

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: P957593

Luminaire Tested: **GALN-SB9D-927-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-927-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

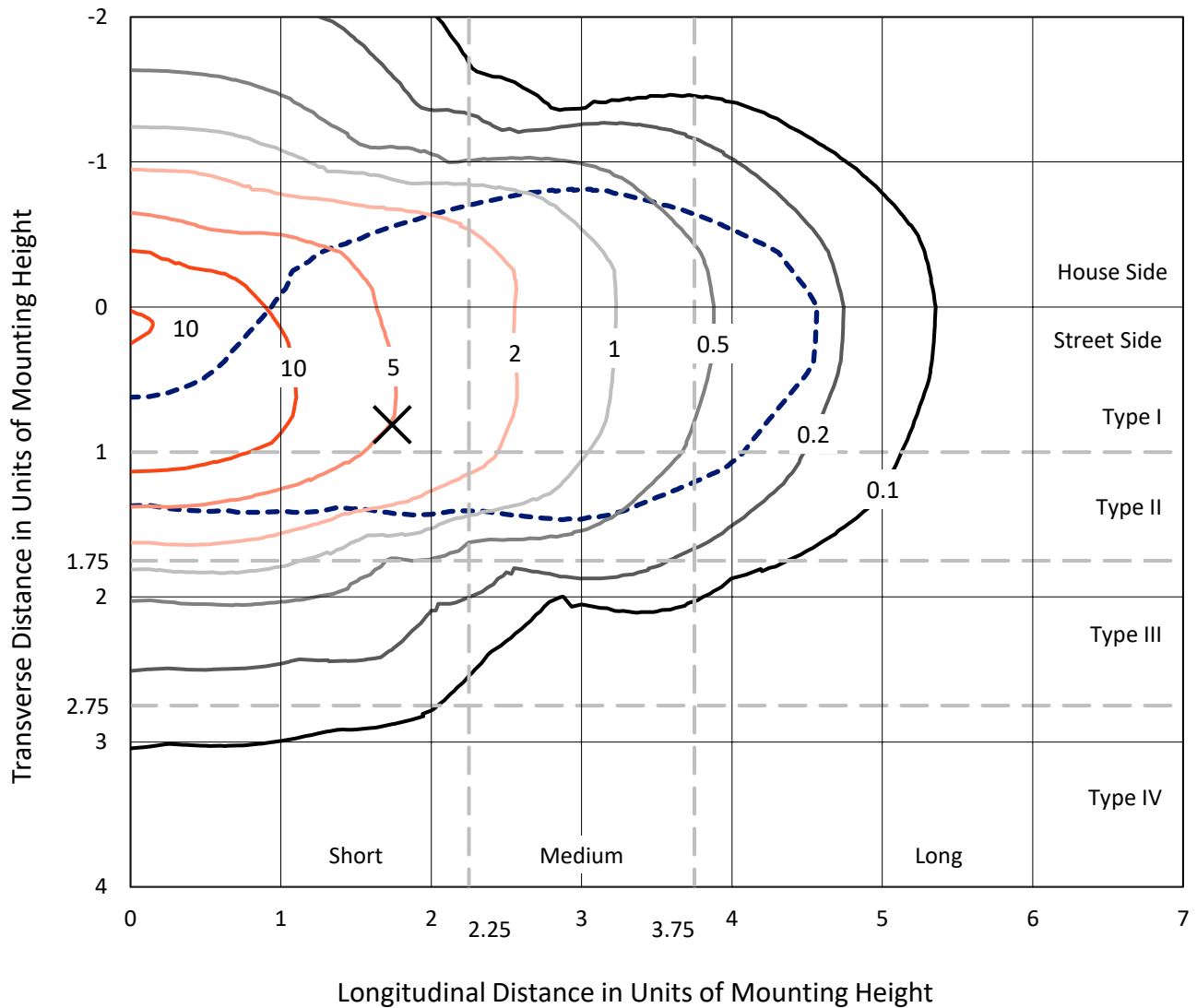
Lumens per Lamp: N/A  
Luminaire Lumens: 57174 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

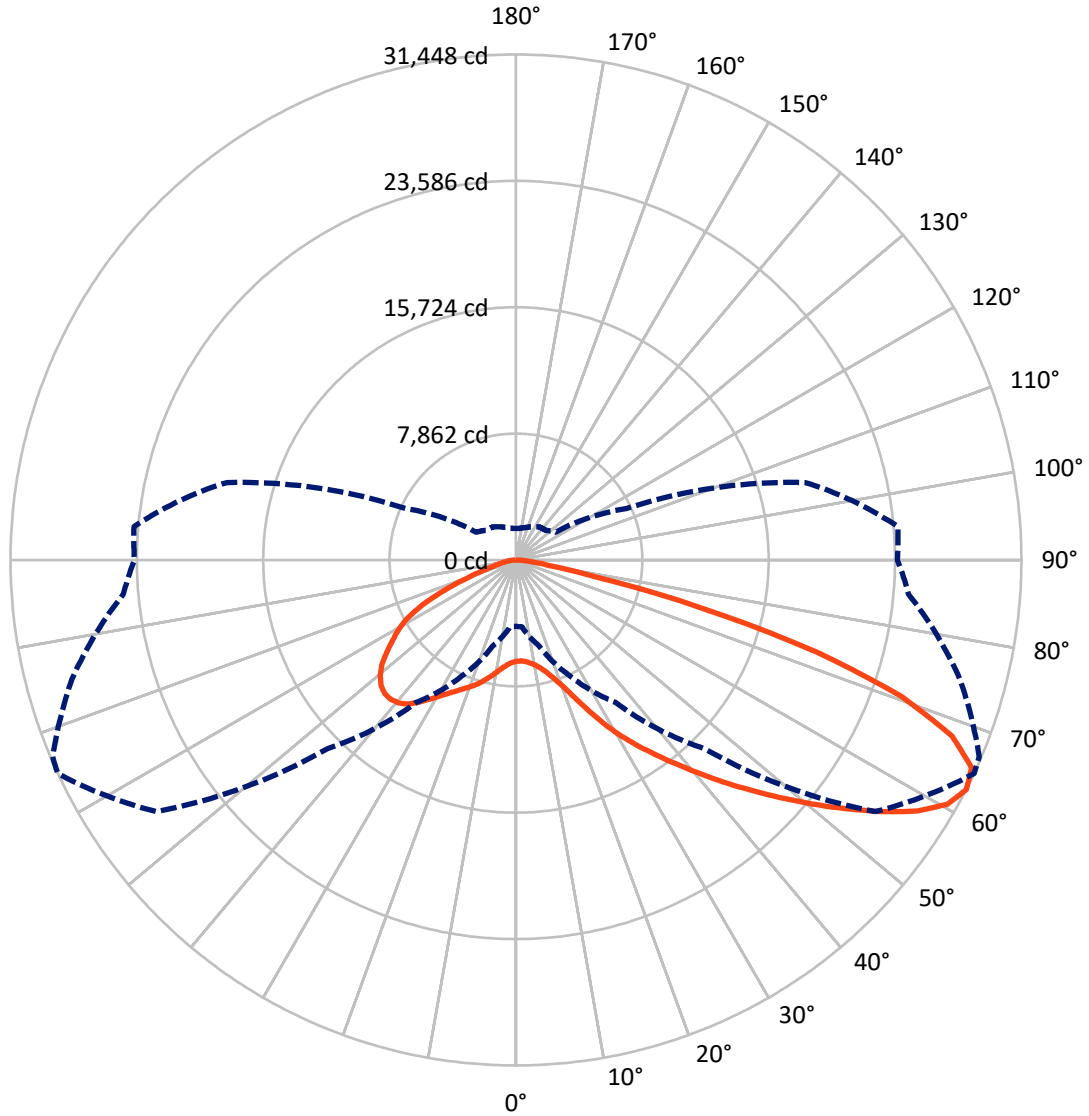
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18041.6	0.0	18041.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	39132.4	0.0	39132.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	57174.0	0.0	57174.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.1	1.1
10°-20°	2130.1	3.7
20°-30°	4318.9	7.6
30°-40°	7473.8	13.1
40°-50°	11310.2	19.8
50°-60°	13260.5	23.2
60°-70°	11117.3	19.4
70°-80°	6137.7	10.7
80°-90°	797.3	1.4
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°	57174.0	100.0
0°-180°	57174.0	100.0

**Coefficient of Utilization**

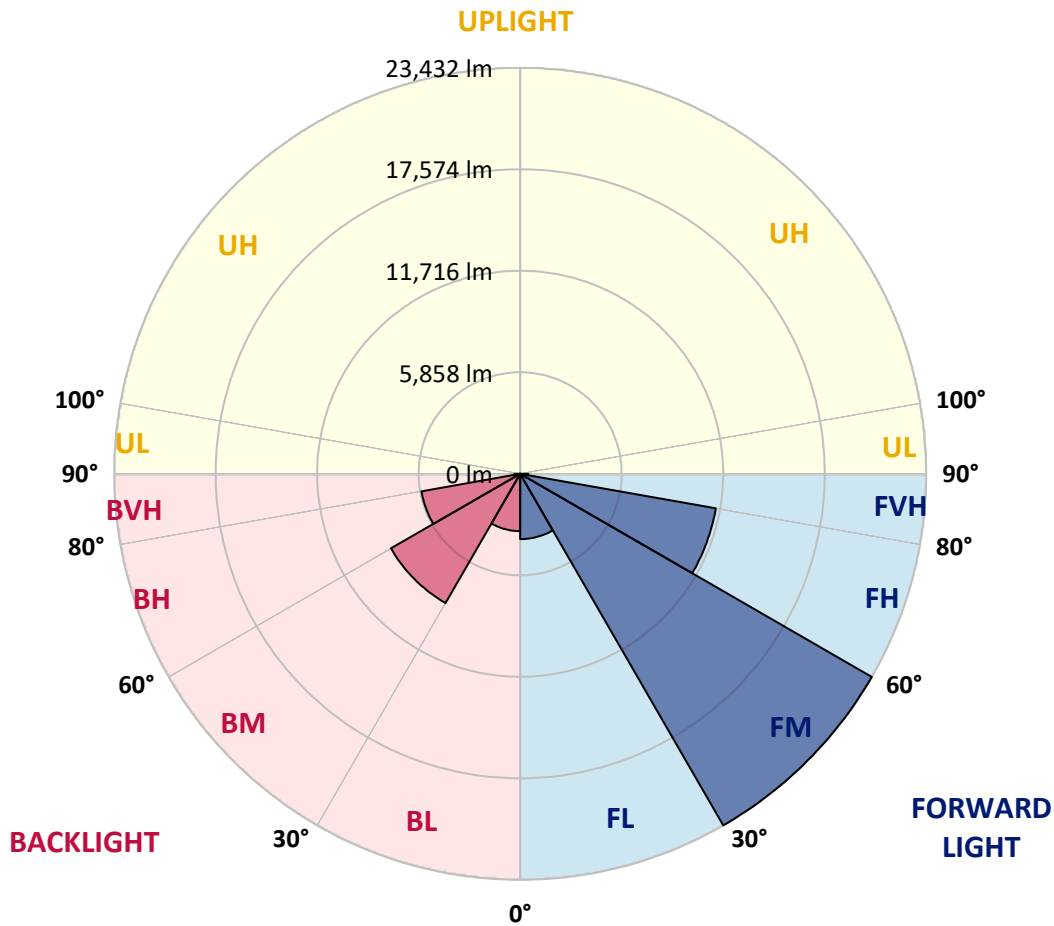


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3768.5	6.6			
FM	(30°-60°)	23431.8	41.0			
FH	(60°-80°)	11467.4	20.1			G4/12000
FVH	(80°-90°)	464.7	0.8			G3/500
BL	(0°-30°)	3308.6	5.8	B4/5000		
BM	(30°-60°)	8612.8	15.1	B5		
BH	(60°-80°)	5787.6	10.1	B5		G5
BVH	(80°-90°)	332.6	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3
2.5°	6258.8	6241.0	6255.8	6255.8	6261.8	6258.8	6279.6	6285.5	6294.4	6312.2
5°	6196.5	6193.5	6220.2	6244.0	6267.7	6288.5	6315.2	6353.7	6359.7	6380.4
7.5°	6175.7	6157.9	6199.5	6229.1	6285.5	6335.9	6407.1	6472.4	6499.1	6508.0
10°	6335.9	6306.3	6344.8	6362.6	6410.1	6460.5	6543.6	6647.4	6677.0	6712.6
12.5°	6608.8	6576.2	6632.5	6659.2	6703.7	6748.2	6804.6	6905.4	6920.3	6985.5
15°	6982.6	6944.0	6979.6	7012.2	7086.4	7127.9	7184.3	7282.2	7282.2	7332.6
17.5°	7489.8	7439.4	7466.1	7477.9	7525.4	7587.7	7682.6	7768.6	7813.1	7795.3
20°	8246.2	8183.9	8183.9	8124.6	8106.8	8157.2	8281.8	8400.4	8447.9	8355.9
22.5°	9382.3	9293.3	9242.9	9041.1	8961.1	8967.0	9091.6	9236.9	9275.5	9112.3
25°	10826.8	10687.4	10619.2	10322.6	10141.6	9984.4	10082.3	10269.2	10322.6	10120.9
27.5°	12271.4	12280.3	12215.0	11859.1	11559.5	11271.8	11221.3	11417.1	11473.5	11245.1
30°	14297.4	14086.7	13962.2	13535.0	13107.9	12704.5	12496.8	12576.9	12591.8	12318.9
32.5°	16044.5	15991.1	15724.1	15350.4	14801.6	14169.8	13822.8	13695.2	13671.5	13282.9
35°	18034.8	18005.2	17723.4	17278.4	16685.2	15807.2	15181.3	14816.4	14786.8	14241.0
37.5°	20057.8	20057.8	19782.0	19295.5	18681.5	17584.0	16631.8	16053.4	15958.5	15246.6
40°	21671.5	21573.6	21624.0	21419.3	20716.3	19550.6	18242.5	17403.0	17275.5	16421.2
42.5°	22588.0	22555.4	22858.0	23086.4	22798.6	21867.2	20016.3	18865.4	18687.4	17714.5
45°	22792.7	22757.1	23297.0	24133.5	24536.9	24154.2	21944.4	20404.9	20188.3	19067.1
47.5°	22321.1	22249.9	23041.9	24361.9	25655.1	26328.5	24032.6	22074.9	21760.5	20384.1
50°	20903.2	20835.0	22033.3	23786.4	26031.9	27805.7	26298.8	23845.7	23365.2	21796.0
52.5°	17821.3	17853.9	19731.5	22140.1	25536.5	28725.2	28250.6	25711.5	25133.1	23240.6
55°	13882.1	13953.3	16261.0	18912.8	23555.0	28585.8	29582.5	27633.6	27058.2	24599.2
57.5°	9939.9	10254.3	12416.7	15041.9	19749.3	26375.9	29873.2	29460.9	28903.2	26082.3
60°	6442.7	6499.1	8723.8	11369.7	15038.9	22448.6	29282.9	30846.1	30410.1	27595.1
62.5°	4129.0	4167.6	5523.2	7952.5	10823.9	16608.1	27295.5	31448.2	31314.8	28594.7
65°	3034.5	3004.8	3710.8	5256.2	7291.1	10242.5	23436.4	31157.5	31421.5	29220.6
67.5°	2533.2	2491.7	2838.7	3639.6	5371.9	5816.8	17340.7	29268.0	30235.0	29149.4
70°	2307.7	2272.2	2482.8	2702.3	4191.3	3894.7	8741.6	25444.5	26933.6	28339.6
72.5°	1954.8	1892.5	2180.2	2399.7	3259.9	2987.0	3612.9	19544.7	21360.0	25744.1
75°	1515.8	1474.2	1720.4	2112.0	2450.1	2331.5	2284.0	11868.0	13849.4	19909.5
77.5°	1201.3	1145.0	1370.4	1646.3	2203.9	1759.0	1664.1	5110.9	7074.5	12710.4
80°	904.7	854.3	1041.2	1302.2	1693.7	1325.9	1076.8	2085.3	2666.7	6439.7
82.5°	643.7	599.2	726.7	955.1	1139.0	1189.5	661.5	1168.7	1314.1	2482.8
85°	412.3	385.6	486.5	599.2	723.8	765.3	403.4	611.0	670.4	1023.4
87.5°	225.4	183.9	261.0	278.8	335.2	305.5	192.8	222.5	240.3	370.8
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°
6300.3	0°	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3	6300.3
6312.2	2.5°	6324.1	6333.0	6362.6	6371.5	6392.3	6419.0	6436.8	6454.6	6454.6	6472.4
6407.1	5°	6410.1	6430.8	6493.1	6525.8	6579.2	6632.5	6665.2	6703.7	6727.5	6739.3
6558.4	7.5°	6576.2	6608.8	6697.8	6754.2	6846.1	6920.3	6970.7	7024.1	7036.0	7068.6
6769.0	10°	6801.6	6840.2	6941.0	7047.8	7157.6	7249.5	7297.0	7335.6	7350.4	7356.3
7038.9	12.5°	7059.7	7116.0	7246.6	7377.1	7492.8	7572.9	7584.7	7575.8	7534.3	7498.7
7371.1	15°	7377.1	7427.5	7572.9	7715.2	7827.9	7842.8	7768.6	7721.2	7670.7	7661.8
7741.9	17.5°	7756.8	7783.5	7916.9	8056.4	8065.2	8014.8	7905.1	7860.6	7813.1	7780.5
8225.4	20°	8198.7	8189.8	8284.8	8344.1	8281.8	8127.5	7961.4	7887.3	7839.8	7801.3
8818.7	22.5°	8726.7	8658.5	8646.6	8631.8	8465.7	8142.4	7916.9	7822.0	7747.9	7694.5
9646.3	25°	9495.0	9234.0	9053.0	8952.2	8578.4	8062.3	7774.6	7564.0	7424.5	7332.6
10657.8	27.5°	10456.1	10017.0	9560.2	9314.0	8578.4	7899.1	7430.5	7089.4	6860.9	6766.0
11636.6	30°	11372.6	10912.9	10239.5	9750.1	8557.6	7632.2	6875.8	6401.2	6134.2	6039.3
12473.1	32.5°	12155.7	11654.4	10960.3	10227.6	8507.2	7199.1	6187.6	5662.6	5404.5	5291.8
13300.7	35°	12882.4	12348.5	11684.1	10752.7	8373.7	6564.3	5431.2	5030.8	4743.0	4562.1
14143.1	37.5°	13627.0	12992.2	12369.3	11227.3	8133.5	5822.8	4849.8	4508.7	4170.6	3927.3
15038.9	40°	14436.8	13677.4	13102.0	11509.1	7739.0	5116.8	4399.0	4087.5	3728.6	3470.5
16071.2	42.5°	15383.0	14499.1	13917.7	11654.4	7199.1	4615.5	4105.3	3799.8	3461.6	3251.0
17177.6	45°	16370.8	15403.8	14662.2	11651.5	6597.0	4381.2	4010.4	3707.8	3334.1	3114.6
18313.7	47.5°	17406.0	16350.0	15305.9	11461.6	6074.9	4413.8	3957.0	3509.1	3096.8	2883.2
19461.6	50°	18444.2	17385.2	15928.8	11105.7	5852.4	4342.6	3758.2	3230.3	2743.8	2551.0
20538.4	52.5°	19473.5	18485.7	16465.7	10598.4	5627.0	4078.6	3503.1	2868.4	2598.4	2465.0
21650.7	55°	20508.7	19574.3	17050.0	9859.8	5063.4	3770.1	3076.0	2731.9	2482.8	2361.1
22739.3	57.5°	21546.9	20832.0	17604.7	9121.2	4354.5	3390.4	2841.7	2565.8	2367.1	2263.3
23650.0	60°	22626.6	22270.6	18177.2	8442.0	3654.4	2904.0	2669.6	2432.3	2230.6	2114.9
24525.0	62.5°	23738.9	23854.6	18625.1	7566.9	3010.7	2607.3	2515.4	2272.2	2076.4	1966.6
25248.8	65°	24860.2	25382.2	18918.8	6353.7	2441.2	2325.5	2349.3	2097.1	1898.4	1803.5
25779.7	67.5°	25705.6	26482.7	18835.7	4808.3	2002.2	2058.6	2141.6	1913.2	1726.4	1652.2
25693.7	70°	25800.5	26352.2	18017.0	3292.5	1675.9	1797.6	1910.3	1732.3	1539.5	1486.1
24483.5	72.5°	24536.9	24572.5	15736.0	2150.5	1417.9	1578.0	1667.0	1548.4	1361.5	1308.1
21419.3	75°	21223.6	20321.8	11553.6	1417.9	1186.5	1355.6	1438.6	1355.6	1174.6	1186.5
16026.7	77.5°	16080.1	14392.3	7015.2	1008.5	990.7	1139.0	1251.8	1192.4	1038.2	1165.7
8059.3	80°	8284.8	7786.4	3129.4	753.4	783.1	910.6	1029.3	952.2	821.7	783.1
1800.5	82.5°	1898.4	2206.9	1234.0	539.9	566.6	655.5	786.1	714.9	590.3	498.3
750.5	85°	664.4	726.7	545.8	338.2	332.2	409.3	533.9	477.6	400.4	320.4
317.4	87.5°	210.6	275.9	204.7	136.4	142.4	183.9	246.2	225.4	186.9	121.6
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°  
6300.3  
6472.4  
6745.3  
7056.7  
7341.5  
7498.7  
7661.8  
7783.5  
7804.2  
7712.3  
7368.2  
6813.5  
6095.7  
5348.2  
4621.4  
3992.6  
3520.9  
3292.5  
3150.2  
2912.9  
2562.8  
2465.0  
2349.3  
2245.5  
2106.0  
1963.7  
1800.5  
1655.2  
1489.1  
1305.2  
1145.0  
1026.3  
714.9  
492.4  
338.2  
127.5  
0.0

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