

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: P957559

Luminaire Tested: **GALN-SB9D-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957559  
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-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

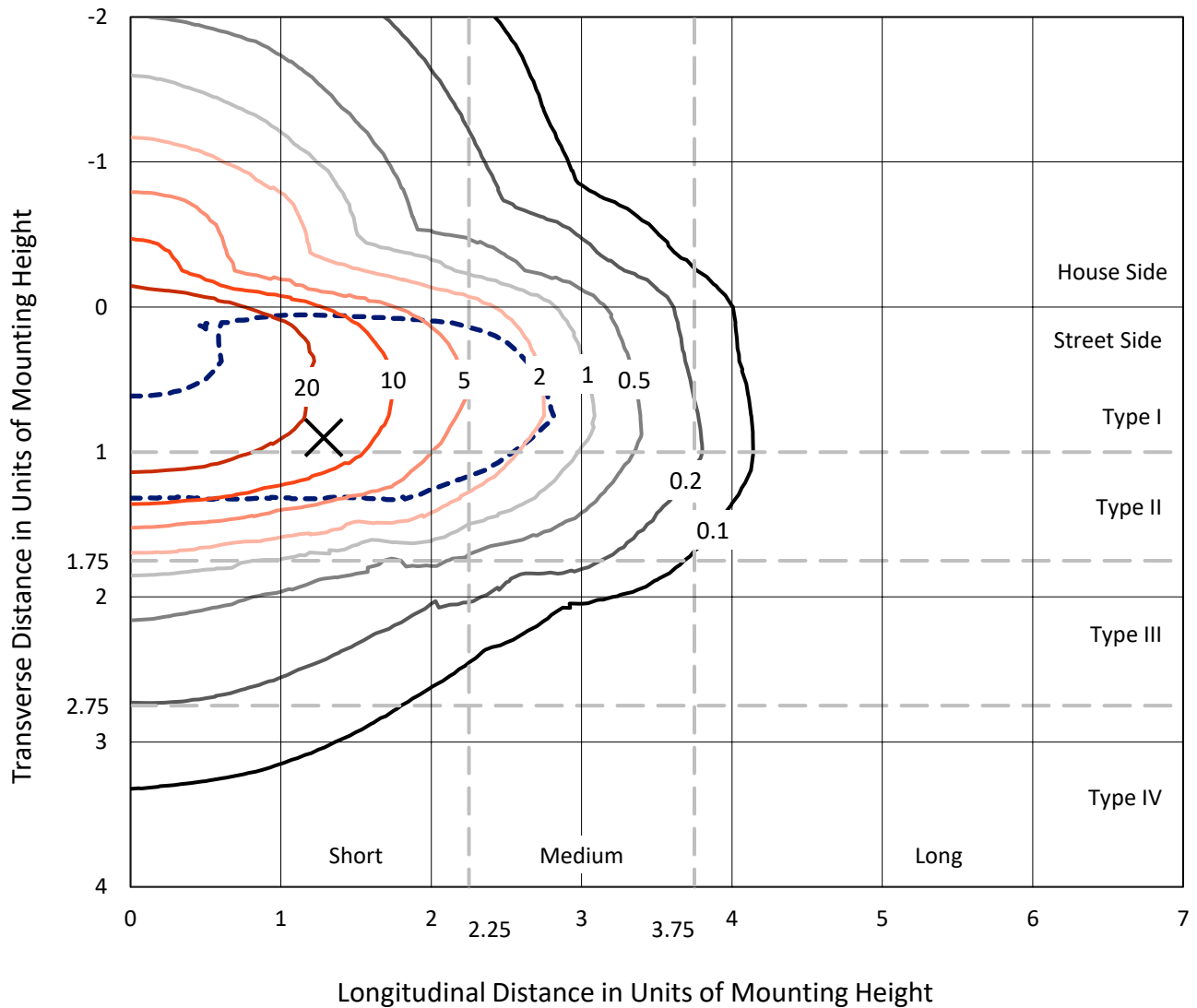
Lumens per Lamp: N/A  
Luminaire Lumens: 90167 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

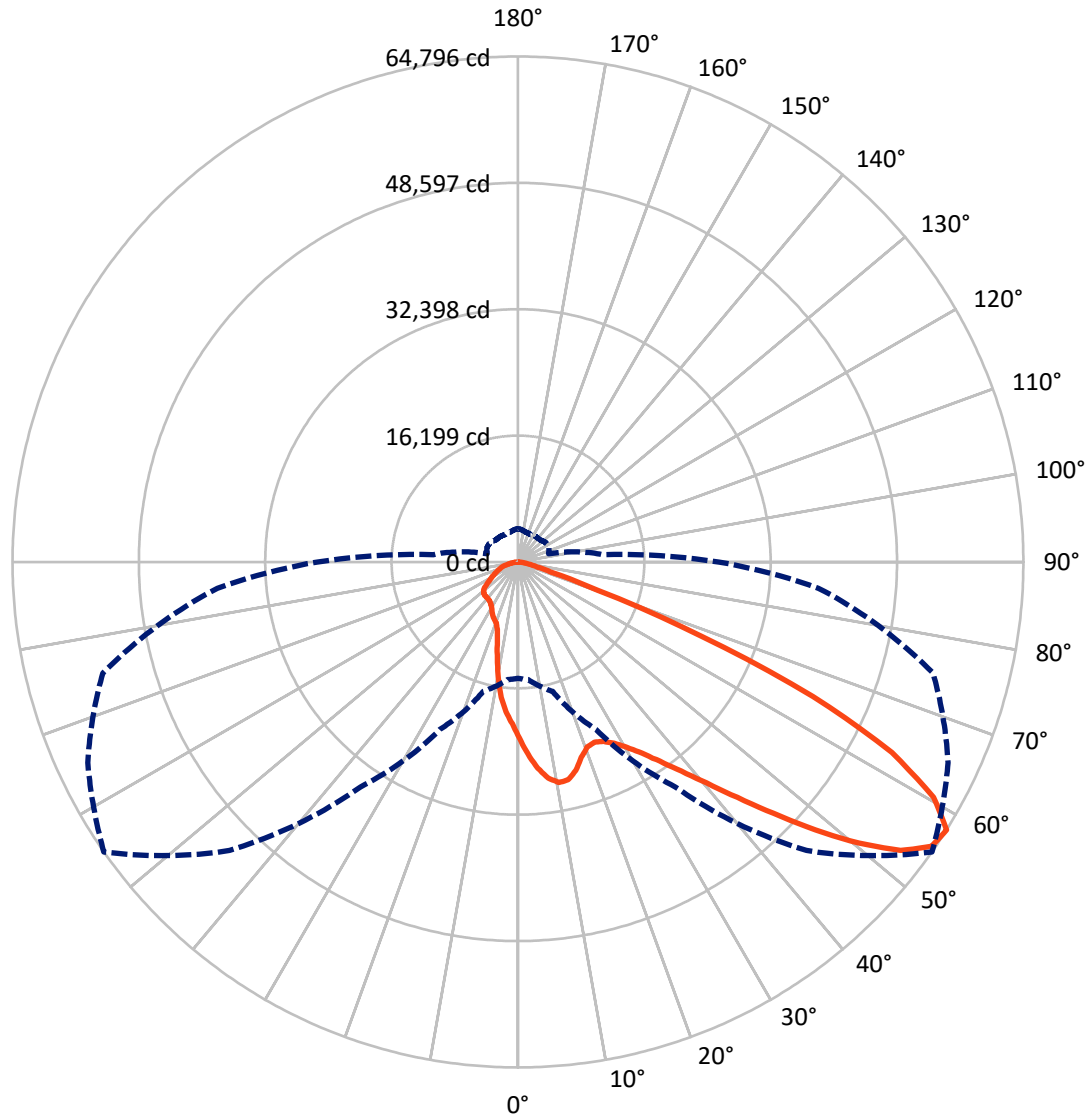
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 43.7 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	16315.3	0.0	16315.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	73851.7	0.0	73851.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	90167.0	0.0	90167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2096.5	2.3
10°-20°	5291.6	5.9
20°-30°	8444.0	9.4
30°-40°	13368.8	14.8
40°-50°	20462.4	22.7
50°-60°	21917.2	24.3
60°-70°	13788.2	15.3
70°-80°	4077.4	4.5
80°-90°	720.9	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°	90167.0	100.0
0°-180°	90167.0	100.0

**Coefficient of Utilization**



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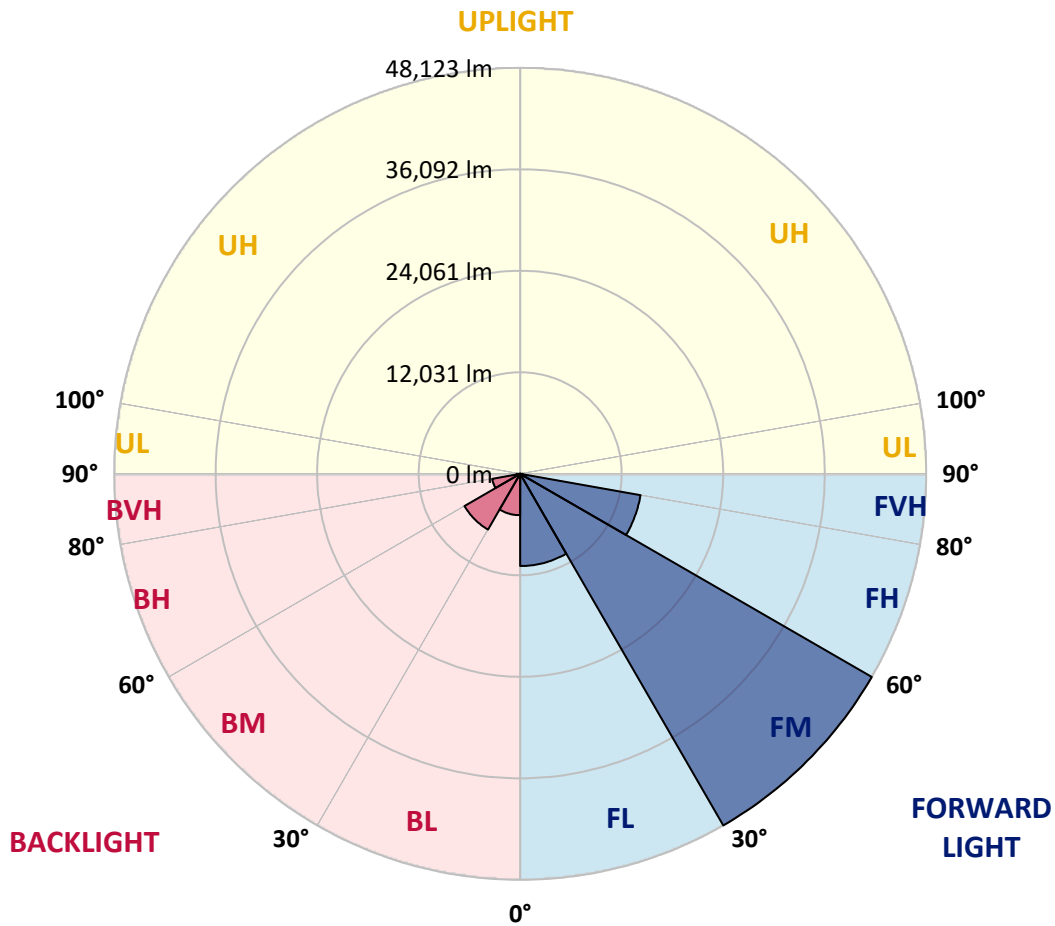
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10928.2	12.1			
FM (30°-60°)	48122.8	53.4			
FH (60°-80°)	14496.1	16.1			G5
FVH (80°-90°)	304.6	0.3			G3/500
BL (0°-30°)	4903.8	5.4	B4/5000		
BM (30°-60°)	7625.6	8.5	B4/8500		
BH (60°-80°)	3369.5	3.7	B4/5000		G4/5000
BVH (80°-90°)	416.3	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°	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9
2.5°	25921.0	25902.4	26004.9	25655.3	25417.6	25096.0	24671.8	24131.1	23548.5	22933.2
5°	28256.3	28093.2	28200.4	27939.3	27678.3	27193.5	26564.3	25683.3	24606.6	23380.7
7.5°	27888.1	27776.2	28051.2	28284.3	28480.0	28419.4	27958.0	27035.1	25646.0	23865.4
10°	24918.9	24793.0	25179.9	25986.3	27170.2	28200.4	28759.7	28186.4	26708.8	24396.8
12.5°	22299.3	22238.7	22495.0	23147.6	24462.1	26438.4	28657.2	29193.2	27813.5	25026.1
15°	21180.6	21106.0	21269.1	21600.1	22439.1	24280.3	27724.9	29883.1	28899.6	25753.2
17.5°	20933.5	20849.6	20919.5	21092.0	21632.7	23035.7	26317.2	30223.3	30032.2	26564.3
20°	21390.3	21320.4	21329.7	21320.4	21698.0	22812.0	25338.4	30092.8	31020.4	27310.1
22.5°	22495.0	22378.5	22383.2	22136.1	22341.2	23203.5	25082.0	29743.2	31901.4	27962.6
25°	24294.3	24084.5	24126.5	23497.2	23441.3	24079.9	25482.9	29472.9	32777.7	28484.7
27.5°	26755.4	26517.7	26391.8	25454.9	25007.4	25324.4	26298.6	29566.1	33607.4	28936.8
30°	29831.8	29542.8	29286.4	27958.0	27146.9	27030.4	27566.4	30181.4	34586.2	29412.3
32.5°	33602.7	33267.1	32801.0	31039.1	29897.1	29286.4	29207.2	31276.8	35732.9	30018.2
35°	38091.5	37653.3	36991.4	34712.1	33267.1	32017.9	31370.0	32856.9	37303.7	30931.8
37.5°	42715.4	42221.3	41615.4	38902.5	37126.6	35285.4	34008.2	35001.1	39396.6	32171.7
40°	46980.4	46425.7	45861.7	43447.2	41540.8	39322.0	37238.5	37713.9	41955.6	33654.0
42.5°	49497.5	49087.3	48872.9	47567.7	46094.8	43843.4	41256.4	40930.2	44831.6	35360.0
45°	49385.6	49217.8	49879.7	50420.4	50070.8	48821.6	45964.3	44486.7	47716.9	36837.6
47.5°	46747.4	46859.2	48336.8	51375.9	52713.7	53366.3	51324.7	47977.9	50224.6	37942.3
50°	39569.1	39662.3	43083.6	49637.3	53394.3	57072.0	56643.1	51385.3	52168.4	38618.2
52.5°	33887.1	33947.7	35415.9	44482.0	51147.5	58936.4	61434.9	54596.8	53590.0	38804.6
55°	25524.8	25734.6	27380.0	34898.5	45302.4	57458.8	64352.8	57906.3	54489.6	38823.3
57.5°	14911.2	15139.6	17171.9	23688.3	35210.8	52308.2	64795.6	60842.9	55100.3	38674.1
60°	7304.1	7402.0	8287.6	12450.1	21712.0	42384.5	61234.4	62264.5	55440.5	38594.9
62.5°	4922.2	4908.3	4945.6	6143.5	10697.5	27230.8	53813.8	59775.5	55258.7	38291.9
65°	4232.4	4181.1	4041.3	4311.6	5542.2	12454.8	41578.1	52345.5	53874.4	37532.1
67.5°	3659.1	3663.7	3668.4	3584.5	3957.4	5747.3	25408.3	41233.1	48905.5	33933.7
70°	3029.8	3071.7	3090.4	3090.4	3225.6	3770.9	10846.7	28261.0	38576.2	26606.2
72.5°	2759.4	2670.9	2680.2	2633.6	2633.6	2871.3	4367.6	16020.6	24303.6	14967.2
75°	2251.4	2307.3	2316.6	2284.0	2176.8	2190.8	2591.6	6721.5	10399.2	6208.7
77.5°	1943.7	1943.7	1962.4	1939.1	1855.2	1640.7	1729.3	2605.6	3537.9	2545.0
80°	1561.5	1556.8	1636.1	1682.7	1552.2	1211.9	1104.7	1440.3	1570.8	1118.7
82.5°	759.8	806.4	1123.4	1281.8	1179.3	876.3	675.9	895.0	839.0	494.1
85°	442.8	419.5	503.4	713.2	675.9	484.8	326.3	466.1	438.2	251.7
87.5°	139.8	130.5	102.5	242.4	195.8	135.2	88.6	135.2	121.2	55.9
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°
22592.9	0°	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9	22592.9
22667.5	2.5°	22336.6	21786.5	21241.2	20742.4	20439.4	20243.7	20047.9	19828.8	19744.9	19619.1
22728.1	5°	22112.8	21050.1	20103.8	19288.1	18547.0	17964.3	17377.0	16901.6	16687.2	16831.7
22919.2	7.5°	21982.3	20444.1	18985.1	17488.9	16048.6	14897.3	13895.1	13191.2	12874.3	12953.5
23105.7	10°	21865.8	19758.9	17535.5	15172.3	13102.7	11676.4	10650.9	10114.8	9914.4	9956.4
23357.4	12.5°	21758.6	18989.8	15787.5	12678.5	10478.4	9536.9	9243.2	9247.9	9285.1	9313.1
23758.2	15°	21739.9	18062.2	13834.5	10497.1	9061.4	9000.8	9317.8	9518.2	9625.4	9658.0
24093.8	17.5°	21712.0	16952.8	11844.2	9010.1	8716.5	9126.7	9420.3	9550.8	9634.7	9639.4
24420.1	20°	21600.1	15545.2	10007.6	8301.6	8641.9	8996.2	9177.9	9280.5	9350.4	9373.7
24667.2	22.5°	21255.2	13979.0	8576.6	7984.7	8343.6	8627.9	8842.3	8958.9	9000.8	9028.8
24713.8	25°	20635.2	12226.4	7588.5	7681.7	7928.7	8287.6	8460.1	8483.4	8469.4	8511.4
24597.2	27.5°	19824.2	10347.9	6973.2	7271.5	7588.5	7896.1	7989.3	7975.3	7947.4	7994.0
24396.8	30°	18845.3	8660.5	6581.6	6810.0	7243.5	7523.2	7607.1	7574.5	7518.5	7569.8
24294.3	32.5°	17810.5	7280.8	6260.0	6488.4	6959.2	7234.2	7318.1	7285.5	7243.5	7285.5
24410.8	35°	16845.6	6316.0	5961.7	6274.0	6735.5	7005.8	7113.0	7117.7	7117.7	7169.0
24718.4	37.5°	15960.0	5751.9	5714.7	6138.8	6581.6	6824.0	6977.8	6987.2	6786.7	6800.7
25240.5	40°	15139.6	5514.2	5602.8	6050.3	6432.5	6665.5	6674.9	6152.8	5784.6	5775.2
25837.1	42.5°	14468.4	5467.6	5635.4	6040.9	6325.3	6334.6	5677.4	5271.8	5169.3	5174.0
26387.2	45°	13839.2	5453.6	5710.0	6040.9	6166.8	5472.3	5029.5	4922.2	4931.6	4968.9
26634.2	47.5°	13135.3	5397.7	5724.0	5957.0	5710.0	4866.3	4735.8	4689.2	4670.5	4679.9
26578.3	50°	12366.2	5197.3	5546.8	5789.2	4926.9	4605.3	4442.1	4428.2	4451.5	4465.4
26266.0	52.5°	11555.2	4871.0	5243.9	5486.3	4568.0	4376.9	4195.1	4227.7	4330.3	4362.9
25939.7	55°	11023.8	4488.8	4843.0	4880.3	4316.3	4162.5	4008.6	4083.2	4274.3	4334.9
25743.9	57.5°	10883.9	4083.2	4386.2	4344.3	3994.7	3976.0	3882.8	3948.1	4190.4	4279.0
25734.6	60°	10842.0	3719.7	3938.7	3906.1	3682.4	3770.9	3747.6	3780.2	3864.1	3892.1
25641.4	62.5°	10515.7	3430.7	3537.9	3491.3	3402.7	3556.5	3612.4	3542.5	3607.8	3640.4
25002.8	65°	9686.0	3197.6	3146.3	3113.7	3151.0	3290.8	3402.7	3262.9	3323.4	3416.7
22541.7	67.5°	8315.6	2880.6	2740.8	2778.1	2894.6	2969.2	3113.7	2955.2	3006.5	3165.0
18155.4	70°	6726.1	2479.8	2353.9	2461.1	2573.0	2726.8	2750.1	2642.9	2764.1	2941.2
11079.7	72.5°	4759.1	2074.2	1985.7	2204.8	2242.0	2442.5	2391.2	2339.9	2507.7	2568.3
5476.9	75°	3300.1	1673.4	1622.1	1789.9	1925.1	2097.5	2060.3	2120.9	2475.1	2503.1
2736.1	77.5°	2088.2	1300.5	1267.9	1375.1	1561.5	1752.6	1813.2	2503.1	4227.7	4395.5
1421.7	80°	1211.9	969.5	932.2	1016.1	1179.3	1356.4	1748.0	3071.7	2787.4	2754.8
638.6	82.5°	675.9	666.6	619.9	643.2	787.7	978.9	2470.4	2162.8	1757.3	1813.2
256.4	85°	317.0	391.5	335.6	321.6	442.8	1146.7	1650.1	1235.2	820.4	801.7
55.9	87.5°	83.9	74.6	74.6	83.9	186.4	988.2	657.2	526.7	312.3	303.0
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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