

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: P957517

Luminaire Tested: **GALN-SB9D-835-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-835-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

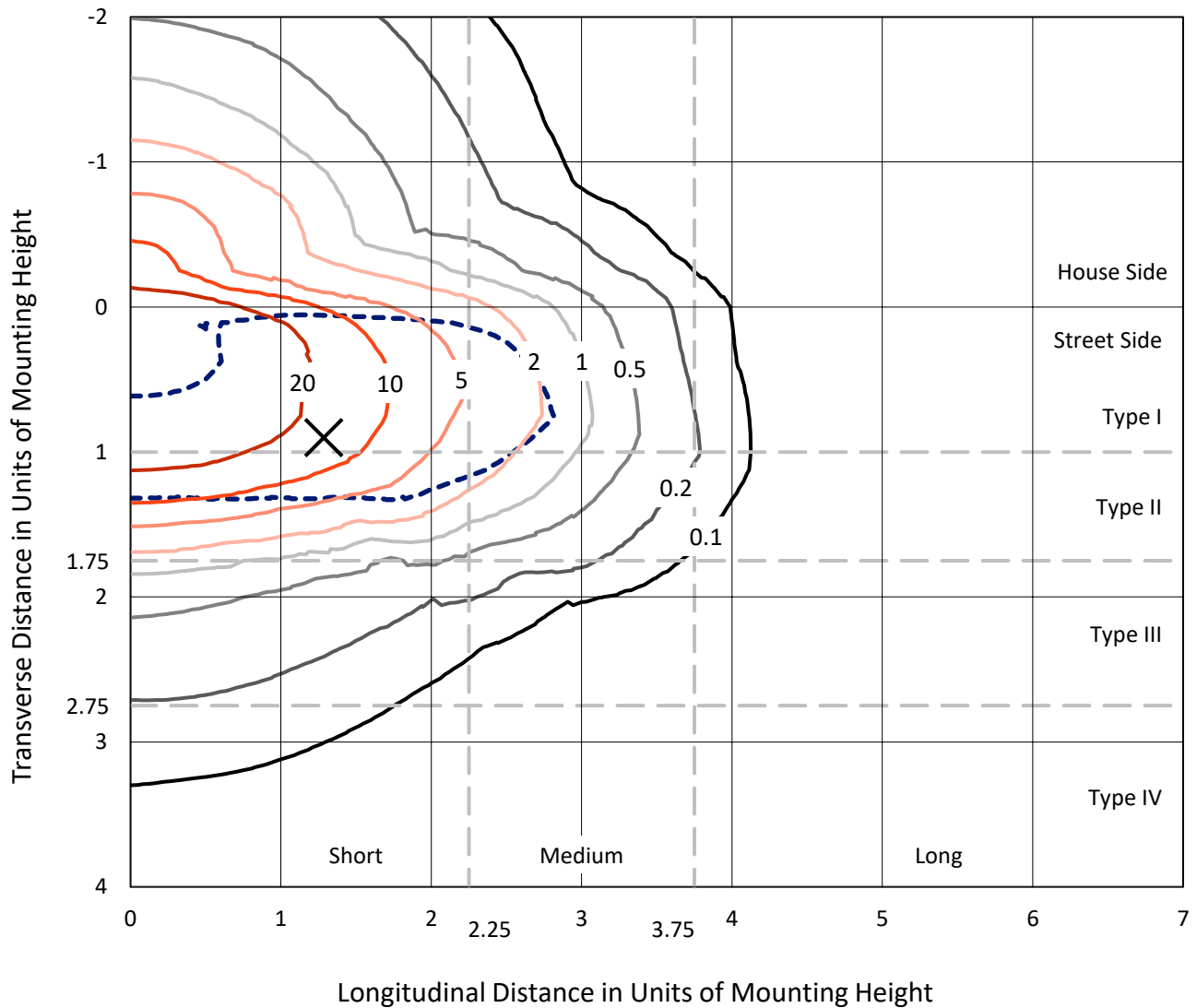
Lumens per Lamp: N/A  
Luminaire Lumens: 87435 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

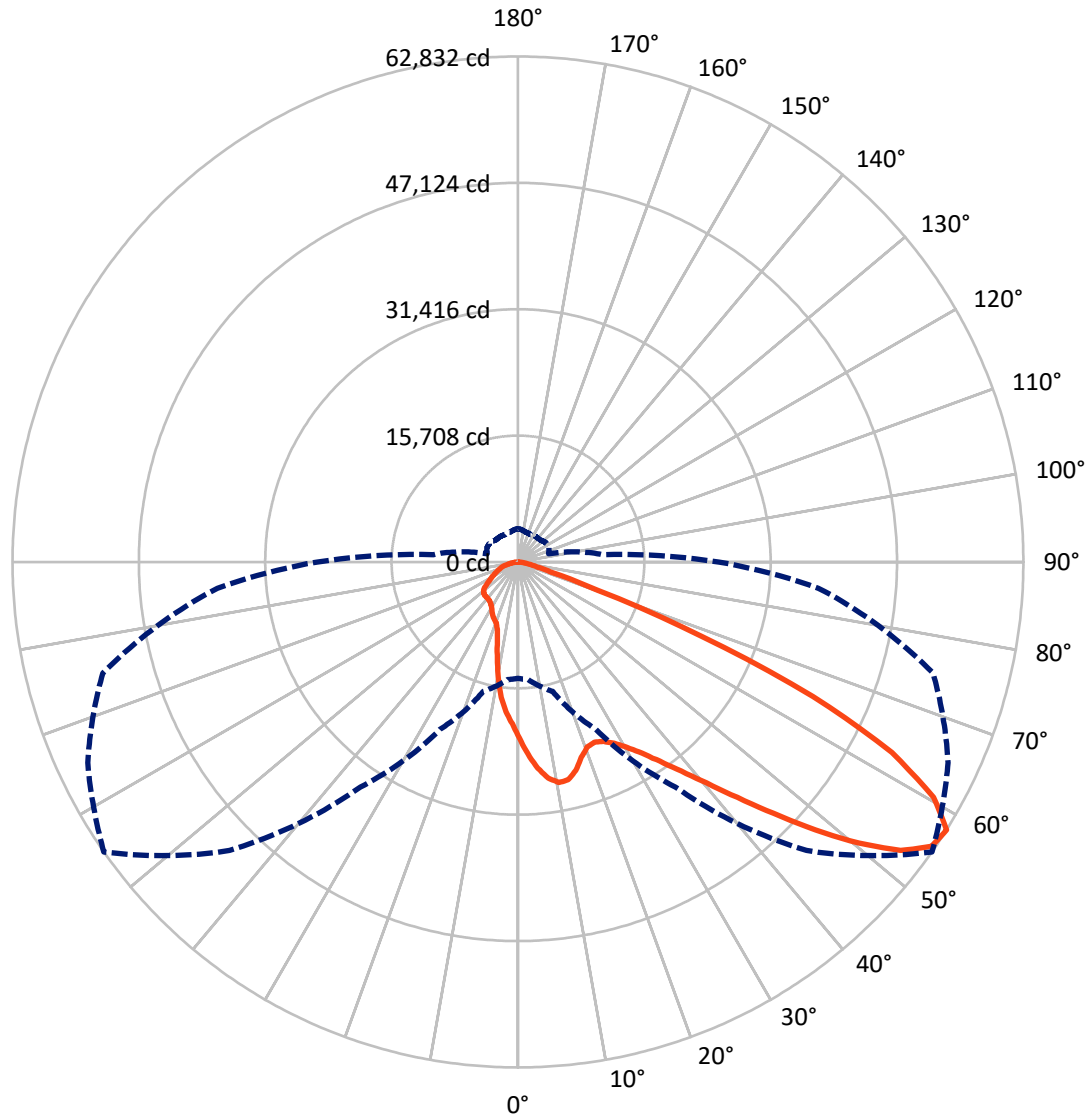
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 42.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15820.9	0.0	15820.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	71614.1	0.0	71614.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	87435.0	0.0	87435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2033.0	2.3
10°-20°	5131.3	5.9
20°-30°	8188.1	9.4
30°-40°	12963.8	14.8
40°-50°	19842.4	22.7
50°-60°	21253.1	24.3
60°-70°	13370.4	15.3
70°-80°	3953.9	4.5
80°-90°	699.1	0.8
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°	87435.0	100.0
0°-180°	87435.0	100.0

**Coefficient of Utilization**



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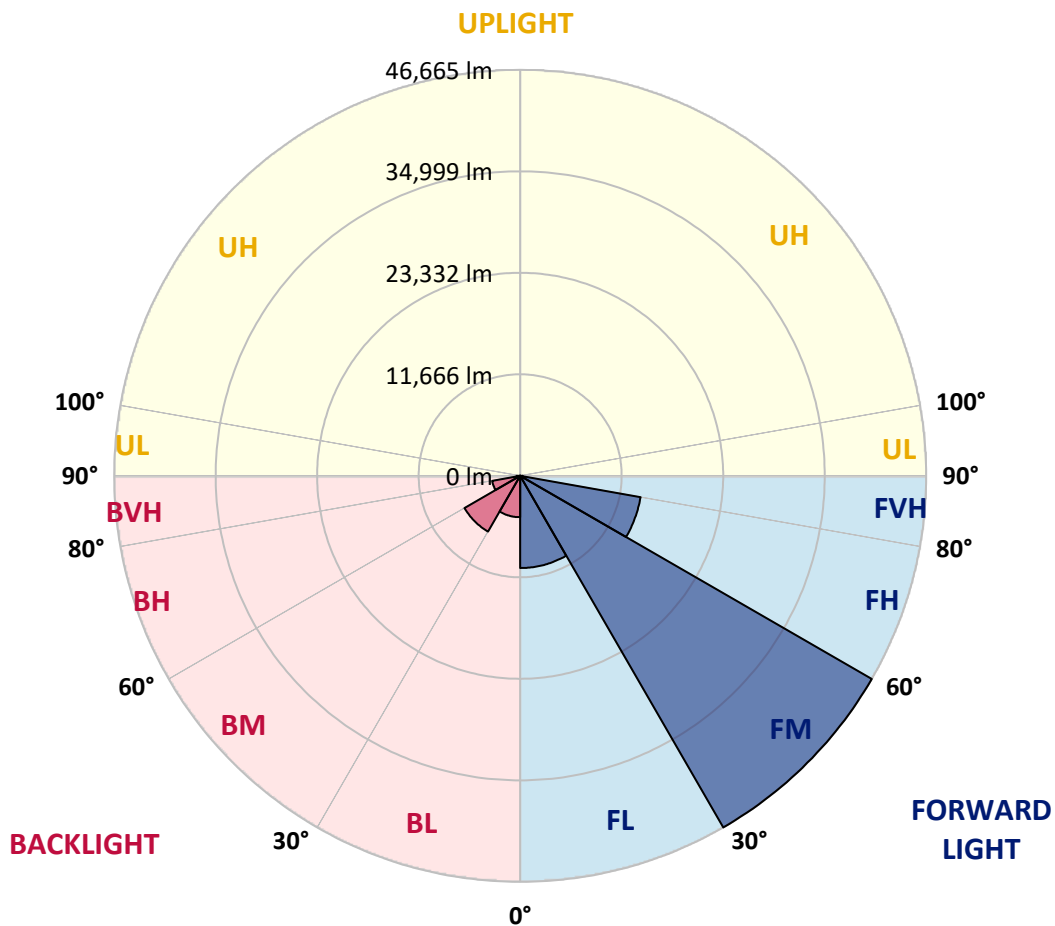
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10597.1	12.1			
FM (30°-60°)	46664.7	53.4			
FH (60°-80°)	14056.9	16.1			G5
FVH (80°-90°)	295.4	0.3			G3/500
BL (0°-30°)	4755.2	5.4	B4/5000		
BM (30°-60°)	7394.6	8.5	B4/8500		
BH (60°-80°)	3267.4	3.7	B4/5000		G4/5000
BVH (80°-90°)	403.7	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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4
2.5°	25135.6	25117.6	25217.0	24878.0	24647.5	24335.6	23924.3	23400.0	22835.0	22238.3
5°	27400.2	27242.0	27345.9	27092.8	26839.7	26369.6	25759.4	24905.1	23861.0	22672.3
7.5°	27043.1	26934.6	27201.3	27427.3	27617.1	27558.4	27110.9	26215.9	24869.0	23142.3
10°	24163.8	24041.8	24417.0	25198.9	26347.0	27345.9	27888.3	27332.4	25899.5	23657.6
12.5°	21623.6	21564.9	21813.5	22446.3	23720.9	25637.4	27788.9	28308.7	26970.8	24267.8
15°	20538.8	20466.5	20624.7	20945.6	21759.2	23544.6	26884.9	28977.6	28023.9	24972.9
17.5°	20299.3	20217.9	20285.7	20452.9	20977.3	22337.8	25519.8	29307.6	29122.3	25759.4
20°	20742.2	20674.4	20683.5	20674.4	21040.5	22120.8	24570.6	29181.0	30080.5	26482.6
22.5°	21813.5	21700.5	21705.0	21465.4	21664.3	22500.5	24322.0	28842.0	30934.8	27115.4
25°	23558.2	23354.8	23395.4	22785.3	22731.0	23350.2	24710.8	28579.9	31784.5	27621.6
27.5°	25944.7	25714.2	25592.2	24683.6	24249.7	24557.1	25501.8	28670.3	32589.1	28060.1
30°	28927.9	28647.7	28399.1	27110.9	26324.4	26211.4	26731.2	29266.9	33538.3	28521.1
32.5°	32584.6	32259.1	31807.1	30098.6	28991.2	28399.1	28322.2	30329.1	34650.2	29108.7
35°	36937.3	36512.4	35870.6	33660.3	32259.1	31047.8	30419.5	31861.4	36173.4	29994.6
37.5°	41421.2	40942.0	40354.4	37723.8	36001.7	34216.3	32977.8	33940.6	38202.9	31196.9
40°	45556.9	45019.1	44472.1	42130.8	40282.1	38130.6	36110.2	36571.2	40684.4	32634.3
42.5°	47997.7	47600.0	47392.1	46126.5	44698.1	42515.0	40006.4	39690.0	43473.2	34288.6
45°	47889.3	47726.5	48368.4	48892.7	48553.7	47342.3	44571.6	43138.7	46271.1	35721.5
47.5°	45330.9	45439.4	46872.3	49819.3	51116.5	51749.3	49769.6	46524.2	48702.9	36792.7
50°	38370.2	38460.6	41778.2	48133.3	51776.4	55342.7	54926.9	49828.3	50587.7	37448.1
52.5°	32860.3	32919.1	34342.9	43134.2	49597.8	57150.7	59573.4	52942.6	51966.3	37628.9
55°	24751.4	24954.8	26550.4	33841.1	43929.7	55717.9	62402.9	56151.8	52838.6	37647.0
57.5°	14459.4	14680.9	16651.6	22970.6	34144.0	50723.3	62832.3	58999.4	53430.8	37502.3
60°	7082.8	7177.7	8036.5	12072.9	21054.1	41100.2	59379.1	60378.0	53760.7	37425.5
62.5°	4773.1	4759.5	4795.7	5957.3	10373.4	26405.8	52183.2	57964.3	53584.4	37131.7
65°	4104.1	4054.4	3918.8	4181.0	5374.3	12077.4	40318.3	50759.4	52242.0	36394.9
67.5°	3548.2	3552.7	3557.2	3475.9	3837.5	5573.1	24638.4	39983.8	47423.7	32905.5
70°	2938.0	2978.7	2996.8	2996.8	3127.8	3656.7	10518.0	27404.7	37407.4	25800.1
72.5°	2675.8	2590.0	2599.0	2553.8	2553.8	2784.3	4235.2	15535.2	23567.2	14513.7
75°	2183.2	2237.4	2246.4	2214.8	2110.8	2124.4	2513.1	6517.8	10084.1	6020.6
77.5°	1884.8	1884.8	1902.9	1880.3	1799.0	1591.0	1676.9	2526.7	3430.7	2467.9
80°	1514.2	1509.7	1586.5	1631.7	1505.2	1175.2	1071.2	1396.7	1523.2	1084.8
82.5°	736.8	782.0	1089.3	1243.0	1143.6	849.8	655.4	867.8	813.6	479.1
85°	429.4	406.8	488.2	691.6	655.4	470.1	316.4	452.0	424.9	244.1
87.5°	135.6	126.6	99.4	235.0	189.8	131.1	85.9	131.1	117.5	54.2
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
21908.4	0°	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4	21908.4
21980.7	2.5°	21659.8	21126.4	20597.6	20113.9	19820.1	19630.3	19440.5	19228.0	19146.7	19024.6
22039.5	5°	21442.8	20412.3	19494.7	18703.7	17985.0	17420.0	16850.5	16389.5	16181.6	16321.7
22224.8	7.5°	21316.3	19824.7	18409.9	16959.0	15562.3	14445.9	13474.1	12791.6	12484.2	12561.0
22405.6	10°	21203.3	19160.2	17004.2	14712.6	12705.7	11322.6	10328.2	9808.4	9614.0	9654.7
22649.7	12.5°	21099.3	18414.4	15309.2	12294.4	10160.9	9247.9	8963.1	8967.7	9003.8	9030.9
23038.4	15°	21081.2	17514.9	13415.3	10179.0	8786.9	8728.1	9035.5	9229.8	9333.8	9365.4
23363.8	17.5°	21054.1	16439.2	11485.3	8737.1	8452.4	8850.1	9134.9	9261.5	9342.8	9347.3
23680.2	20°	20945.6	15074.2	9704.4	8050.1	8380.1	8723.6	8899.9	8999.3	9067.1	9089.7
23919.8	22.5°	20611.1	13555.4	8316.8	7742.7	8090.8	8366.5	8574.4	8687.4	8728.1	8755.2
23965.0	25°	20010.0	11855.9	7358.5	7448.9	7688.5	8036.5	8203.8	8226.4	8212.8	8253.5
23852.0	27.5°	19223.5	10034.4	6761.9	7051.2	7358.5	7656.9	7747.3	7733.7	7706.6	7751.8
23657.6	30°	18274.3	8398.1	6382.2	6603.7	7024.1	7295.3	7376.6	7345.0	7290.7	7340.5
23558.2	32.5°	17270.9	7060.2	6070.3	6291.8	6748.3	7015.0	7096.4	7064.7	7024.1	7064.7
23671.2	35°	16335.2	6124.6	5781.1	6083.9	6531.4	6793.5	6897.5	6902.0	6902.0	6951.7
23969.5	37.5°	15476.4	5577.7	5541.5	5952.8	6382.2	6617.3	6766.4	6775.5	6581.1	6594.7
24475.7	40°	14680.9	5347.1	5433.0	5866.9	6237.6	6463.6	6472.6	5966.4	5609.3	5600.3
25054.3	42.5°	14030.0	5301.9	5464.7	5857.9	6133.6	6142.7	5505.3	5112.1	5012.7	5017.2
25587.6	45°	13419.8	5288.4	5537.0	5857.9	5979.9	5306.5	4877.1	4773.1	4782.1	4818.3
25827.2	47.5°	12737.3	5234.1	5550.5	5776.5	5537.0	4718.9	4592.3	4547.1	4529.0	4538.1
25773.0	50°	11991.5	5039.8	5378.8	5613.8	4777.6	4465.7	4307.5	4294.0	4316.6	4330.1
25470.1	52.5°	11205.0	4723.4	5085.0	5320.0	4429.6	4244.3	4068.0	4099.6	4199.1	4230.7
25153.7	55°	10689.8	4352.7	4696.3	4732.4	4185.5	4036.3	3887.2	3959.5	4144.8	4203.6
24963.9	57.5°	10554.2	3959.5	4253.3	4212.6	3873.6	3855.5	3765.1	3828.4	4063.5	4149.3
24954.8	60°	10513.5	3606.9	3819.4	3787.7	3570.8	3656.7	3634.1	3665.7	3747.1	3774.2
24864.4	62.5°	10197.1	3326.7	3430.7	3385.5	3299.6	3448.7	3503.0	3435.2	3498.5	3530.1
24245.2	65°	9392.5	3100.7	3051.0	3019.4	3055.5	3191.1	3299.6	3164.0	3222.8	3313.1
21858.7	67.5°	8063.7	2793.4	2657.8	2693.9	2806.9	2879.2	3019.4	2865.7	2915.4	3069.1
17605.3	70°	6522.3	2404.6	2282.6	2386.6	2495.0	2644.2	2666.8	2562.8	2680.4	2852.1
10744.0	72.5°	4614.9	2011.4	1925.5	2138.0	2174.1	2368.5	2318.8	2269.0	2431.8	2490.5
5311.0	75°	3200.2	1622.7	1573.0	1735.7	1866.8	2034.0	1997.8	2056.6	2400.1	2427.2
2653.2	77.5°	2025.0	1261.1	1229.4	1333.4	1514.2	1699.5	1758.3	2427.2	4099.6	4262.3
1378.6	80°	1175.2	940.2	904.0	985.4	1143.6	1315.3	1695.0	2978.7	2703.0	2671.3
619.2	82.5°	655.4	646.4	601.2	623.8	763.9	949.2	2395.6	2097.3	1704.0	1758.3
248.6	85°	307.4	379.7	325.4	311.9	429.4	1111.9	1600.1	1197.8	795.5	777.4
54.2	87.5°	81.4	72.3	72.3	81.4	180.8	958.2	637.3	510.8	302.8	293.8
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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