

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: P948912

Luminaire Tested: **GALN-SB3D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948912
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-SB3D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 25948 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

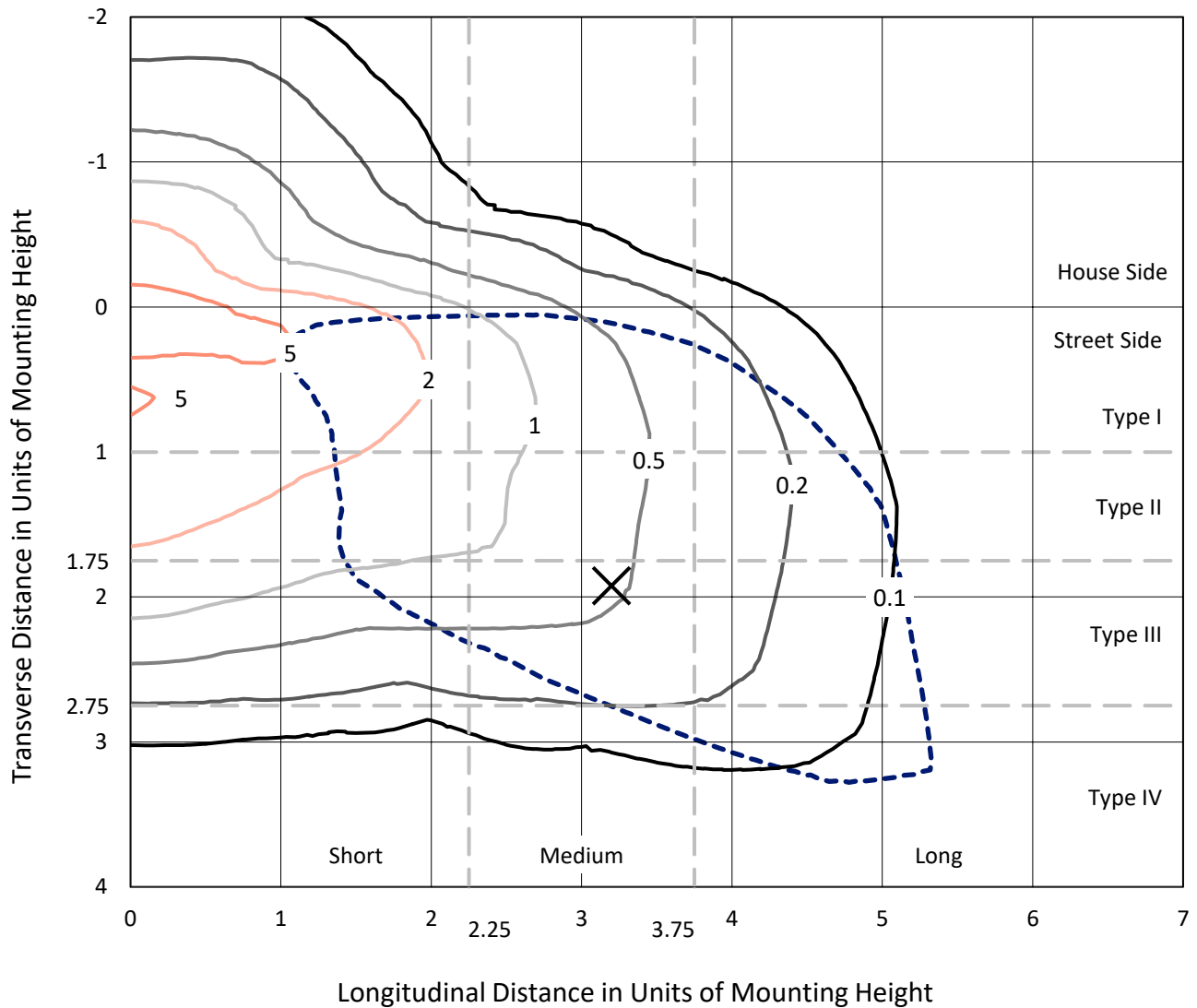
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

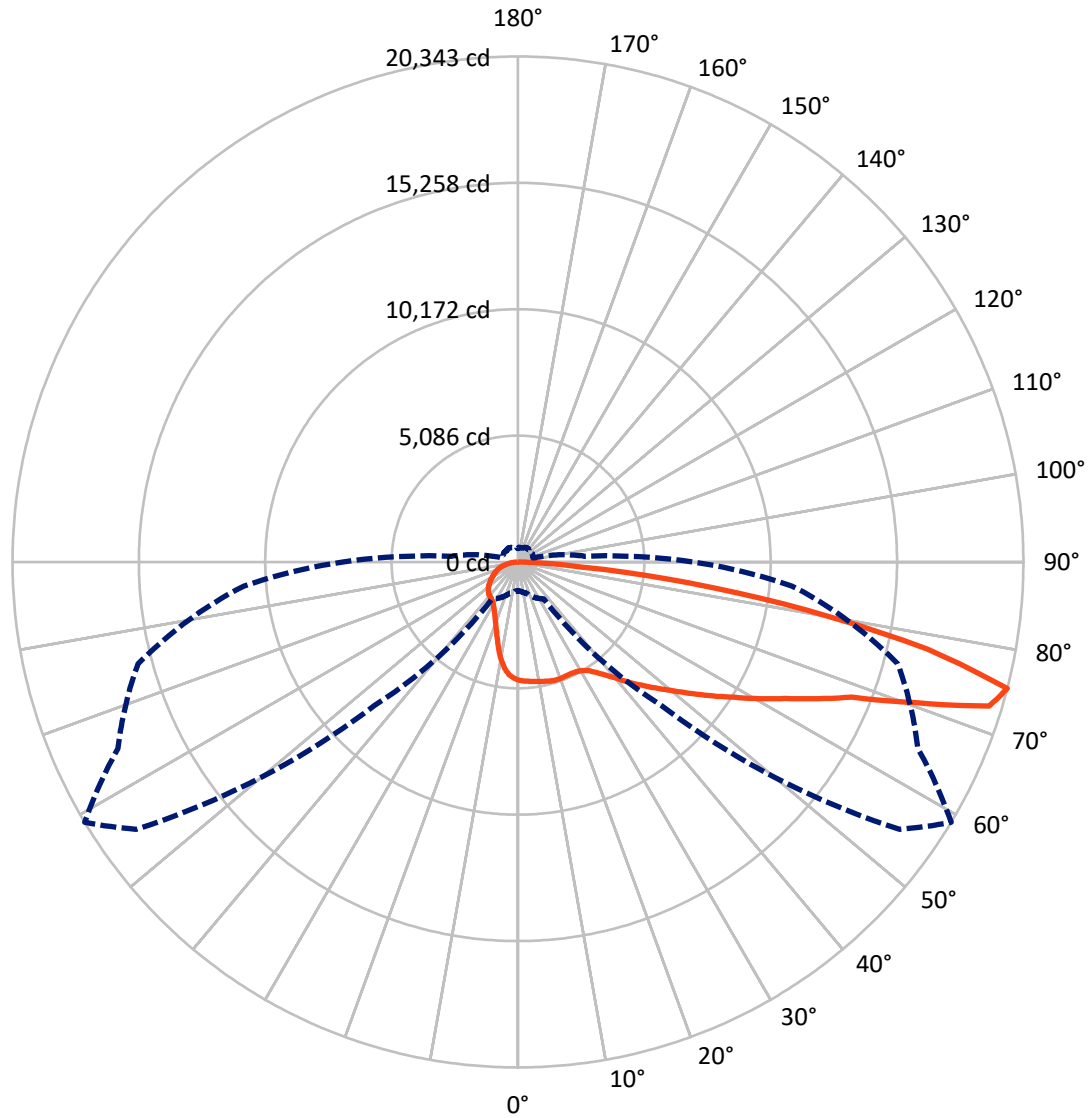
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4866.7	0.0	4866.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21081.3	0.0	21081.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	25948.0	0.0	25948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	1.6
10°-20°	1091.6	4.2
20°-30°	1658.0	6.4
30°-40°	2464.6	9.5
40°-50°	3665.3	14.1
50°-60°	4975.2	19.2
60°-70°	6073.9	23.4
70°-80°	4766.7	18.4
80°-90°	825.7	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°	25948.0	100.0
0°-180°	25948.0	100.0



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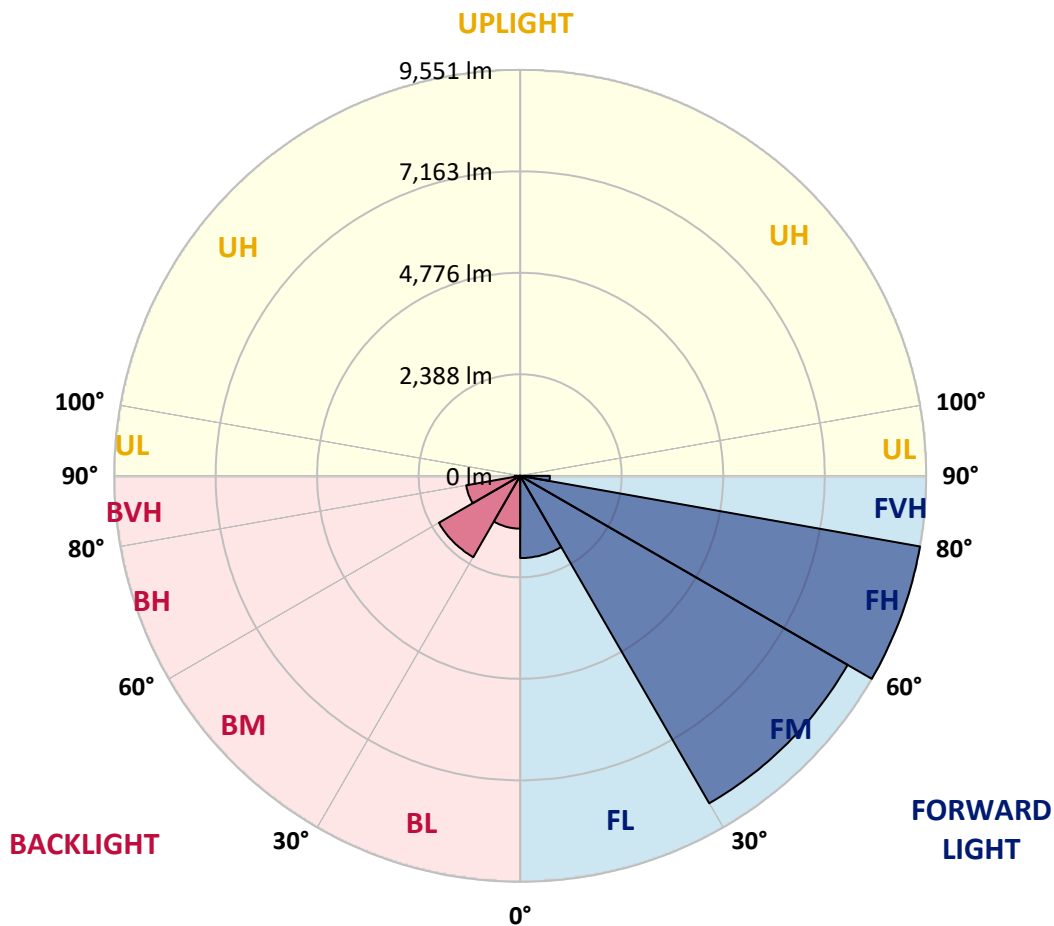
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.7	7.5			
FM (30°-60°)	8896.1	34.3			
FH (60°-80°)	9551.2	36.8			G4/12000
FVH (80°-90°)	699.3	2.7			G4/750
BL (0°-30°)	1241.9	4.8	B3/2500		
BM (30°-60°)	2209.0	8.5	B2/2500		
BH (60°-80°)	1289.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	126.4	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7
2.5°	4803.2	4786.4	4803.2	4796.2	4793.4	4787.8	4789.2	4799.0	4793.4	4800.4
5°	4771.1	4761.3	4778.1	4773.9	4792.0	4794.8	4812.9	4824.1	4831.1	4832.5
7.5°	4718.0	4708.3	4732.0	4751.5	4790.6	4801.8	4839.5	4857.6	4867.4	4884.1
10°	4524.0	4519.8	4578.4	4652.4	4744.6	4801.8	4859.0	4889.7	4905.1	4949.7
12.5°	4180.6	4186.2	4263.0	4405.4	4589.6	4773.9	4881.3	4926.0	4949.7	5005.6
15°	3852.6	3851.2	3934.9	4087.1	4345.3	4651.0	4892.5	4969.3	5009.8	5092.1
17.5°	3662.8	3657.2	3715.8	3831.7	4071.7	4462.6	4864.6	4993.0	5079.6	5182.9
20°	3627.9	3616.7	3647.4	3704.6	3874.9	4256.0	4792.0	4993.0	5135.4	5269.4
22.5°	3754.9	3736.7	3724.2	3717.2	3792.6	4085.7	4709.7	4976.3	5217.8	5393.6
25°	4010.3	3982.4	3918.2	3855.4	3833.1	4008.9	4637.1	4972.1	5340.6	5561.1
27.5°	4423.5	4388.6	4258.8	4108.0	3972.6	4048.0	4605.0	4997.2	5476.0	5738.4
30°	4935.8	4898.1	4734.8	4503.1	4260.2	4193.2	4645.4	5071.2	5649.1	5974.3
32.5°	5395.0	5353.1	5213.6	4977.7	4649.6	4444.4	4773.9	5212.2	5921.3	6302.3
35°	5802.6	5753.8	5628.1	5410.4	5127.0	4797.6	5005.6	5462.0	6307.9	6835.6
37.5°	6201.8	6144.6	6007.8	5777.5	5579.3	5268.0	5325.2	5783.1	6821.6	7483.2
40°	6648.5	6566.2	6400.0	6172.5	5979.9	5819.4	5745.4	6176.7	7343.7	8206.3
42.5°	7081.2	7003.1	6804.9	6610.8	6369.3	6323.3	6232.5	6637.3	7914.6	9000.5
45°	7547.5	7453.9	7213.8	6968.2	6816.0	6658.3	6704.3	7098.0	8474.3	9810.2
47.5°	7984.4	7879.7	7596.3	7322.7	7239.0	6940.2	7137.1	7604.7	9056.4	10630.9
50°	8220.3	8117.0	7881.1	7634.0	7568.4	7287.8	7606.1	8161.6	9666.4	11448.9
52.5°	8417.1	8305.4	7996.9	7860.1	7840.6	7666.1	8184.0	8798.1	10276.4	12172.0
55°	8626.5	8502.2	8108.6	7985.8	8075.1	8090.4	8869.3	9519.8	10921.3	12876.9
57.5°	8867.9	8710.2	8216.1	8091.8	8304.0	8587.4	9656.6	10268.0	11555.0	13530.1
60°	9095.5	8936.3	8422.7	8260.7	8551.1	9163.9	10559.7	11173.9	12272.5	14112.2
62.5°	9140.1	9008.9	8587.4	8586.0	8886.1	9836.7	11629.0	12088.2	12899.2	14687.3
65°	8366.8	8284.5	8034.6	8573.4	9366.3	10805.4	12819.6	13257.9	13696.2	15189.8
67.5°	6367.9	6379.1	6361.0	7400.9	8978.2	12197.1	14543.5	14510.0	14680.3	15753.8
70°	2911.8	2977.4	3404.5	5108.9	7192.9	12357.6	17393.9	16959.8	15915.7	16483.8
72.5°	1573.1	1623.4	1797.9	2474.9	4324.4	10986.9	19524.0	19832.5	17558.6	16975.1
75°	1154.4	1182.3	1303.7	1573.1	1816.0	8165.8	18760.5	20343.4	17763.8	15829.1
77.5°	864.0	876.6	975.7	1246.5	929.6	4304.9	14990.2	16848.1	15206.6	13005.3
80°	626.7	640.7	714.7	935.2	651.9	1574.5	10293.1	11825.8	10414.6	8290.1
82.5°	432.7	438.3	470.4	636.5	455.1	611.4	5840.3	6934.7	5813.8	2909.0
85°	261.0	268.0	282.0	371.3	258.2	290.3	2520.9	2607.5	1737.9	695.1
87.5°	107.5	114.5	125.6	156.3	101.9	81.0	416.0	522.1	325.2	203.8
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°
4762.7	0°	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7	4762.7
4776.7	2.5°	4769.7	4759.9	4733.4	4697.1	4663.6	4621.7	4603.6	4588.2	4574.3	4547.7
4814.3	5°	4799.0	4772.5	4701.3	4609.2	4504.5	4390.0	4278.3	4201.6	4136.0	4087.1
4857.6	7.5°	4843.7	4793.4	4663.6	4475.1	4235.1	3989.4	3767.4	3609.7	3491.1	3447.8
4919.0	10°	4889.7	4829.7	4603.6	4271.4	3856.8	3478.5	3184.0	3022.1	2927.1	2896.4
4991.6	12.5°	4944.2	4856.2	4510.0	3988.0	3433.8	3019.3	2762.4	2667.5	2618.6	2601.9
5081.0	15°	5023.7	4878.6	4369.1	3633.4	3030.4	2684.3	2518.1	2452.5	2427.4	2426.0
5173.1	17.5°	5083.7	4882.7	4149.9	3253.8	2720.5	2481.9	2345.1	2319.9	2336.7	2361.8
5263.8	20°	5150.7	4845.1	3862.4	2907.6	2502.8	2304.6	2247.3	2264.1	2304.6	2340.9
5383.9	22.5°	5198.2	4776.7	3514.8	2638.2	2314.3	2202.7	2199.9	2234.8	2257.1	2275.3
5524.8	25°	5240.1	4660.8	3146.3	2412.1	2159.4	2141.3	2172.0	2160.8	2145.4	2160.8
5665.8	27.5°	5270.8	4477.9	2816.9	2213.8	2050.5	2099.4	2081.2	2056.1	2054.7	2063.1
5831.9	30°	5261.0	4233.7	2546.1	2025.4	1973.8	2021.2	1977.9	1973.8	1969.6	1973.8
6081.8	32.5°	5261.0	3955.9	2338.1	1895.6	1924.9	1906.8	1902.6	1892.8	1876.0	1874.6
6421.0	35°	5290.3	3678.1	2159.4	1825.8	1884.4	1841.1	1843.9	1820.2	1785.3	1768.6
6870.5	37.5°	5350.4	3454.8	1982.1	1792.3	1813.2	1811.8	1800.7	1760.2	1698.8	1645.7
7431.6	40°	5495.5	3389.2	1860.7	1776.9	1779.7	1796.5	1767.2	1689.0	1549.4	1462.9
8001.1	42.5°	5723.1	3499.4	1834.2	1739.3	1757.4	1774.1	1716.9	1535.5	1436.3	1384.7
8598.5	45°	6012.0	3692.1	1891.4	1684.8	1704.4	1733.7	1563.4	1476.8	1432.2	1433.6
9190.4	47.5°	6377.7	3894.5	1997.5	1637.4	1627.6	1644.3	1461.5	1408.4	1347.0	1362.4
9758.5	50°	6800.7	4099.7	2098.0	1573.1	1542.4	1488.0	1395.9	1345.6	1267.4	1231.2
10307.1	52.5°	7258.5	4297.9	2138.5	1495.0	1450.3	1387.5	1351.2	1289.8	1194.9	1134.8
10824.9	55°	7692.6	4477.9	2093.8	1401.5	1358.2	1309.3	1303.7	1266.1	1164.2	1080.4
11285.6	57.5°	8103.0	4628.7	1982.1	1306.5	1264.7	1235.3	1273.0	1254.9	1126.5	1019.0
11721.1	60°	8450.6	4732.0	1820.2	1210.2	1180.9	1165.5	1222.8	1217.2	1073.4	953.4
12111.9	62.5°	8727.0	4772.5	1641.5	1118.1	1111.1	1083.2	1153.0	1153.0	1006.4	889.2
12455.3	65°	8943.3	4733.4	1460.1	1027.4	1041.3	999.4	1067.8	1059.5	935.2	831.9
12850.3	67.5°	9134.6	4605.0	1259.1	938.0	970.1	917.1	978.5	959.0	857.1	774.7
13192.3	70°	9219.7	4306.2	1030.1	848.7	887.8	836.1	889.2	852.9	769.1	713.3
12816.8	72.5°	8535.7	3579.0	811.0	755.2	788.7	746.8	792.9	751.0	674.2	649.1
11067.8	75°	7061.7	2685.6	624.0	653.3	678.4	646.3	677.0	646.3	576.5	594.6
8175.6	77.5°	5128.4	1813.2	477.4	545.8	557.0	540.2	566.7	531.8	469.0	464.8
4074.5	80°	2550.2	1062.3	374.1	431.3	427.1	416.0	446.7	429.9	376.9	399.2
1099.9	82.5°	738.4	455.1	272.2	302.9	294.5	297.3	319.7	328.0	491.3	487.2
342.0	85°	231.7	178.7	163.3	168.9	160.5	164.7	188.4	374.1	346.2	202.4
106.1	87.5°	60.0	61.4	40.5	43.3	44.7	53.0	60.0	227.5	108.9	71.2
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>
4762.7
4535.2
4046.6
3372.4
2849.0
2606.1
2431.6
2371.6
2353.4
2285.0
2170.6
2077.0
1989.1
1892.8
1785.3
1663.9
1474.0
1384.7
1440.5
1401.5
1240.9
1133.4
1080.4
1013.4
949.2
885.0
826.4
769.1
702.1
628.1
543.0
443.9
395.0
498.3
219.2
75.4
0.0

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