

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: P953551

Luminaire Tested: **GALN-SB7A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953551
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-SB7A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27572 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

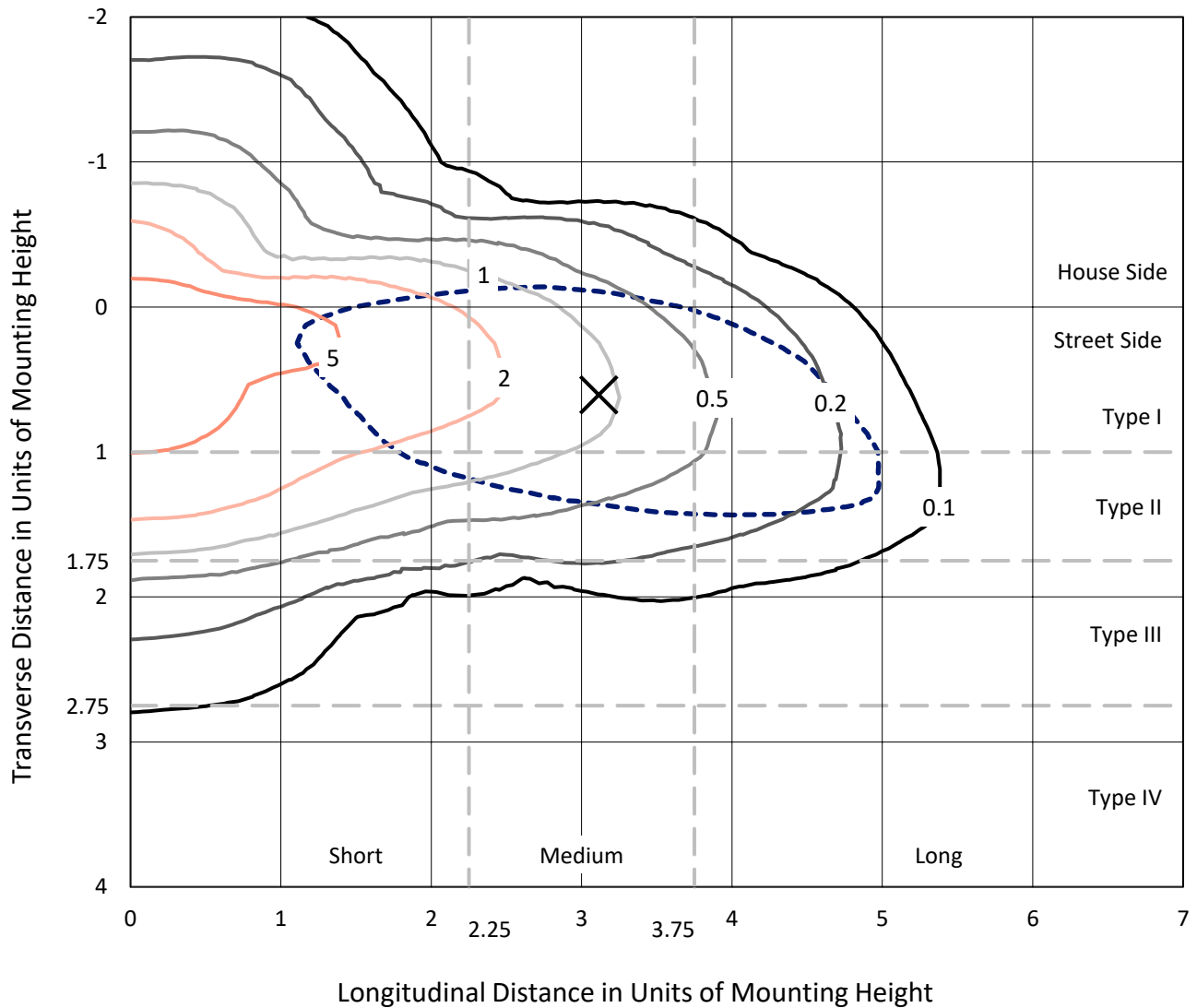
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

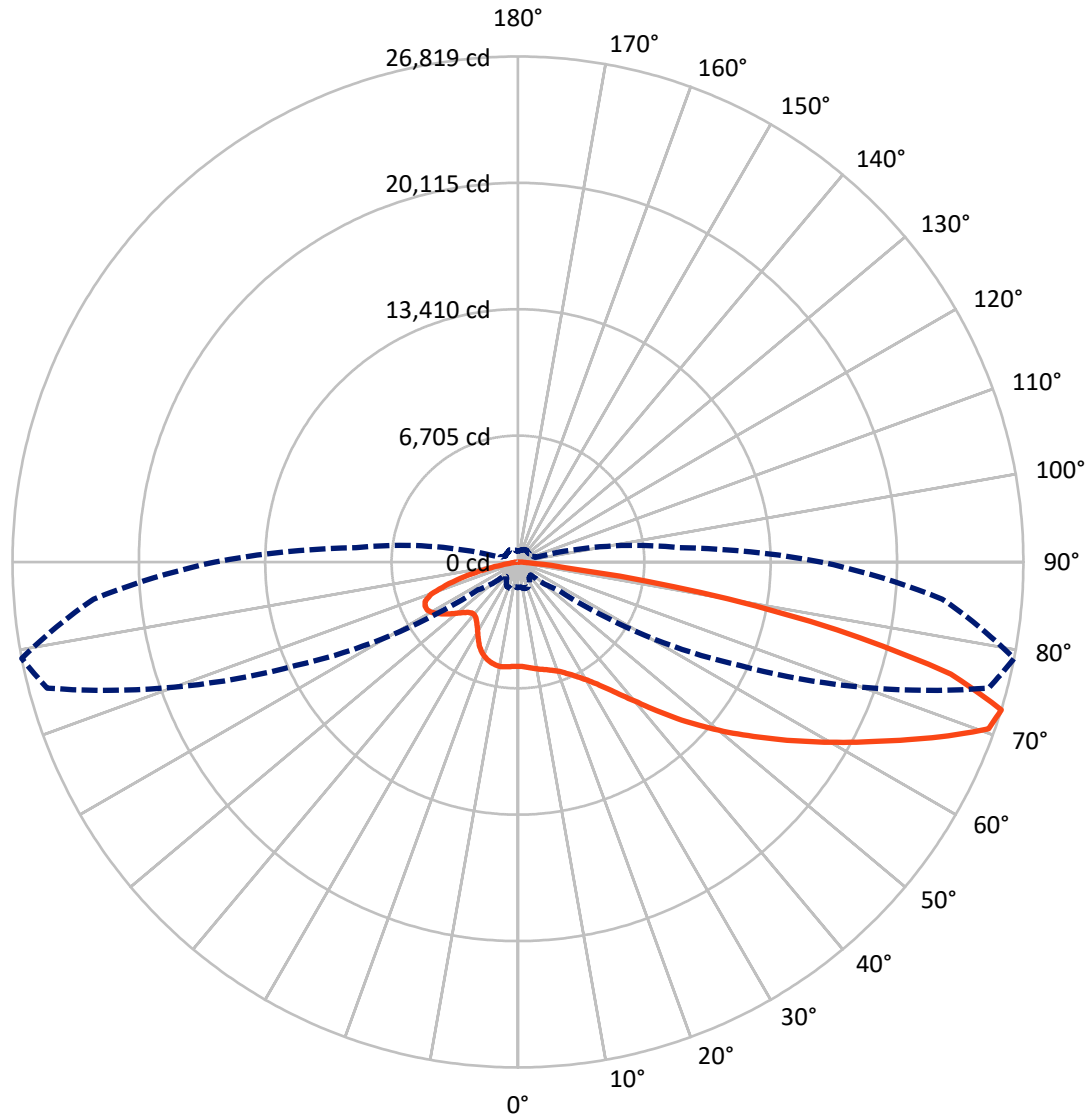
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	6067.4	0.0	6067.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21504.7	0.0	21504.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	27572.0	0.0	27572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.4	1.8
10°-20°	1313.5	4.8
20°-30°	2119.5	7.7
30°-40°	3181.1	11.5
40°-50°	4512.5	16.4
50°-60°	5698.7	20.7
60°-70°	5787.8	21.0
70°-80°	3944.7	14.3
80°-90°	511.8	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°	27572.0	100.0
0°-180°	27572.0	100.0



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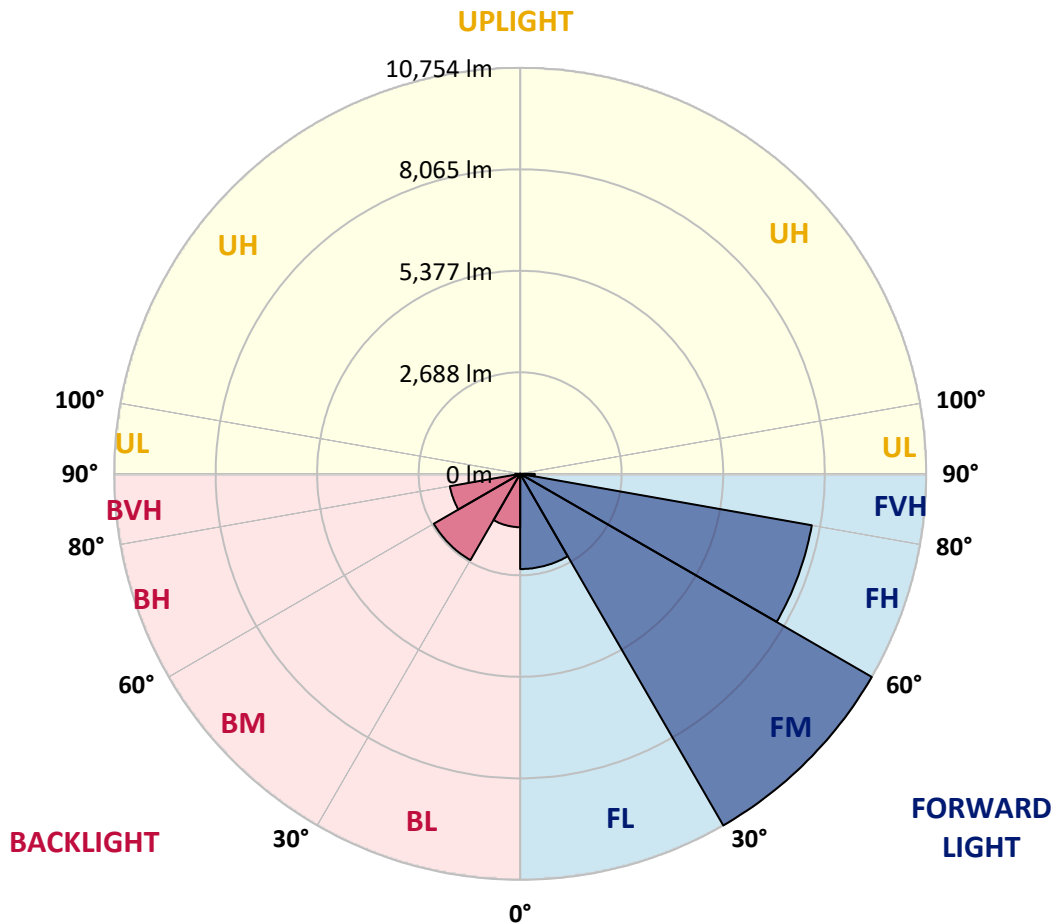
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2522.2	9.1			
FM (30°-60°)	10753.6	39.0			
FH (60°-80°)	7843.3	28.4			G4/12000
FVH (80°-90°)	385.5	1.4			G3/500
BL (0°-30°)	1413.3	5.1	B3/2500		
BM (30°-60°)	2638.7	9.6	B3/5000		
BH (60°-80°)	1889.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	126.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8
2.5°	5537.7	5511.5	5527.5	5521.7	5529.0	5537.7	5540.7	5545.0	5559.6	5558.2
5°	5526.1	5499.8	5521.7	5514.4	5533.4	5553.8	5571.3	5587.3	5610.7	5620.9
7.5°	5501.3	5483.8	5505.6	5527.5	5562.5	5593.2	5617.9	5654.4	5688.0	5693.8
10°	5356.9	5343.8	5394.8	5451.7	5547.9	5631.1	5685.0	5727.3	5763.8	5769.6
12.5°	5206.7	5190.6	5247.5	5324.8	5480.9	5631.1	5744.8	5800.3	5832.3	5851.3
15°	5181.9	5168.7	5200.8	5267.9	5397.7	5591.7	5785.7	5887.8	5915.5	5937.3
17.5°	5301.5	5276.7	5289.8	5313.1	5389.0	5555.2	5817.8	5986.9	6029.2	6052.6
20°	5578.6	5543.6	5523.1	5476.5	5463.4	5561.1	5814.8	6106.5	6162.0	6191.1
22.5°	5947.6	5924.2	5880.5	5762.3	5634.0	5632.5	5870.3	6259.7	6363.2	6390.9
25°	6393.8	6358.8	6303.4	6143.0	5896.5	5774.0	5963.6	6455.1	6628.7	6635.9
27.5°	6907.2	6854.7	6778.9	6567.4	6234.9	5995.7	6106.5	6679.7	6933.5	6930.6
30°	7448.3	7395.8	7315.6	7058.9	6640.3	6294.7	6304.9	6921.8	7295.2	7279.1
32.5°	7843.5	7804.2	7788.1	7589.8	7107.0	6647.6	6532.4	7190.2	7741.5	7726.9
35°	8146.9	8095.9	8114.8	8014.2	7616.0	7042.9	6811.0	7509.6	8284.0	8282.5
37.5°	8447.3	8402.1	8418.2	8351.1	8087.1	7544.6	7150.8	7900.4	8956.3	8988.4
40°	8721.5	8673.4	8737.6	8674.9	8453.2	8078.4	7537.3	8342.3	9735.2	9796.4
42.5°	8886.3	8848.4	8954.9	8956.3	8771.1	8529.0	7961.7	8829.5	10636.5	10773.6
45°	8943.2	8930.1	9090.5	9124.1	9052.6	8790.1	8343.8	9360.3	11607.8	11852.8
47.5°	8882.0	8857.2	9078.8	9202.8	9259.7	8912.6	8660.3	9935.0	12599.5	12958.3
50°	8572.8	8524.6	8854.2	9115.3	9318.0	8992.8	8979.7	10598.6	13726.9	14119.3
52.5°	8017.1	7980.6	8355.5	8809.0	9189.7	9032.2	9338.5	11323.4	14797.4	15305.0
55°	7306.8	7258.7	7671.4	8263.6	8870.3	9019.1	9697.2	12134.3	16060.4	16575.3
57.5°	6180.9	6084.7	6606.8	7306.8	8349.6	9003.0	10070.6	12940.8	17343.9	17960.8
60°	4538.7	4395.8	5036.0	5865.9	7331.6	8847.0	10532.9	13845.1	18884.0	19439.7
62.5°	2642.7	2559.6	2978.2	3752.6	5526.1	7928.1	10792.5	14896.6	20397.9	20981.3
65°	2052.0	2028.7	2065.2	2125.0	3075.9	5935.9	9991.8	15921.9	22323.0	22731.4
67.5°	1877.0	1859.5	1875.6	1763.3	1560.5	3306.3	7904.8	16181.5	24385.3	24633.2
70°	1668.5	1648.0	1700.6	1604.3	1228.0	1503.7	5107.5	15239.3	26026.0	26491.3
72.5°	1359.3	1335.9	1458.4	1414.7	1034.0	965.5	2565.4	13000.6	25853.9	26819.4
75°	1044.3	1031.1	1177.0	1213.4	843.0	759.9	1230.9	9663.7	22751.8	23724.6
77.5°	810.9	800.7	875.1	1007.8	679.6	589.2	756.9	6129.9	17145.5	17316.2
80°	608.2	579.0	647.6	780.3	529.4	430.2	513.4	3574.7	10837.7	9824.1
82.5°	380.7	366.1	423.0	520.7	373.4	296.1	334.0	1974.7	4343.3	2558.1
85°	217.3	211.5	230.4	297.5	202.7	170.6	191.1	872.2	793.4	545.5
87.5°	87.5	84.6	105.0	132.7	74.4	62.7	67.1	210.0	175.0	161.9
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°
5534.8	0°	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8	5534.8
5556.7	2.5°	5550.9	5550.9	5530.4	5498.4	5461.9	5438.6	5400.6	5390.4	5351.1	5339.4
5606.3	5°	5617.9	5606.3	5543.6	5453.1	5329.2	5215.4	5090.0	5011.2	4900.4	4861.0
5704.0	7.5°	5702.5	5670.5	5562.5	5364.2	5104.6	4849.3	4583.9	4382.6	4190.1	4121.6
5784.2	10°	5779.8	5734.6	5550.9	5203.7	4754.5	4312.6	3889.7	3593.6	3369.0	3277.1
5873.2	12.5°	5857.1	5774.0	5473.6	4936.9	4257.2	3657.8	3207.1	2976.7	2838.1	2727.3
5946.1	15°	5930.1	5813.4	5354.0	4579.5	3711.8	3103.6	2771.1	2587.3	2476.4	2403.5
6052.6	17.5°	6014.6	5846.9	5174.6	4126.0	3192.5	2720.0	2448.7	2337.9	2316.0	2307.3
6198.4	20°	6132.8	5877.6	4938.3	3618.4	2810.4	2413.7	2273.7	2263.5	2262.1	2257.7
6373.4	22.5°	6259.7	5914.0	4626.2	3157.5	2485.2	2222.7	2197.9	2177.5	2164.3	2162.9
6584.9	25°	6409.9	5925.7	4235.3	2779.8	2208.1	2132.3	2103.1	2072.5	2063.7	2063.7
6825.5	27.5°	6555.7	5886.3	3780.3	2451.7	2052.0	2049.1	2011.2	2001.0	1999.5	2003.9
7099.7	30°	6701.6	5811.9	3328.2	2148.3	1961.6	1961.6	1948.5	1955.8	1961.6	1976.2
7476.0	32.5°	6898.5	5733.2	2950.4	1923.7	1882.9	1868.3	1881.4	1896.0	1901.8	1920.8
7970.4	35°	7187.2	5677.7	2650.0	1801.2	1801.2	1782.2	1789.5	1786.6	1773.5	1764.7
8568.4	37.5°	7569.4	5674.8	2402.1	1744.3	1732.6	1729.7	1731.2	1712.2	1661.2	1599.9
9291.8	40°	8028.8	5753.6	2211.0	1704.9	1696.2	1713.7	1704.9	1653.9	1513.9	1407.4
10181.4	42.5°	8645.7	5978.2	2088.5	1656.8	1683.1	1704.9	1669.9	1493.5	1398.7	1327.2
11195.1	45°	9372.0	6342.8	2025.8	1605.8	1658.3	1684.5	1515.3	1438.0	1362.2	1276.1
12300.6	47.5°	10194.6	6802.2	2011.2	1557.6	1602.8	1618.9	1449.7	1414.7	1328.6	1235.3
13411.9	50°	11090.1	7346.2	2050.6	1500.7	1522.6	1467.2	1427.8	1395.7	1306.8	1214.9
14551.0	52.5°	12016.2	7945.6	2129.3	1423.4	1442.4	1381.2	1419.1	1391.4	1293.6	1169.7
15727.9	55°	12926.2	8549.4	2205.2	1333.0	1360.7	1303.9	1394.3	1373.9	1233.8	1093.8
16983.6	57.5°	13850.9	9150.3	2279.6	1252.8	1282.0	1229.5	1354.9	1327.2	1166.8	1023.8
18354.6	60°	14812.0	9733.7	2314.6	1175.5	1195.9	1160.9	1295.1	1247.0	1090.9	952.4
19702.2	62.5°	15711.9	10219.4	2257.7	1098.2	1111.3	1096.8	1216.3	1152.2	1015.1	872.2
21106.7	65°	16614.7	10508.1	2082.7	1022.4	1025.3	1018.0	1105.5	1050.1	926.1	802.1
22336.2	67.5°	17432.9	10670.0	1804.1	940.7	933.4	930.5	1002.0	939.2	840.1	732.1
23271.0	70°	17606.4	10258.7	1378.2	844.4	844.4	837.2	888.2	824.0	745.3	657.8
22601.6	72.5°	16080.9	8629.6	978.6	735.1	746.7	732.1	774.4	720.5	649.0	590.7
19479.1	75°	12967.1	6328.2	711.7	622.8	643.2	618.4	657.8	619.8	558.6	557.1
13423.6	77.5°	8909.7	3913.0	516.3	513.4	528.0	495.9	541.1	520.7	465.2	440.5
5842.5	80°	3802.2	1560.5	376.3	396.7	396.7	367.5	420.0	425.9	377.7	366.1
1127.4	82.5°	756.9	443.4	264.0	272.7	256.7	247.9	297.5	329.6	455.0	506.1
339.8	85°	227.5	163.3	159.0	148.8	131.3	132.7	175.0	331.1	408.4	233.4
112.3	87.5°	62.7	40.8	42.3	33.5	27.7	36.5	59.8	250.9	137.1	58.3
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>
5534.8
5358.3
4890.2
4130.3
3297.6
2763.8
2416.7
2313.1
2272.3
2178.9
2072.5
2015.6
1986.4
1936.8
1785.1
1601.4
1404.5
1324.3
1270.3
1228.0
1204.7
1160.9
1086.5
1020.9
948.0
870.7
793.4
723.4
654.8
573.2
501.7
412.7
366.1
507.5
201.3
49.6
0.0

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