

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: P957480

Luminaire Tested: **GALN-SB9D-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957480  
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-SB9D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

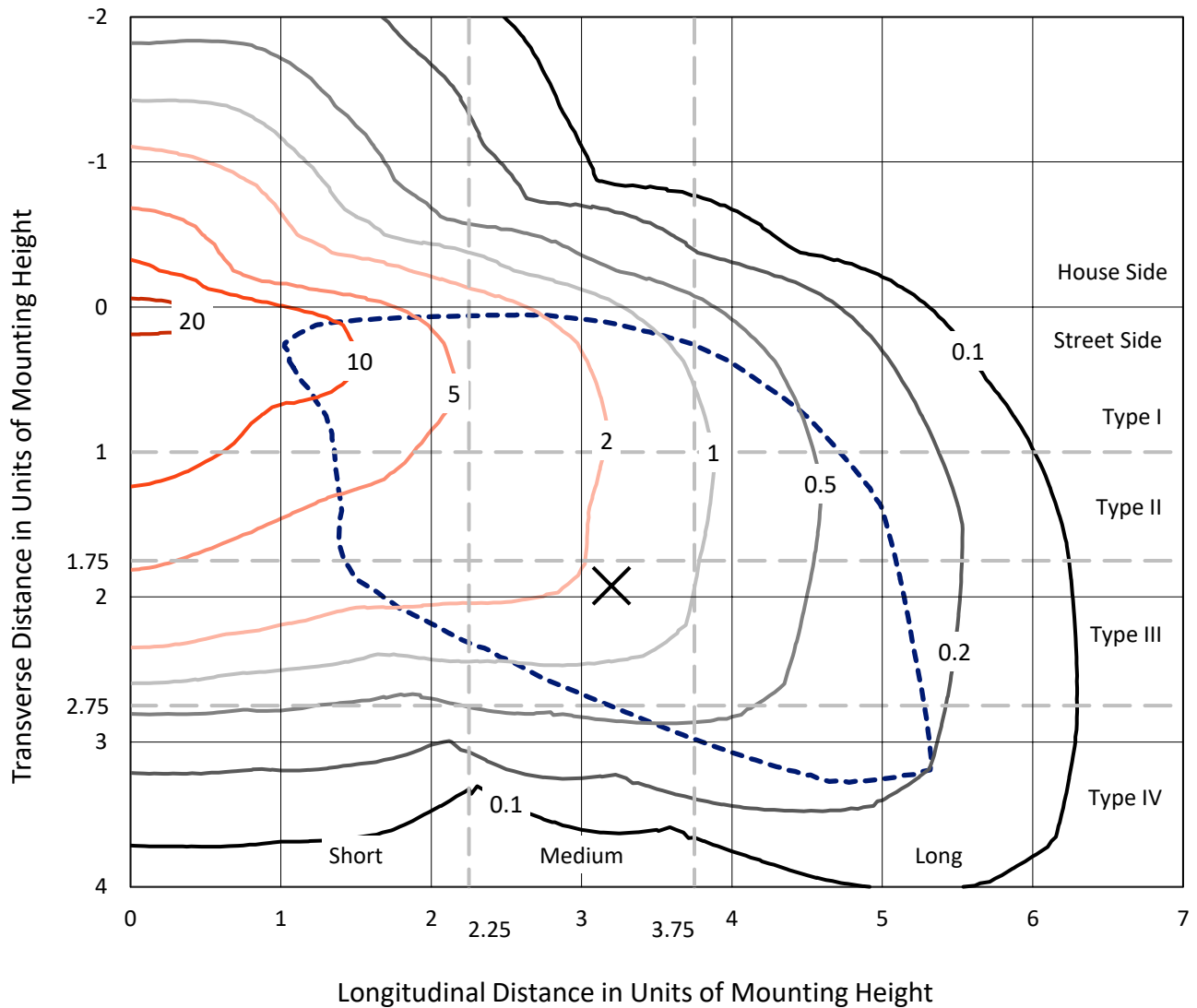
Lumens per Lamp: N/A  
Luminaire Lumens: 78771 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

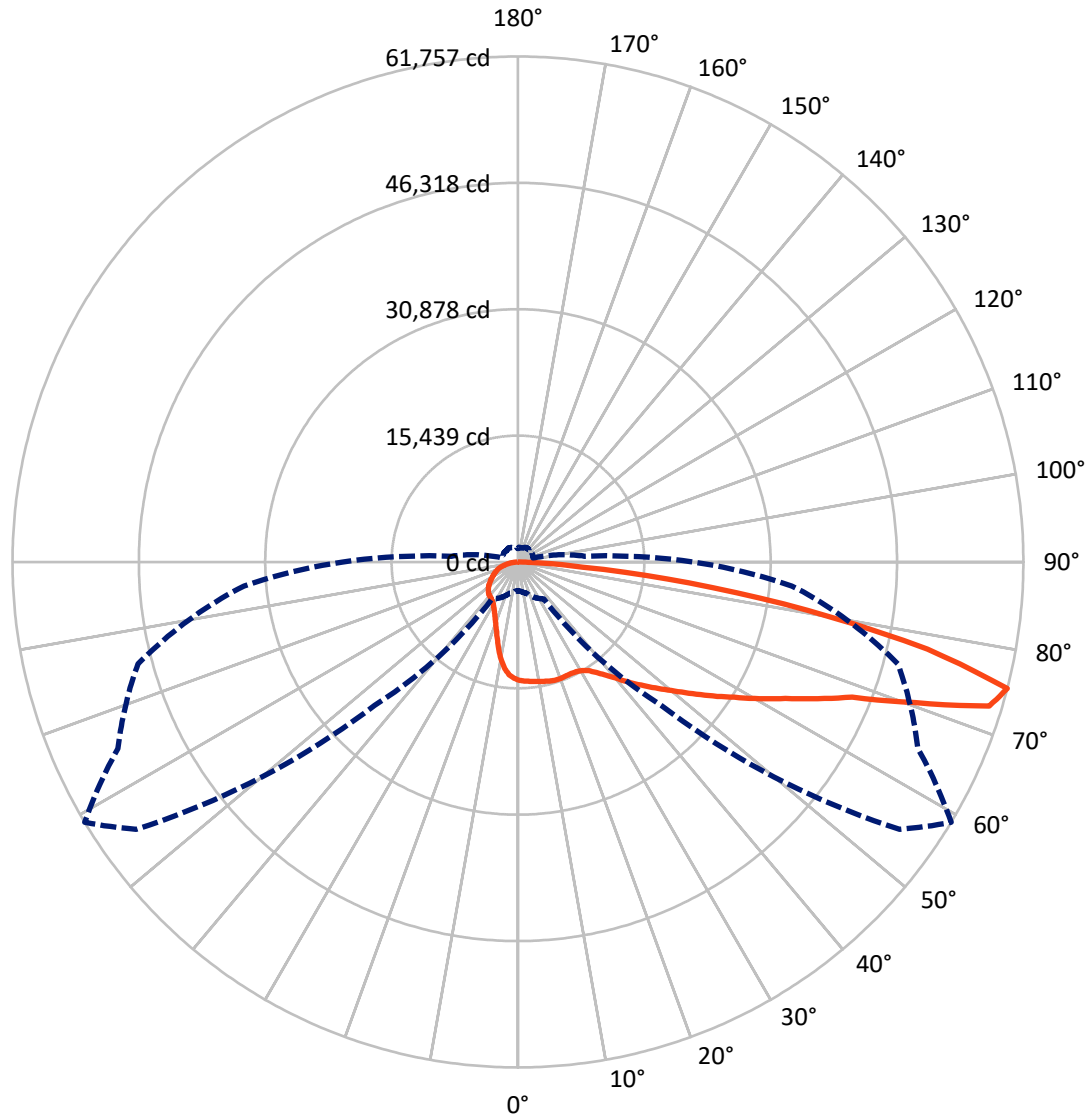
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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
<b>House Side</b>	Lumens	14774.0	0.0	14774.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	63997.0	0.0	63997.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	78771.0	0.0	78771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1296.4	1.6
10°-20°	3313.7	4.2
20°-30°	5033.3	6.4
30°-40°	7481.8	9.5
40°-50°	11126.8	14.1
50°-60°	15103.3	19.2
60°-70°	18438.6	23.4
70°-80°	14470.4	18.4
80°-90°	2506.6	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°	78771.0	100.0
0°-180°	78771.0	100.0

**Coefficient of Utilization**

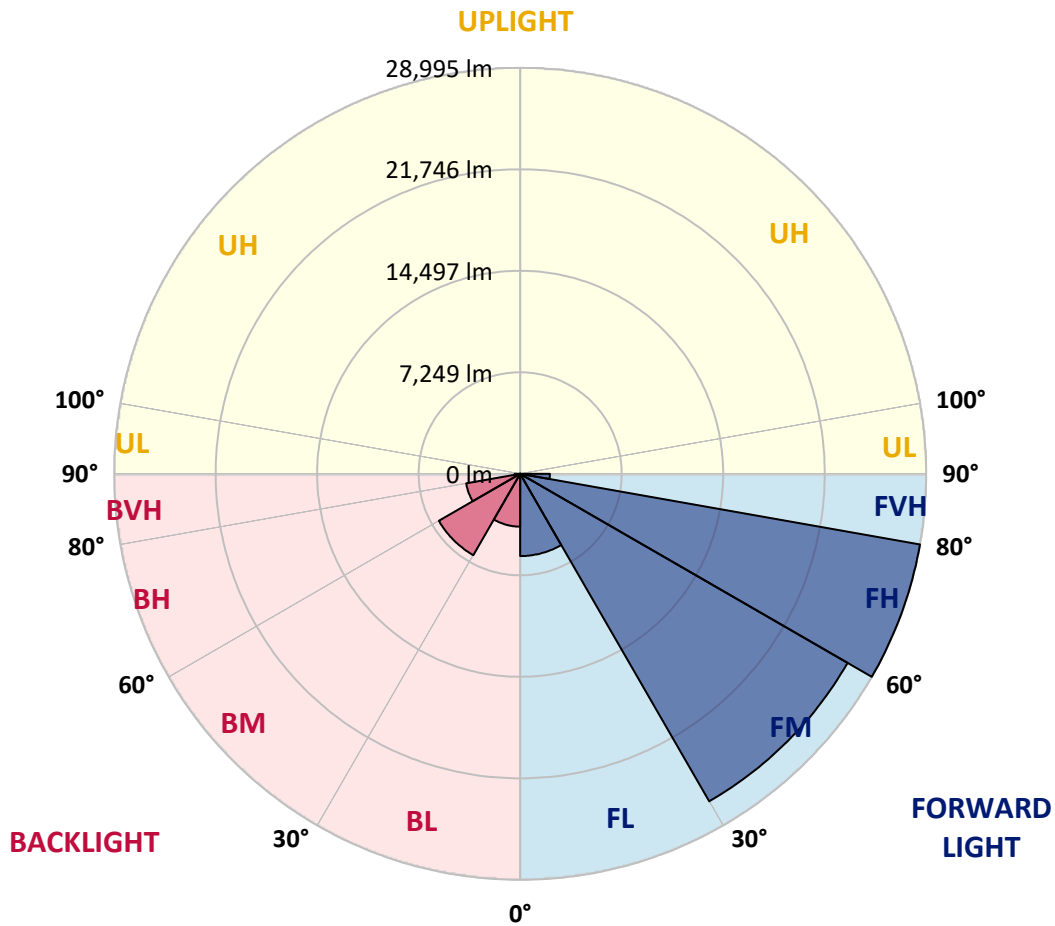


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5873.2	7.5			
FM (30°-60°)	27006.0	34.3			
FH (60°-80°)	28994.8	36.8			G5
FVH (80°-90°)	2122.9	2.7			G5
BL (0°-30°)	3770.2	4.8	B4/5000		
BM (30°-60°)	6705.9	8.5	B4/8500		
BH (60°-80°)	3914.2	5.0	B4/5000		G4/5000
BVH (80°-90°)	383.7	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°	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2
2.5°	14581.1	14530.3	14581.1	14559.9	14551.5	14534.5	14538.8	14568.4	14551.5	14572.7
5°	14483.7	14454.0	14504.9	14492.1	14547.2	14555.7	14610.8	14644.7	14665.9	14670.1
7.5°	14322.6	14293.0	14365.0	14424.3	14543.0	14576.9	14691.3	14746.4	14776.1	14826.9
10°	13733.6	13720.9	13898.9	14123.5	14403.2	14576.9	14750.6	14843.9	14890.5	15026.1
12.5°	12691.2	12708.2	12941.2	13373.4	13932.8	14492.1	14818.4	14954.0	15026.1	15195.6
15°	11695.4	11691.2	11945.4	12407.3	13191.2	14119.2	14852.3	15085.4	15208.3	15458.3
17.5°	11119.1	11102.2	11280.1	11631.9	12360.7	13547.2	14767.6	15157.4	15420.1	15733.7
20°	11013.2	10979.3	11072.5	11246.2	11763.2	12920.0	14547.2	15157.4	15589.6	15996.4
22.5°	11398.8	11343.7	11305.6	11284.4	11513.2	12403.1	14297.2	15106.6	15839.7	16373.6
25°	12174.2	12089.5	11894.6	11703.9	11636.1	12170.0	14076.9	15093.9	16212.6	16882.1
27.5°	13428.5	13322.6	12928.5	12470.9	12059.8	12288.7	13979.4	15170.1	16623.6	17420.2
30°	14983.7	14869.3	14373.5	13670.1	12932.8	12729.4	14102.3	15394.7	17149.0	18136.4
32.5°	16377.8	16250.7	15826.9	15110.8	14115.0	13492.1	14492.1	15822.7	17975.3	19132.2
35°	17615.2	17466.8	17085.5	16424.4	15564.2	14564.2	15195.6	16581.2	19149.1	20750.9
37.5°	18827.1	18653.3	18238.1	17538.9	16937.2	15992.2	16165.9	17555.8	20708.5	22717.1
40°	20183.1	19933.1	19428.8	18738.1	18153.3	17666.0	17441.4	18750.8	22293.3	24912.1
42.5°	21496.7	21259.4	20657.7	20068.6	19335.6	19195.7	18920.3	20149.2	24026.4	27323.2
45°	22912.0	22628.1	21899.2	21153.4	20691.6	20212.7	20352.6	21547.5	25725.7	29780.9
47.5°	24238.3	23920.5	23060.3	22229.8	21975.5	21068.7	21666.2	23085.7	27492.7	32272.6
50°	24954.5	24640.9	23924.7	23174.7	22975.6	22123.8	23090.0	24776.5	29344.5	34755.7
52.5°	25551.9	25212.9	24276.5	23861.2	23801.9	23272.2	24844.3	26708.8	31196.2	36950.7
55°	26187.6	25810.4	24615.5	24242.6	24513.8	24560.4	26924.9	28899.5	33154.0	39090.6
57.5°	26920.6	26441.8	24941.7	24564.6	25208.7	26068.9	29314.8	31170.8	35077.8	41073.8
60°	27611.3	27128.3	25568.9	25077.3	25958.7	27819.0	32056.4	33920.9	37255.8	42840.8
62.5°	27746.9	27348.6	26068.9	26064.7	26975.7	29861.4	35302.3	36696.5	39158.4	44586.6
65°	25399.4	25149.4	24390.9	26026.5	28433.4	32802.2	38916.9	40247.5	41578.0	46112.1
67.5°	19331.3	19365.2	19310.1	22467.1	27255.4	37027.0	44150.2	44048.5	44565.5	47824.1
70°	8839.4	9038.5	10335.2	15509.1	21835.7	37514.3	52803.1	51485.2	48315.6	50040.3
72.5°	4775.6	4928.2	5457.9	7513.0	13127.7	33353.1	59269.5	60205.9	53303.1	51531.9
75°	3504.4	3589.1	3957.8	4775.6	5512.9	24789.2	56951.6	61756.9	53926.0	48052.9
77.5°	2623.0	2661.1	2962.0	3784.1	2822.2	13068.4	45506.2	51146.2	46163.0	39480.5
80°	1902.6	1945.0	2169.6	2839.1	1978.9	4779.9	31247.1	35899.8	31615.8	25166.3
82.5°	1313.6	1330.6	1428.0	1932.3	1381.4	1856.0	17729.6	21051.7	17649.1	8830.9
85°	792.4	813.6	856.0	1127.2	783.9	881.4	7652.9	7915.6	5275.6	2110.3
87.5°	326.3	347.5	381.4	474.6	309.3	245.8	1262.8	1584.8	987.3	618.7
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°
14458.2	0°	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2	14458.2
14500.6	2.5°	14479.4	14449.8	14369.3	14259.1	14157.4	14030.3	13975.2	13928.6	13886.2	13805.7
14615.0	5°	14568.4	14487.9	14271.8	13992.1	13674.3	13326.8	12987.8	12754.8	12555.6	12407.3
14746.4	7.5°	14704.0	14551.5	14157.4	13585.3	12856.5	12110.7	11436.9	10958.1	10597.9	10466.5
14932.8	10°	14843.9	14661.6	13975.2	12966.7	11708.1	10559.8	9665.7	9174.1	8886.0	8792.7
15153.2	12.5°	15009.1	14742.2	13691.3	12106.4	10424.2	9165.6	8385.9	8097.8	7949.5	7898.6
15424.4	15°	15250.6	14810.0	13263.3	11030.1	9199.5	8148.7	7644.4	7445.2	7369.0	7364.7
15704.1	17.5°	15432.9	14822.7	12598.0	9877.5	8258.8	7534.2	7118.9	7042.7	7093.5	7169.8
15979.5	20°	15636.3	14708.3	11725.1	8826.6	7597.8	6996.1	6822.3	6873.2	6996.1	7106.2
16343.9	22.5°	15780.3	14500.6	10669.9	8008.8	7025.7	6686.7	6678.2	6784.2	6852.0	6907.1
16771.9	25°	15907.5	14148.9	9551.3	7322.3	6555.4	6500.3	6593.5	6559.6	6513.0	6559.6
17199.9	27.5°	16000.7	13593.8	8551.2	6720.6	6224.8	6373.2	6318.1	6241.8	6237.6	6263.0
17704.1	30°	15971.0	12852.2	7729.1	6148.6	5991.8	6135.9	6004.5	5991.8	5979.1	5991.8
18462.6	32.5°	15971.0	12009.0	7097.8	5754.5	5843.5	5788.4	5775.7	5746.0	5695.2	5690.9
19492.4	35°	16060.0	11165.7	6555.4	5542.6	5720.6	5589.2	5597.7	5525.7	5419.7	5368.9
20856.8	37.5°	16242.2	10487.7	6017.2	5440.9	5504.5	5500.2	5466.3	5343.4	5157.0	4996.0
22560.3	40°	16682.9	10288.6	5648.5	5394.3	5402.8	5453.6	5364.6	5127.3	4703.6	4440.9
24289.2	42.5°	17373.6	10623.3	5568.0	5279.9	5335.0	5385.8	5212.1	4661.2	4360.4	4203.6
26102.8	45°	18250.8	11208.1	5741.8	5114.6	5173.9	5262.9	4746.0	4483.2	4347.6	4351.9
27899.5	47.5°	19361.0	11822.5	6063.8	4970.6	4940.9	4991.7	4436.6	4275.6	4089.2	4135.8
29624.1	50°	20644.9	12445.4	6368.9	4775.6	4682.4	4517.1	4237.5	4084.9	3847.6	3737.4
31289.5	52.5°	22034.8	13047.2	6491.8	4538.3	4402.7	4212.0	4101.9	3915.4	3627.3	3445.1
32861.6	55°	23352.7	13593.8	6356.2	4254.4	4123.1	3974.7	3957.8	3843.4	3534.0	3279.8
34259.9	57.5°	24598.5	14051.4	6017.2	3966.3	3839.1	3750.2	3864.6	3809.5	3419.6	3093.4
35582.0	60°	25653.6	14365.0	5525.7	3673.9	3584.9	3538.3	3712.0	3695.1	3258.6	2894.2
36768.5	62.5°	26492.7	14487.9	4983.3	3394.2	3373.0	3288.3	3500.1	3500.1	3055.2	2699.3
37810.9	65°	27149.5	14369.3	4432.4	3118.8	3161.2	3034.0	3241.7	3216.2	2839.1	2525.5
39010.1	67.5°	27730.0	13979.4	3822.2	2847.6	2945.0	2784.0	2970.5	2911.1	2601.8	2351.8
40048.3	70°	27988.5	13072.6	3127.3	2576.4	2695.0	2538.2	2699.3	2589.1	2334.8	2165.3
38908.4	72.5°	25912.1	10864.9	2462.0	2292.5	2394.2	2267.0	2406.9	2279.8	2046.7	1970.4
33598.9	75°	21437.4	8152.9	1894.1	1983.1	2059.4	1961.9	2055.2	1961.9	1750.1	1805.2
24818.9	77.5°	15568.5	5504.5	1449.2	1656.9	1690.7	1639.9	1720.4	1614.5	1423.8	1411.1
12369.2	80°	7741.9	3224.7	1135.6	1309.4	1296.7	1262.8	1356.0	1305.1	1144.1	1211.9
3339.1	82.5°	2241.6	1381.4	826.3	919.5	894.1	902.6	970.4	995.8	1491.6	1478.9
1038.2	85°	703.4	542.4	495.8	512.7	487.3	500.0	572.1	1135.6	1050.9	614.4
322.0	87.5°	182.2	186.4	122.9	131.4	135.6	161.0	182.2	690.7	330.5	216.1
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>
14458.2
13767.5
12284.4
10237.7
8648.7
7911.4
7381.7
7199.5
7144.4
6936.7
6589.3
6305.4
6038.4
5746.0
5419.7
5051.1
4474.8
4203.6
4373.1
4254.4
3767.1
3440.8
3279.8
3076.4
2881.5
2686.6
2508.6
2334.8
2131.4
1906.9
1648.4
1347.5
1199.2
1512.8
665.3
228.8
0.0

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