

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: P956052

Luminaire Tested: **GALN-SB8D-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956052  
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-SB8D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

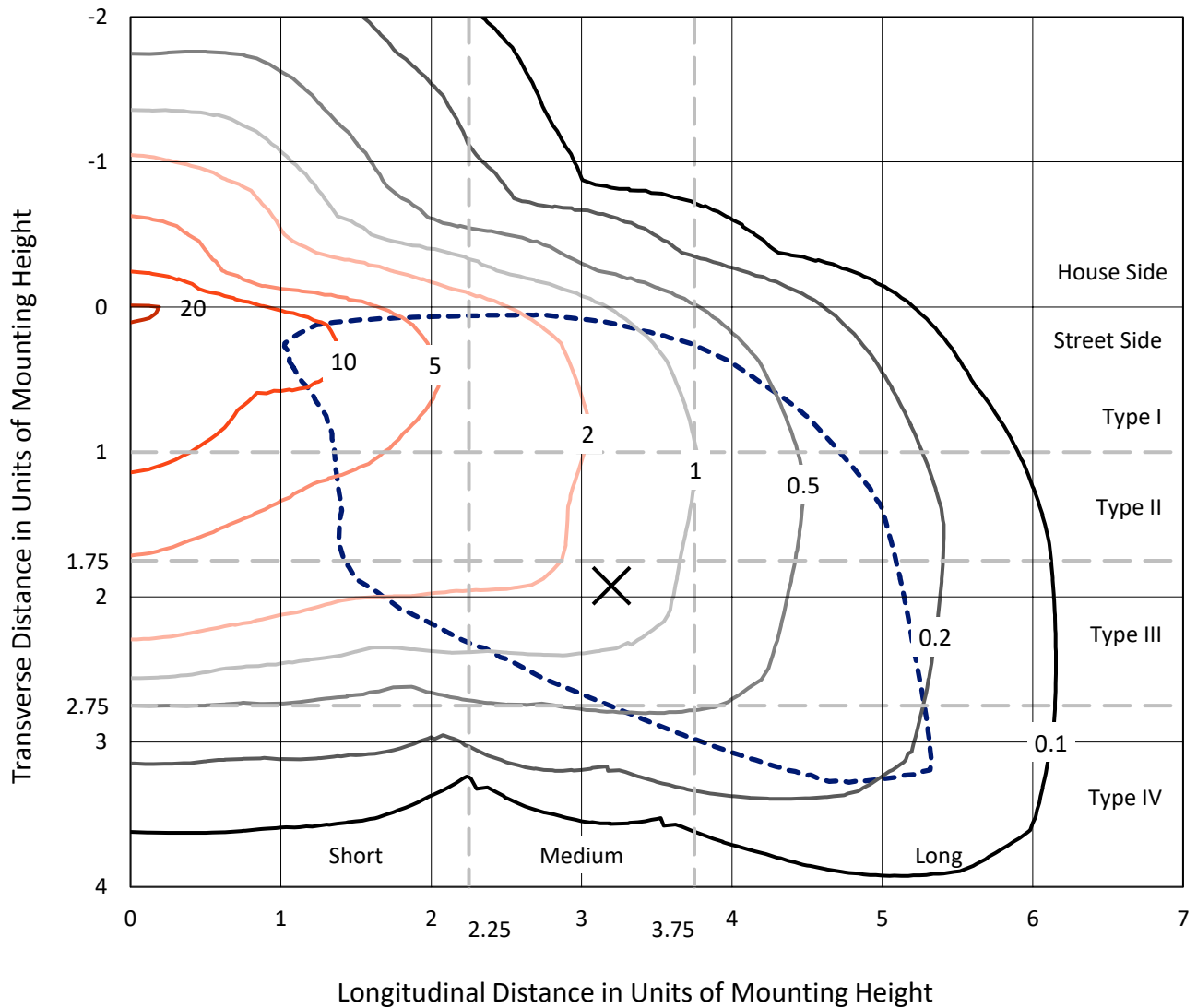
Lumens per Lamp: N/A  
Luminaire Lumens: 69930 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

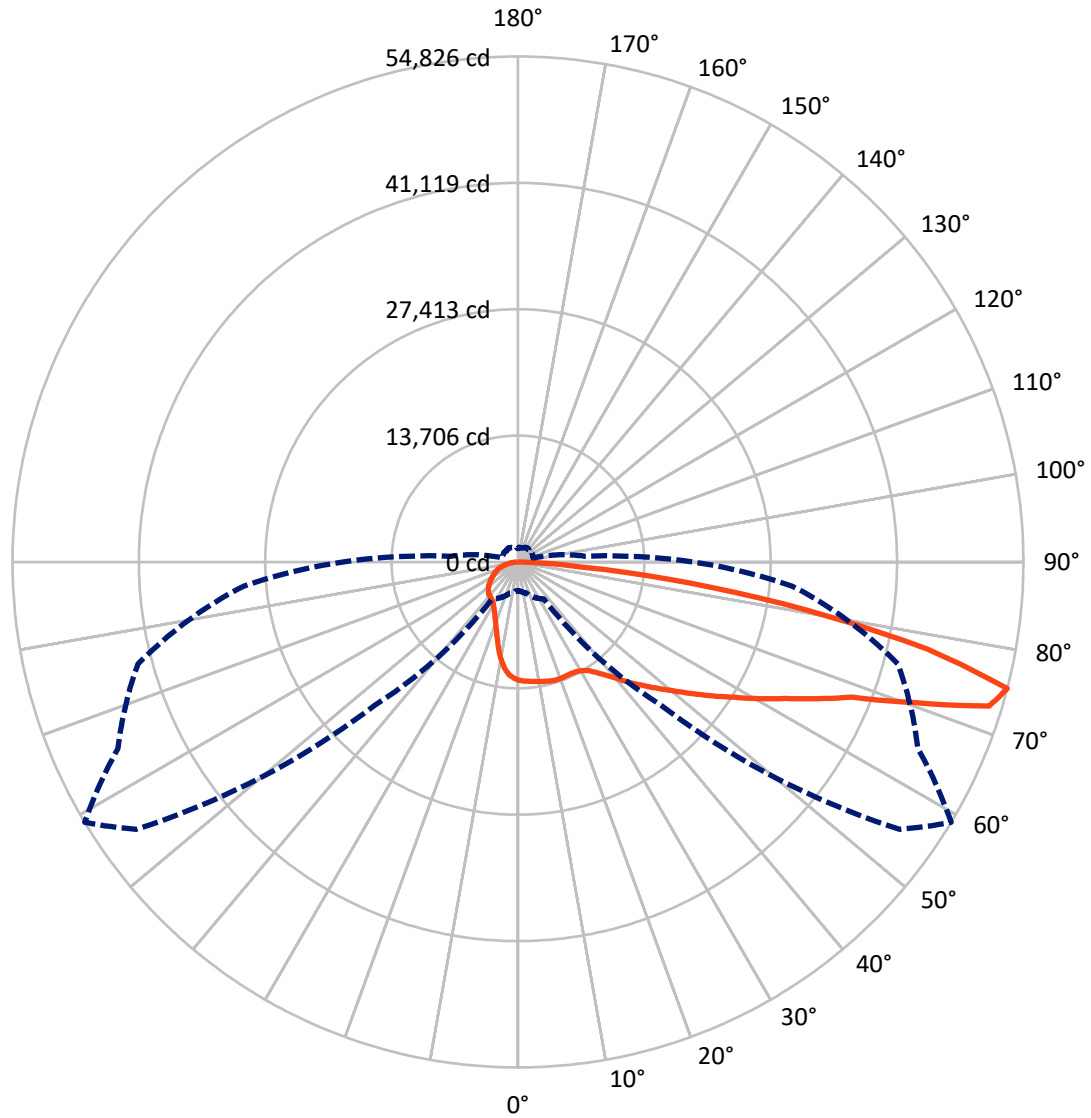
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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	13115.9	0.0	13115.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	56814.1	0.0	56814.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	69930.0	0.0	69930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1150.9	1.6
10°-20°	2941.8	4.2
20°-30°	4468.4	6.4
30°-40°	6642.1	9.5
40°-50°	9878.0	14.1
50°-60°	13408.2	19.2
60°-70°	16369.2	23.4
70°-80°	12846.3	18.4
80°-90°	2225.3	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°	69930.0	100.0
0°-180°	69930.0	100.0

**Coefficient of Utilization**



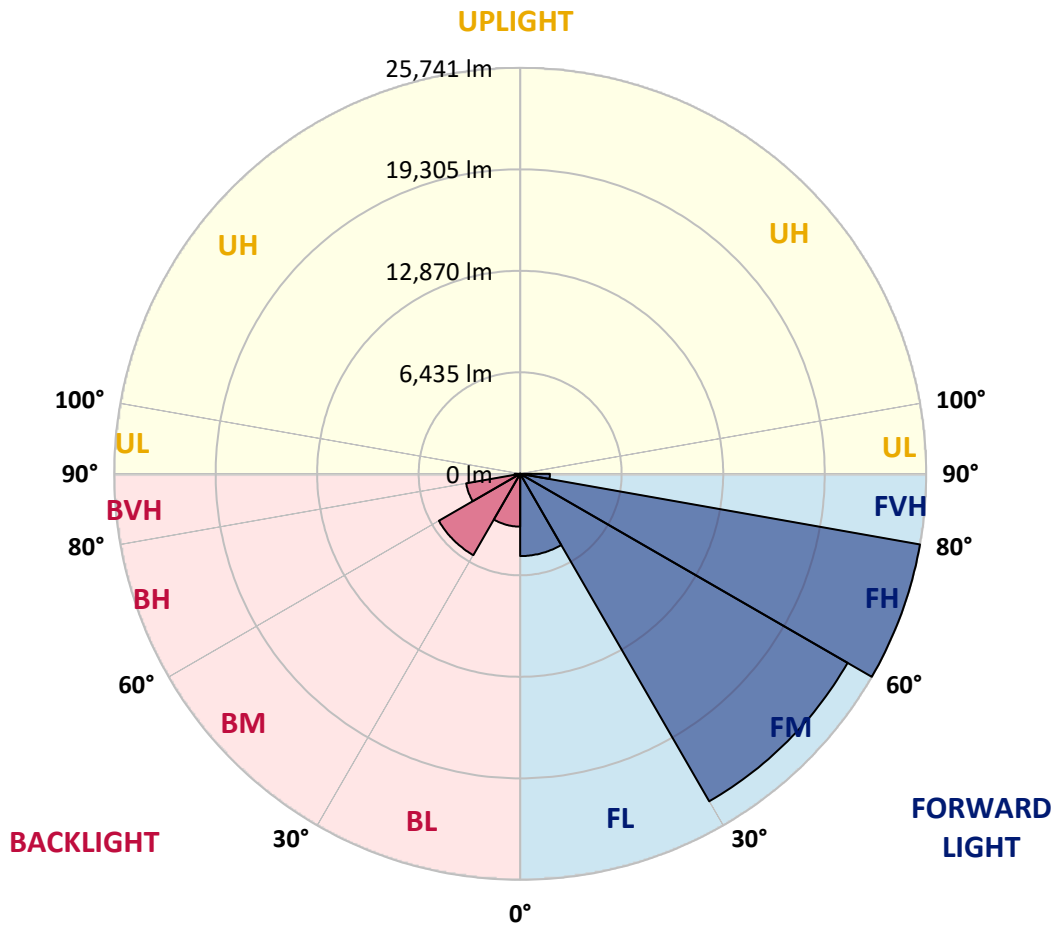
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5214.0	7.5			
FM (30°-60°)	23974.9	34.3			
FH (60°-80°)	25740.5	36.8			G5
FVH (80°-90°)	1884.7	2.7			G5
BL (0°-30°)	3347.0	4.8	B4/5000		
BM (30°-60°)	5953.3	8.5	B4/8500		
BH (60°-80°)	3474.9	5.0	B4/5000		G4/5000
BVH (80°-90°)	340.6	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°	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5
2.5°	12944.6	12899.4	12944.6	12925.8	12918.3	12903.2	12907.0	12933.3	12918.3	12937.1
5°	12858.1	12831.7	12876.9	12865.6	12914.5	12922.0	12970.9	13001.0	13019.8	13023.6
7.5°	12715.1	12688.8	12752.7	12805.4	12910.7	12940.8	13042.4	13091.3	13117.6	13162.8
10°	12192.2	12180.9	12338.9	12538.3	12786.6	12940.8	13095.1	13177.8	13219.2	13339.6
12.5°	11266.8	11281.8	11488.7	11872.5	12369.0	12865.6	13155.3	13275.6	13339.6	13490.1
15°	10382.8	10379.0	10604.7	11014.8	11710.7	12534.5	13185.3	13392.3	13501.3	13723.3
17.5°	9871.1	9856.1	10014.1	10326.3	10973.4	12026.7	13110.1	13456.2	13689.4	13967.8
20°	9777.1	9747.0	9829.8	9984.0	10442.9	11469.9	12914.5	13456.2	13839.9	14201.1
22.5°	10119.4	10070.5	10036.7	10017.9	10221.0	11011.0	12692.5	13411.1	14061.9	14535.9
25°	10807.8	10732.6	10559.6	10390.3	10330.1	10804.1	12496.9	13399.8	14392.9	14987.3
27.5°	11921.4	11827.3	11477.5	11071.2	10706.3	10909.4	12410.4	13467.5	14757.8	15465.0
30°	13302.0	13200.4	12760.3	12135.8	11481.2	11300.7	12519.5	13666.9	15224.3	16100.8
32.5°	14539.6	14426.8	14050.6	13414.8	12530.8	11977.8	12865.6	14046.8	15957.8	16984.8
35°	15638.1	15506.4	15167.9	14581.0	13817.3	12929.5	13490.1	14720.2	16999.9	18421.9
37.5°	16714.0	16559.7	16191.1	15570.4	15036.2	14197.3	14351.5	15585.4	18384.3	20167.4
40°	17917.8	17695.8	17248.2	16635.0	16115.8	15683.2	15483.9	16646.3	19791.2	22116.0
42.5°	19084.0	18873.3	18339.1	17816.2	17165.4	17041.3	16796.7	17887.7	21329.8	24256.5
45°	20340.4	20088.4	19441.3	18779.2	18369.2	17944.1	18068.3	19129.1	22838.3	26438.4
47.5°	21517.9	21235.7	20472.1	19734.8	19509.1	18704.0	19234.4	20494.7	24407.0	28650.4
50°	22153.6	21875.3	21239.5	20573.7	20396.9	19640.7	20498.4	21995.6	26050.9	30854.8
52.5°	22684.1	22383.1	21551.7	21183.1	21130.4	20660.2	22055.8	23711.1	27694.9	32803.5
55°	23248.3	22913.5	21852.7	21521.7	21762.4	21803.8	23902.9	25655.9	29432.9	34703.2
57.5°	23899.2	23474.1	22142.4	21807.6	22379.4	23143.0	26024.6	27672.3	31140.7	36463.8
60°	24512.3	24083.5	22699.1	22262.7	23045.2	24696.7	28458.5	30113.8	33074.3	38032.5
62.5°	24632.7	24279.1	23143.0	23139.3	23948.1	26509.9	31340.1	32577.8	34763.4	39582.4
65°	22548.6	22326.7	21653.3	23105.4	25242.1	29120.6	34549.0	35730.2	36911.5	40936.7
67.5°	17161.6	17191.7	17142.8	19945.4	24196.3	32871.2	39194.9	39104.6	39563.6	42456.4
70°	7847.3	8024.1	9175.2	13768.4	19384.9	33303.8	46876.6	45706.7	42892.8	44423.9
72.5°	4239.6	4375.1	4845.3	6669.8	11654.3	29609.7	52617.3	53448.6	47320.5	45748.1
75°	3111.1	3186.3	3513.6	4239.6	4894.2	22006.9	50559.5	54825.5	47873.5	42659.6
77.5°	2328.6	2362.5	2629.5	3359.3	2505.4	11601.6	40398.7	45405.8	40981.8	35049.3
80°	1689.1	1726.7	1926.1	2520.5	1756.8	4243.4	27740.0	31870.6	28067.3	22341.7
82.5°	1166.2	1181.2	1267.7	1715.4	1226.4	1647.7	15739.7	18689.0	15668.2	7839.7
85°	703.5	722.3	759.9	1000.7	695.9	782.5	6793.9	7027.2	4683.5	1873.4
87.5°	289.7	308.5	338.6	421.3	274.6	218.2	1121.0	1406.9	876.5	549.2
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°
12835.5	0°	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5	12835.5
12873.1	2.5°	12854.3	12828.0	12756.5	12658.7	12568.4	12455.5	12406.6	12365.3	12327.6	12256.2
12974.7	5°	12933.3	12861.8	12670.0	12421.7	12139.5	11831.1	11530.1	11323.2	11146.4	11014.8
13091.3	7.5°	13053.7	12918.3	12568.4	12060.6	11413.5	10751.4	10153.3	9728.2	9408.4	9291.8
13256.8	10°	13177.8	13016.1	12406.6	11511.3	10394.0	9374.6	8580.8	8144.4	7888.6	7805.9
13452.4	12.5°	13324.5	13087.5	12154.6	10747.7	9254.2	8136.9	7444.7	7188.9	7057.3	7012.1
13693.2	15°	13539.0	13147.7	11774.6	9792.1	8167.0	7234.1	6786.4	6609.6	6541.9	6538.1
13941.5	17.5°	13700.7	13159.0	11184.0	8768.9	7331.9	6688.6	6319.9	6252.2	6297.4	6365.1
14186.0	20°	13881.3	13057.4	10409.1	7836.0	6745.0	6210.8	6056.6	6101.8	6210.8	6308.7
14509.5	22.5°	14009.2	12873.1	9472.4	7109.9	6237.2	5936.2	5928.7	6022.8	6082.9	6131.8
14889.5	25°	14122.1	12560.9	8479.3	6500.5	5819.6	5770.7	5853.5	5823.4	5782.0	5823.4
15269.4	27.5°	14204.8	12068.1	7591.5	5966.3	5526.2	5657.9	5608.9	5541.2	5537.5	5560.0
15717.1	30°	14178.5	11409.7	6861.6	5458.5	5319.3	5447.2	5330.6	5319.3	5308.0	5319.3
16390.5	32.5°	14178.5	10661.1	6301.1	5108.6	5187.6	5138.7	5127.4	5101.1	5056.0	5052.2
17304.6	35°	14257.5	9912.5	5819.6	4920.5	5078.5	4961.9	4969.4	4905.5	4811.4	4766.3
18515.9	37.5°	14419.2	9310.6	5341.9	4830.2	4886.7	4882.9	4852.8	4743.7	4578.2	4435.2
20028.2	40°	14810.5	9133.8	5014.6	4788.9	4796.4	4841.5	4762.5	4551.9	4175.7	3942.4
21563.0	42.5°	15423.7	9431.0	4943.1	4687.3	4736.2	4781.3	4627.1	4138.1	3871.0	3731.8
23173.1	45°	16202.4	9950.1	5097.3	4540.6	4593.2	4672.2	4213.3	3980.1	3859.7	3863.4
24768.1	47.5°	17188.0	10495.6	5383.2	4412.7	4386.3	4431.5	3938.7	3795.7	3630.2	3671.6
26299.2	50°	18327.8	11048.6	5654.1	4239.6	4156.9	4010.2	3761.9	3626.4	3415.8	3318.0
27777.6	52.5°	19561.7	11582.8	5763.2	4029.0	3908.6	3739.3	3641.5	3476.0	3220.2	3058.4
29173.3	55°	20731.7	12068.1	5642.8	3776.9	3660.3	3528.6	3513.6	3412.0	3137.4	2911.7
30414.7	57.5°	21837.6	12474.4	5341.9	3521.1	3408.3	3329.3	3430.8	3381.9	3035.8	2746.2
31588.4	60°	22774.4	12752.7	4905.5	3261.5	3182.5	3141.2	3295.4	3280.3	2892.9	2569.4
32641.7	62.5°	23519.2	12861.8	4424.0	3013.3	2994.4	2919.2	3107.3	3107.3	2712.3	2396.3
33567.2	65°	24102.3	12756.5	3934.9	2768.7	2806.4	2693.5	2877.8	2855.3	2520.5	2242.1
34631.8	67.5°	24617.7	12410.4	3393.2	2528.0	2614.5	2471.5	2637.1	2584.4	2309.8	2087.8
35553.4	70°	24847.1	11605.4	2776.3	2287.2	2392.5	2253.4	2396.3	2298.5	2072.8	1922.3
34541.5	72.5°	23003.8	9645.4	2185.6	2035.2	2125.5	2012.6	2136.7	2023.9	1817.0	1749.3
29827.9	75°	19031.3	7237.8	1681.6	1760.6	1828.3	1741.7	1824.5	1741.7	1553.7	1602.6
22033.3	77.5°	13821.1	4886.7	1286.6	1470.9	1501.0	1455.8	1527.3	1433.3	1264.0	1252.7
10980.9	80°	6872.9	2862.8	1008.2	1162.4	1151.1	1121.0	1203.8	1158.7	1015.7	1075.9
2964.4	82.5°	1990.0	1226.4	733.6	816.3	793.8	801.3	861.5	884.0	1324.2	1312.9
921.7	85°	624.5	481.5	440.1	455.2	432.6	443.9	507.9	1008.2	932.9	545.5
285.9	87.5°	161.8	165.5	109.1	116.6	120.4	143.0	161.8	613.2	293.4	191.9
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>
12835.5
12222.3
10905.7
9088.7
7678.0
7023.4
6553.2
6391.4
6342.5
6158.2
5849.7
5597.7
5360.7
5101.1
4811.4
4484.1
3972.5
3731.8
3882.2
3776.9
3344.3
3054.6
2911.7
2731.1
2558.1
2385.0
2227.0
2072.8
1892.2
1692.8
1463.4
1196.3
1064.6
1343.0
590.6
203.1
0.0

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