

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: P944055

Luminaire Tested: **GALN-SB8D-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70897 lumens  
Efficiency: N/A  
Efficacy: 121.2 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

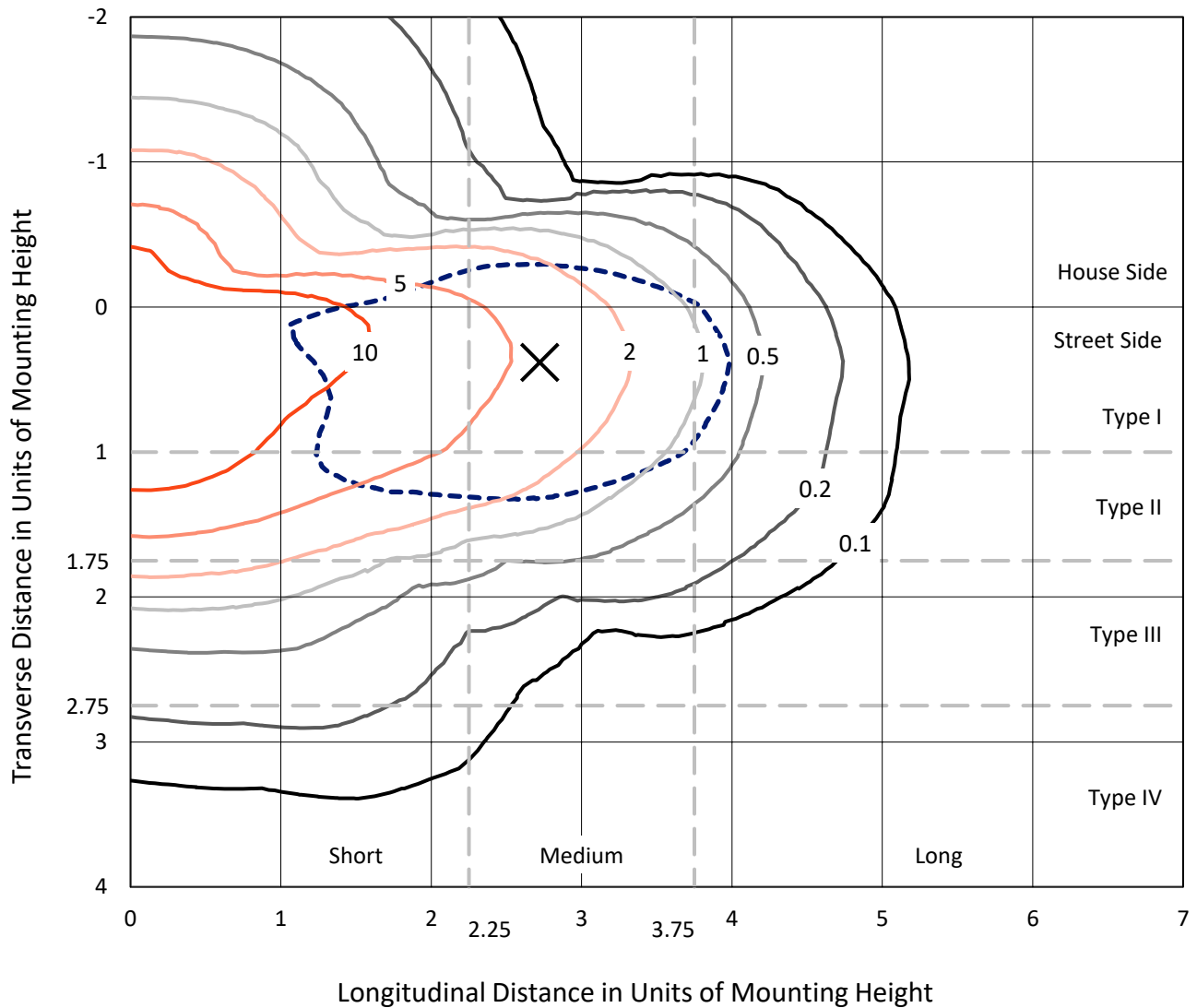
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

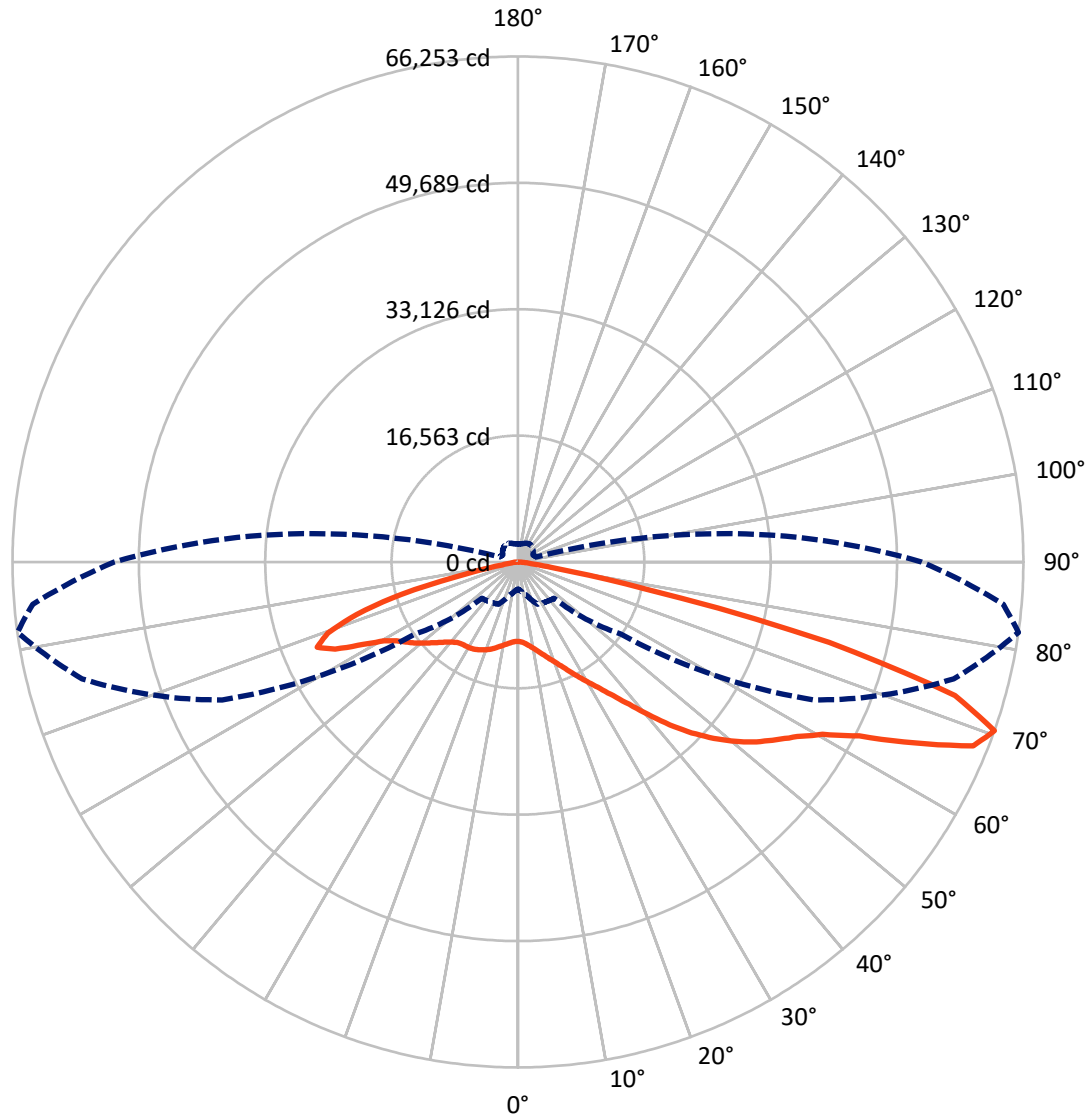
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17477.9	0.0	17477.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	53419.2	0.0	53419.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	70897.0	0.0	70897.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.4	1.4
10°-20°	2819.7	4.0
20°-30°	4717.0	6.7
30°-40°	7369.2	10.4
40°-50°	11736.3	16.6
50°-60°	16332.5	23.0
60°-70°	17084.5	24.1
70°-80°	8929.3	12.6
80°-90°	927.2	1.3
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°	70897.0	100.0
0°-180°	70897.0	100.0

**Coefficient of Utilization**

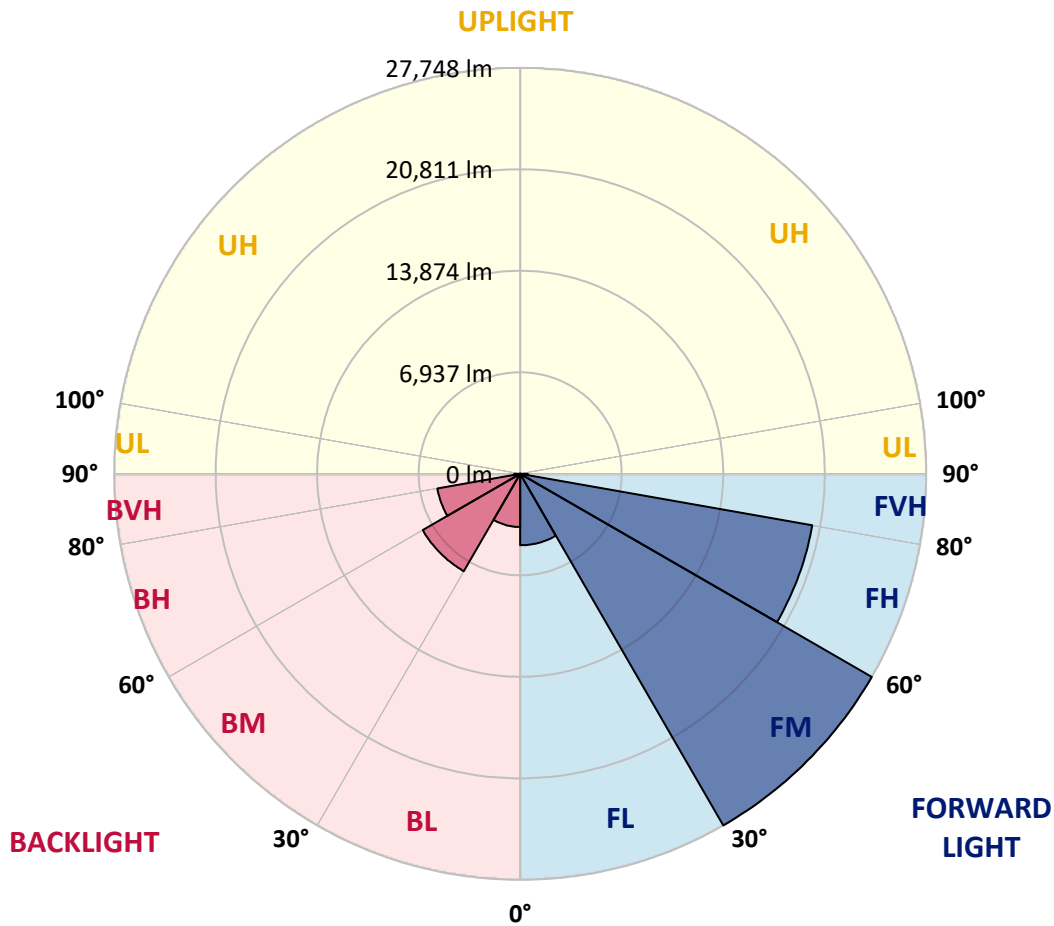


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4882.0	6.9			
FM	(30°-60°)	27748.4	39.1			
FH	(60°-80°)	20269.7	28.6			G5
FVH	(80°-90°)	519.1	0.7			G4/750
BL	(0°-30°)	3636.0	5.1	B4/5000		
BM	(30°-60°)	7689.6	10.8	B4/8500		
BH	(60°-80°)	5744.1	8.1	B5		G5
BVH	(80°-90°)	408.1	0.6			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°	82°
0°	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4
2.5°	10642.7	10702.9	10684.1	10665.3	10665.3	10638.9	10635.2	10597.5	10567.4	10518.5
5°	10778.1	10842.1	10834.5	10849.6	10898.5	10909.8	10921.1	10898.5	10838.3	10778.1
7.5°	10657.7	10729.2	10751.8	10842.1	10992.5	11128.0	11229.5	11270.9	11214.5	11128.0
10°	10251.4	10330.4	10409.4	10623.9	10891.0	11210.7	11481.6	11643.4	11632.1	11549.3
12.5°	9427.6	9510.3	9679.6	10097.2	10586.2	11150.5	11654.7	11993.2	12109.9	12049.7
15°	8769.2	8840.7	8968.6	9397.5	10033.2	10891.0	11718.6	12377.0	12674.2	12640.3
17.5°	8750.4	8780.5	8859.5	9062.6	9551.7	10484.7	11650.9	12753.2	13321.2	13317.5
20°	9081.5	9092.7	9137.9	9179.3	9457.7	10176.2	11477.8	13065.4	14047.3	14047.3
22.5°	9540.4	9532.9	9578.0	9540.4	9675.8	10149.9	11368.7	13340.0	14856.1	14916.3
25°	10228.9	10191.2	10180.0	10093.4	10119.8	10394.4	11489.1	13652.3	15815.4	15939.6
27.5°	11146.8	11086.6	11045.2	10845.8	10778.1	10898.5	11857.8	14028.5	16883.8	17098.3
30°	12343.1	12234.0	12173.8	11827.7	11583.2	11602.0	12414.6	14528.8	18001.1	18347.2
32.5°	13975.8	13806.5	13644.7	13076.7	12629.0	12482.3	13133.1	15221.0	19212.5	19765.5
35°	15804.1	15668.7	15495.6	14619.1	13930.7	13592.1	14103.7	16187.9	20630.8	21507.3
37.5°	17564.7	17448.1	17530.9	16349.6	15461.8	14969.0	15375.3	17485.7	22380.1	23674.2
40°	19385.6	19295.3	19306.5	18178.0	17143.4	16590.4	16917.7	19114.7	24385.2	26251.2
42.5°	21364.4	21296.6	21070.9	20070.2	18907.8	18392.4	18693.3	20995.7	26537.1	29185.5
45°	23580.2	23538.8	23328.1	22180.7	20849.0	20269.6	20675.9	23072.3	28700.2	31946.8
47.5°	25495.0	25528.9	25502.6	24535.7	23155.1	22304.9	22790.2	25239.2	30712.9	34542.6
50°	26416.7	26593.5	26853.1	26552.1	25694.4	24829.2	24923.2	27330.9	32631.5	36976.6
52.5°	25935.2	26270.0	26977.3	27458.8	27789.8	27609.3	27357.2	29407.5	34437.3	39173.6
55°	24140.7	24611.0	25784.7	26947.2	28636.3	29949.2	30280.3	31709.8	36197.9	41107.3
57.5°	20871.5	21635.2	22688.6	25039.8	27883.9	31081.6	33688.6	34903.8	38063.8	43172.6
60°	15266.2	16289.4	17598.6	21097.3	25250.5	30475.9	36589.1	39809.4	40716.1	45847.4
62.5°	9769.9	10401.9	11605.7	14901.3	19675.2	27372.3	37477.0	45941.5	45211.6	50233.9
65°	6688.8	7095.1	8197.4	10048.3	12719.3	20375.0	35099.4	50538.6	52351.9	57186.1
67.5°	4860.5	5169.0	6109.5	7730.9	8287.7	12057.2	27236.8	50327.9	59292.8	64348.9
70°	3543.8	3762.0	4552.0	6109.5	6376.6	6707.6	16500.1	42781.4	59142.3	66252.5
72.5°	2625.9	2776.4	3306.8	4740.1	5161.5	4529.4	8167.3	31092.9	50820.8	59924.8
75°	1899.8	2012.7	2403.9	3626.6	4130.7	3449.7	4074.2	18170.4	35449.3	42153.1
77.5°	1452.1	1538.7	1794.5	2656.0	3306.8	2588.3	2528.1	8359.1	16808.6	16891.3
80°	1166.2	1222.6	1361.8	1869.7	2535.6	1937.4	1647.8	3374.5	5311.9	4495.6
82.5°	857.7	951.8	1151.2	1312.9	1813.3	1335.5	1004.5	1704.2	2020.2	1738.0
85°	489.1	553.0	696.0	940.5	1158.7	816.4	575.6	756.2	940.5	771.2
87.5°	173.1	225.7	244.5	368.7	504.1	338.6	222.0	218.2	308.5	229.5
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°
10394.4	0°	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4	10394.4
10507.2	2.5°	10469.6	10450.8	10375.6	10274.0	10168.7	10067.1	10033.2	9961.8	9912.9	9886.5
10751.8	5°	10680.3	10620.1	10443.3	10217.6	9980.6	9724.8	9544.2	9378.6	9258.3	9145.4
11086.6	7.5°	10981.3	10875.9	10571.2	10176.2	9754.8	9329.7	9013.7	8773.0	8611.2	8505.9
11477.8	10°	11331.1	11169.4	10702.9	10112.2	9461.4	8852.0	8479.5	8272.6	8171.0	8114.6
11925.5	12.5°	11733.7	11504.2	10838.3	9965.5	9013.7	8317.8	8062.0	8001.8	8005.5	8009.3
12489.8	15°	12230.2	11910.5	10947.4	9645.8	8430.6	7907.7	7862.6	7960.4	8062.0	8110.9
13129.4	17.5°	12790.8	12339.3	10966.2	9119.1	7858.8	7644.4	7787.3	7998.0	8152.2	8220.0
13844.1	20°	13392.7	12775.7	10830.8	8374.2	7388.6	7429.9	7685.8	7956.6	8125.9	8212.4
14660.5	22.5°	14081.1	13242.2	10507.2	7591.7	7004.8	7196.7	7497.7	7761.0	7937.8	8024.3
15619.8	25°	14867.4	13765.1	9999.4	6933.4	6673.8	6933.4	7234.3	7452.5	7595.5	7674.5
16692.0	27.5°	15740.2	14310.6	9322.2	6410.4	6384.1	6662.5	6910.8	7080.1	7155.3	7215.5
17831.8	30°	16616.7	14807.2	8502.1	6015.4	6132.0	6395.4	6572.2	6647.4	6670.0	6681.3
19103.4	32.5°	17564.7	15236.1	7640.6	5688.1	5891.3	6135.8	6241.1	6275.0	6169.7	6098.2
20645.8	35°	18712.2	15695.0	6797.9	5428.6	5654.3	5864.9	5898.8	5868.7	5744.6	5597.8
22579.5	37.5°	20130.4	16266.9	6124.5	5244.2	5432.3	5571.5	5530.1	5522.6	5533.9	5360.8
24904.4	40°	21868.5	17011.7	5631.7	5101.3	5251.7	5281.8	5165.2	5229.2	5285.6	5022.3
27455.0	42.5°	23798.4	17910.8	5319.5	5003.5	5101.3	5029.8	4849.2	4920.7	4913.2	4567.1
30016.9	45°	25765.9	18889.0	5210.4	4932.0	4962.1	4819.1	4619.7	4638.5	4480.5	4168.3
32473.5	47.5°	27722.1	19938.6	5278.1	4871.8	4789.0	4627.3	4473.0	4390.2	4157.0	3923.8
34828.5	50°	29640.7	21040.8	5526.4	4751.4	4552.0	4458.0	4345.1	4198.4	3950.1	3750.7
37055.6	52.5°	31420.2	22150.6	5804.8	4552.0	4254.8	4311.2	4239.8	4070.5	3825.9	3622.8
39162.3	55°	33105.5	23260.4	5913.9	4277.4	3976.4	4183.3	4142.0	3829.7	3536.3	3370.7
41366.9	57.5°	34941.4	24595.9	5793.5	3927.5	3750.7	4036.6	3878.6	3532.5	3363.2	3239.1
44237.3	60°	37484.5	26691.3	5533.9	3494.9	3536.3	3818.4	3547.6	3404.6	3220.3	3081.1
48541.0	62.5°	41709.2	30600.1	5116.3	3066.0	3284.2	3494.9	3389.6	3246.6	3058.5	2923.1
55899.5	65°	47954.1	36032.4	4330.1	2731.2	3002.1	3178.9	3220.3	3077.3	2881.7	2738.7
62347.5	67.5°	53220.9	39440.7	3276.7	2452.8	2712.4	2923.1	3039.7	2900.5	2693.6	2554.4
63856.1	70°	52931.2	36965.3	2501.7	2178.2	2456.6	2671.0	2821.5	2712.4	2490.4	2358.8
58002.4	72.5°	47013.6	30923.6	2024.0	1899.8	2197.0	2407.7	2588.3	2505.5	2279.8	2151.9
42491.7	75°	34538.9	21951.2	1617.7	1617.7	1873.5	2133.1	2332.4	2279.8	2072.9	1982.6
17839.4	77.5°	14558.9	9209.4	1267.8	1343.0	1557.5	1832.1	2080.4	2099.2	1918.6	2031.5
4717.5	80°	3871.1	2539.3	966.8	1057.1	1222.6	1512.3	1809.5	1802.0	1606.4	1501.0
1753.1	82.5°	1474.7	1000.7	688.4	744.9	884.1	1158.7	1433.3	1478.5	1282.8	1109.8
688.4	85°	568.1	428.9	425.1	447.7	515.4	767.4	1083.5	1121.1	966.8	820.1
191.9	87.5°	146.7	127.9	158.0	150.5	237.0	410.1	620.7	643.3	590.6	342.3
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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180°  
10394.4  
9916.6  
9190.5  
8528.4  
8129.7  
8016.8  
8107.1  
8235.0  
8235.0  
8046.9  
7697.0  
7238.1  
6707.6  
6120.8  
5605.4  
5372.1  
5029.8  
4563.3  
4179.6  
3923.8  
3735.7  
3626.6  
3355.7  
3227.8  
3073.5  
2923.1  
2746.3  
2558.2  
**2370.1**  
2151.9  
1956.2  
1843.4  
1395.7  
1109.8  
846.4  
489.1  
0.0

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