9477.3	9203.4	8242.3	6854.5	5716.9	5063.9	4750.5	4626.7	4579.3	4576.7
9759.0	17.5°	9590.5	9211.3	7828.8	6138.2	5132.3	4682.0	4424.0	4376.6	4408.2	4455.6
9930.2	20°	9716.9	9140.2	7286.4	5485.2	4721.5	4347.6	4239.6	4271.2	4347.6	4416.1
10156.7	22.5°	9806.4	9011.2	6630.7	4977.0	4366.0	4155.4	4150.1	4215.9	4258.1	4292.3
10422.6	25°	9885.4	8792.6	5935.5	4550.4	4073.7	4039.5	4097.4	4076.4	4047.4	4076.4
10688.6	27.5°	9943.4	8447.7	5314.0	4176.4	3868.3	3960.5	3926.3	3878.9	3876.2	3892.0
11002.0	30°	9924.9	7986.8	4803.2	3820.9	3723.5	3813.0	3731.4	3723.5	3715.6	3723.5
11473.3	32.5°	9924.9	7462.8	4410.8	3576.0	3631.3	3597.1	3589.2	3570.8	3539.2	3536.5
12113.2	35°	9980.2	6938.8	4073.7	3444.4	3555.0	3473.3	3478.6	3433.8	3368.0	3336.4
12961.1	37.5°	10093.5	6517.4	3739.3	3381.2	3420.7	3418.0	3397.0	3320.6	3204.7	3104.7
14019.7	40°	10367.3	6393.7	3510.2	3352.2	3357.5	3389.1	3333.8	3186.3	2923.0	2759.7
15094.1	42.5°	10796.6	6601.7	3460.2	3281.1	3315.3	3346.9	3239.0	2896.6	2709.7	2612.2
16221.2	45°	11341.7	6965.1	3568.1	3178.4	3215.3	3270.6	2949.3	2786.0	2701.8	2704.4
17337.7	47.5°	12031.6	7346.9	3768.3	3088.9	3070.4	3102.0	2757.1	2657.0	2541.1	2570.1
18409.5	50°	12829.5	7734.0	3957.9	2967.7	2909.8	2807.1	2633.3	2538.5	2391.0	2322.6
19444.3	52.5°	13693.2	8108.0	4034.2	2820.3	2736.0	2617.5	2549.0	2433.2	2254.1	2140.9
20421.3	55°	14512.2	8447.7	3950.0	2643.8	2562.2	2470.0	2459.5	2388.4	2196.2	2038.2
21290.3	57.5°	15286.4	8732.0	3739.3	2464.8	2385.8	2330.5	2401.6	2367.3	2125.1	1922.3
22111.9	60°	15942.0	8926.9	3433.8	2283.1	2227.8	2198.8	2306.8	2296.2	2025.0	1798.5
22849.2	62.5°	16463.4	9003.3	3096.8	2109.3	2096.1	2043.4	2175.1	2175.1	1898.6	1677.4
23497.0	65°	16871.6	8929.5	2754.4	1938.1	1964.4	1885.4	2014.5	1998.7	1764.3	1569.5
24242.2	67.5°	17232.4	8687.3	2375.2	1769.6	1830.1	1730.1	1845.9	1809.1	1616.9	1461.5
24887.4	70°	17393.0	8123.8	1943.4	1601.1	1674.8	1577.4	1677.4	1609.0	1451.0	1345.6
24179.0	72.5°	16102.7	6751.8	1530.0	1424.6	1487.8	1408.8	1495.7	1416.7	1271.9	1224.5
20879.5	75°	13321.9	5066.5	1177.1	1232.4	1279.8	1219.2	1277.2	1219.2	1087.6	1121.8
15423.3	77.5°	9674.8	3420.7	900.6	1029.6	1050.7	1019.1	1069.1	1003.3	884.8	876.9
7686.6	80°	4811.1	2003.9	705.7	813.7	805.8	784.7	842.7	811.1	711.0	753.1
2075.0	82.5°	1393.0	858.5	513.5	571.4	555.6	560.9	603.0	618.8	926.9	919.0
645.2	85°	437.1	337.1	308.1	318.6	302.8	310.7	355.5	705.7	653.1	381.8
200.1	87.5°	113.2	115.9	76.4	81.6	84.3	100.1	113.2	429.2	205.4	134.3
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>
8984.8
8555.6
7634.0
6362.1
5374.6
4916.4
4587.2
4474.0
4439.8
4310.7
4094.8
3918.4
3752.5
3570.8
3368.0
3138.9
2780.8
2612.2
2717.6
2643.8
2341.0
2138.2
2038.2
1911.8
1790.6
1669.5
1558.9
1451.0
1324.6
1185.0
1024.4
837.4
745.2
940.1
413.4
142.2
0.0

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