

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: P957391

Luminaire Tested: **GALN-SB9D-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957391  
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-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

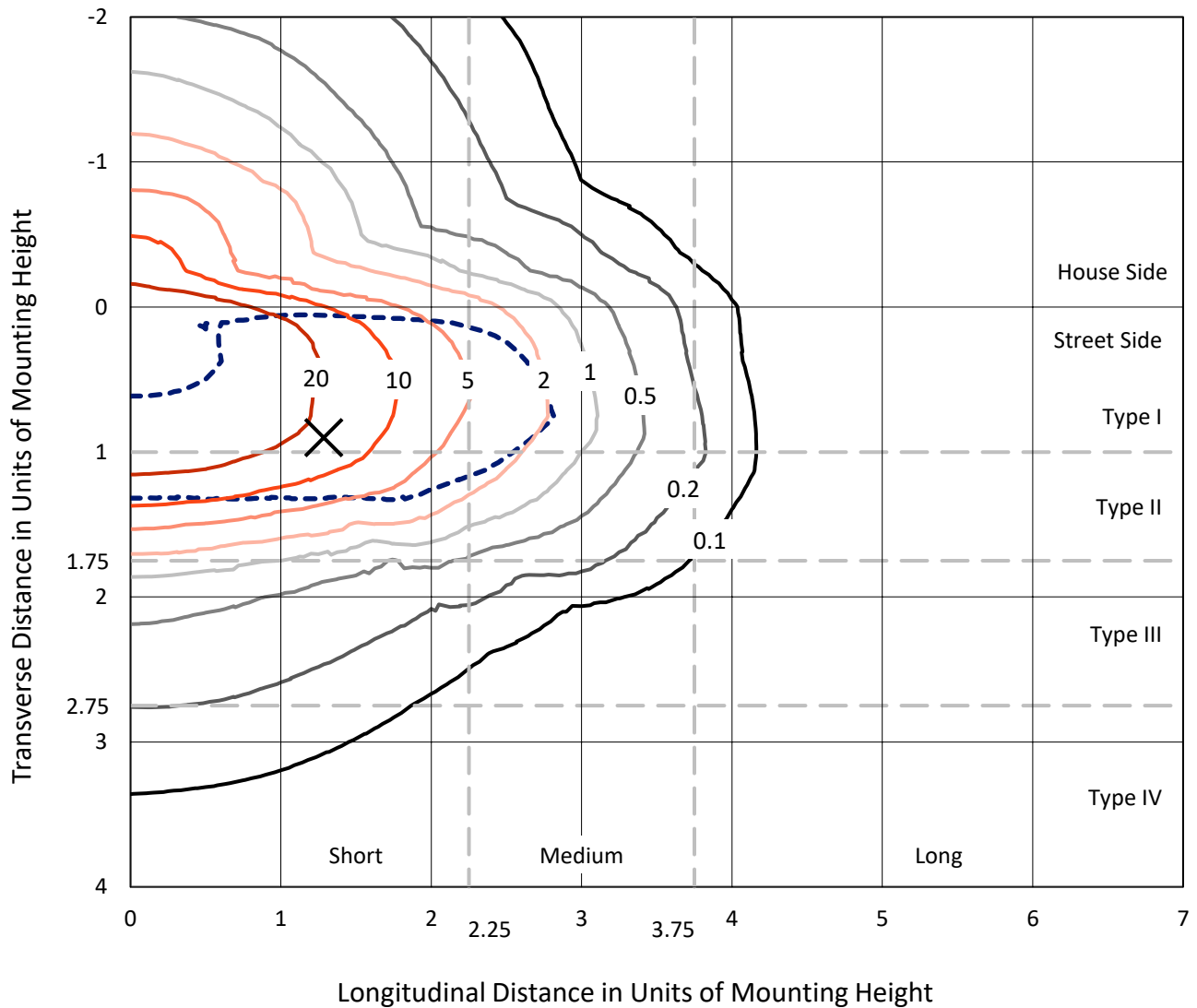
Lumens per Lamp: N/A  
Luminaire Lumens: 94265 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

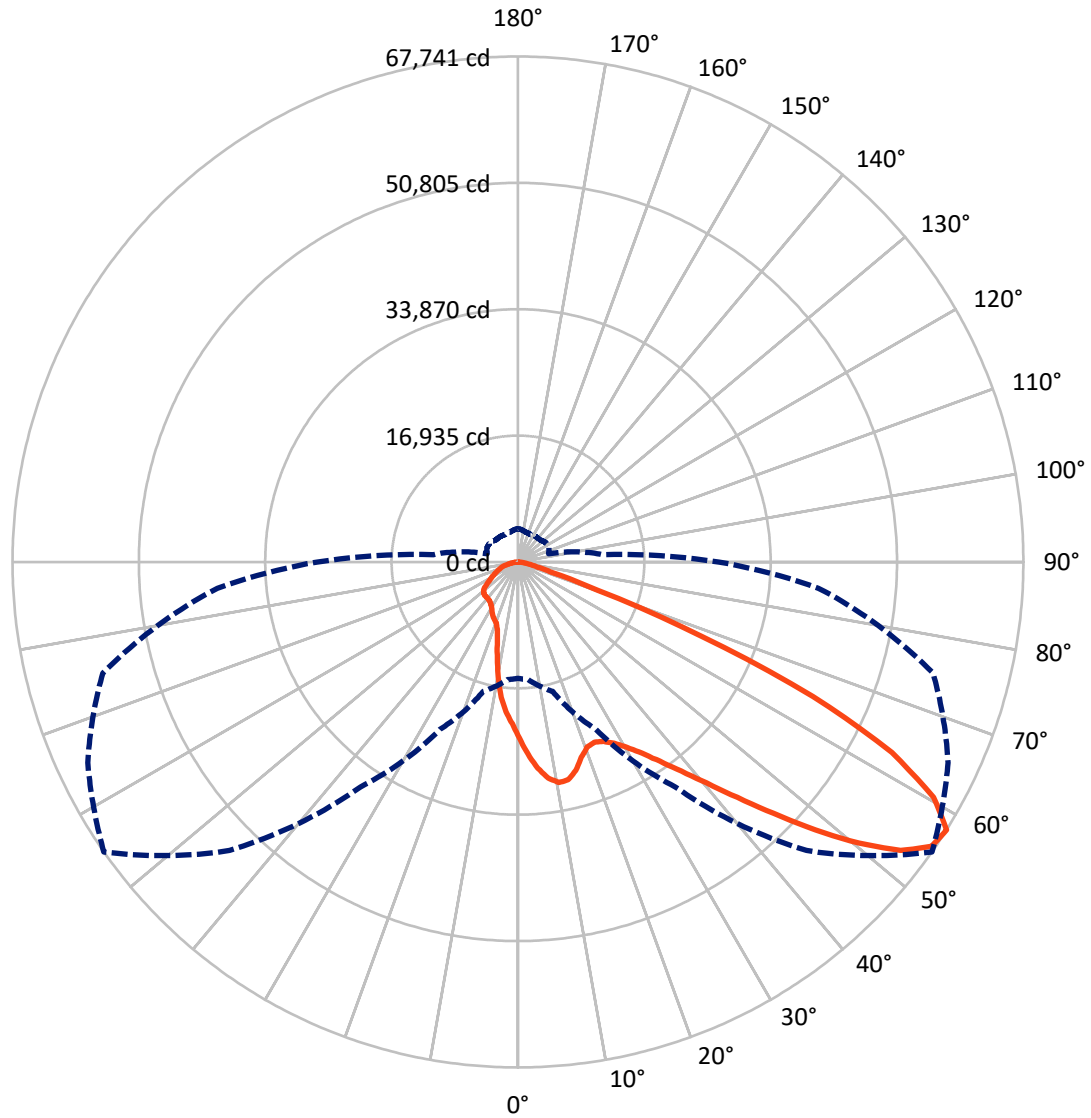
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 45.7 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	17056.8	0.0	17056.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	77208.2	0.0	77208.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	94265.0	0.0	94265.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2191.8	2.3
10°-20°	5532.1	5.9
20°-30°	8827.7	9.4
30°-40°	13976.5	14.8
40°-50°	21392.4	22.7
50°-60°	22913.3	24.3
60°-70°	14414.8	15.3
70°-80°	4262.7	4.5
80°-90°	753.7	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°	94265.0	100.0
0°-180°	94265.0	100.0



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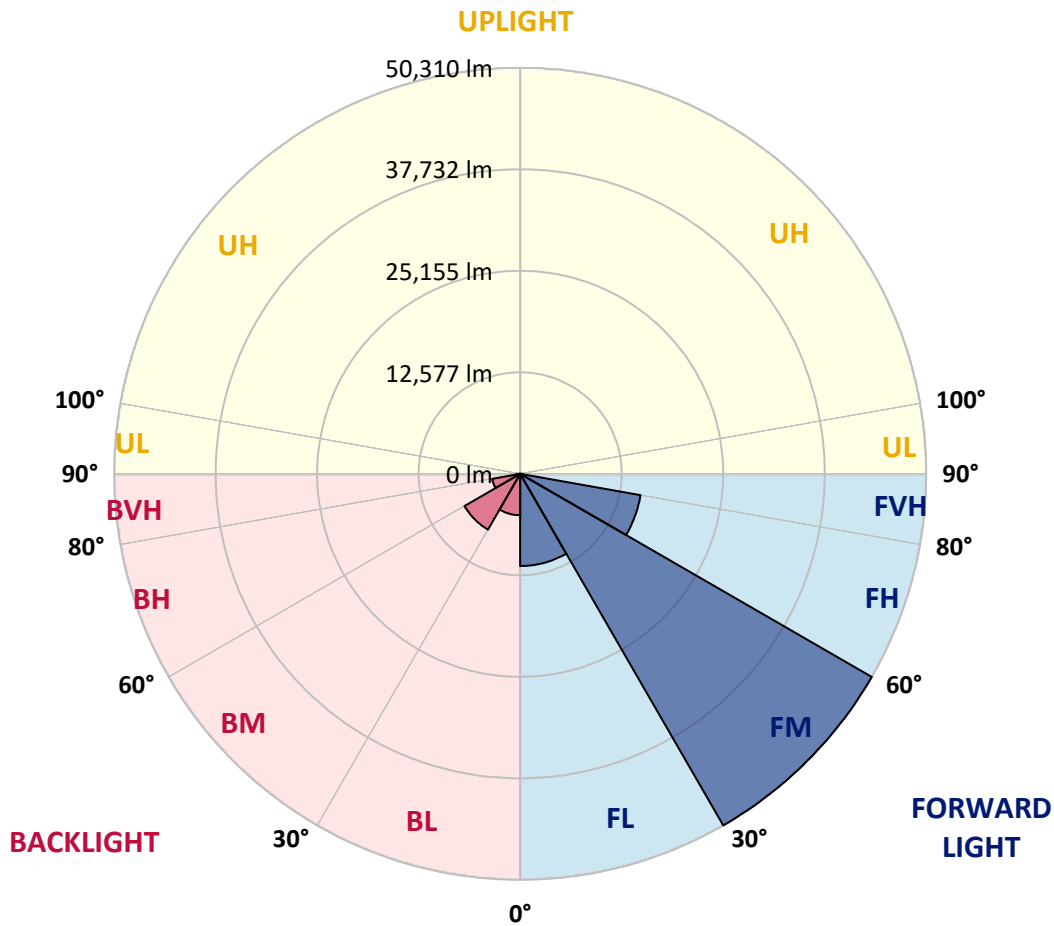
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11424.9	12.1			
FM (30°-60°)	50309.9	53.4			
FH (60°-80°)	15154.9	16.1			G5
FVH (80°-90°)	318.4	0.3			G3/500
BL (0°-30°)	5126.7	5.4	B5		
BM (30°-60°)	7972.2	8.5	B4/8500		
BH (60°-80°)	3522.6	3.7	B4/5000		G4/5000
BVH (80°-90°)	435.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7
2.5°	27099.1	27079.6	27186.8	26821.4	26572.8	26236.6	25793.1	25227.9	24618.7	23975.5
5°	29540.5	29370.0	29482.0	29209.2	28936.3	28429.5	27771.6	26850.6	25724.9	24443.3
7.5°	29155.6	29038.6	29326.1	29569.8	29774.4	29711.1	29228.6	28263.8	26811.6	24950.1
10°	26051.4	25919.8	26324.3	27167.3	28405.1	29482.0	30066.8	29467.4	27922.7	25505.6
12.5°	23312.7	23249.4	23517.4	24199.6	25573.8	27640.0	29959.6	30520.0	29077.6	26163.5
15°	22143.2	22065.2	22235.8	22581.8	23458.9	25383.8	28985.0	31241.2	30213.0	26923.7
17.5°	21884.9	21797.2	21870.3	22050.6	22615.9	24082.7	27513.3	31597.0	31397.2	27771.6
20°	22362.5	22289.4	22299.1	22289.4	22684.1	23848.8	26490.0	31460.5	32430.3	28551.3
22.5°	23517.4	23395.6	23400.5	23142.2	23356.6	24258.1	26222.0	31095.0	33351.3	29233.5
25°	25398.4	25179.1	25223.0	24565.1	24506.6	25174.3	26641.0	30812.4	34267.4	29779.3
27.5°	27971.4	27722.9	27591.3	26611.8	26144.0	26475.4	27493.8	30909.9	35134.8	30252.0
30°	31187.6	30885.5	30617.5	29228.6	28380.7	28258.9	28819.3	31553.1	36158.1	30749.0
32.5°	35129.9	34779.1	34291.8	32449.7	31255.8	30617.5	30534.6	32698.3	37356.9	31382.5
35°	39822.7	39364.6	38672.6	36289.7	34779.1	33473.1	32795.7	34350.2	38999.1	32337.7
37.5°	44656.8	44140.2	43506.7	40670.6	38814.0	36889.1	35553.9	36591.8	41187.2	33633.9
40°	49115.6	48535.7	47946.1	45421.8	43428.8	41109.2	38930.9	39428.0	43862.5	35183.5
42.5°	51747.1	51318.3	51094.1	49729.6	48189.7	45836.1	43131.5	42790.4	46869.1	36967.1
45°	51630.1	51454.7	52146.7	52712.0	52346.5	51040.5	48053.3	46508.5	49885.6	38511.8
47.5°	48872.0	48988.9	50533.7	53710.9	55109.5	55791.7	53657.3	50158.5	52507.3	39666.8
50°	41367.5	41464.9	45041.7	51893.3	55821.0	59665.8	59217.5	53720.7	54539.4	40373.3
52.5°	35427.2	35490.5	37025.6	46503.7	53472.1	61615.0	64227.0	57078.2	56025.6	40568.3
55°	26684.9	26904.2	28624.4	36484.6	47361.3	60070.3	67277.5	60538.1	56966.1	40587.8
57.5°	15588.9	15827.7	17952.4	24764.9	36811.1	54685.5	67740.5	63608.1	57604.5	40431.8
60°	7636.1	7738.4	8664.3	13016.0	22698.7	44310.8	64017.5	65094.4	57960.2	40349.0
62.5°	5146.0	5131.3	5170.3	6422.7	11183.7	28468.4	56259.5	62492.2	57770.2	40032.2
65°	4424.7	4371.1	4224.9	4507.6	5794.1	13020.8	43467.7	54724.5	56322.9	39237.9
67.5°	3825.4	3830.2	3835.1	3747.4	4137.2	6008.5	26563.1	43107.1	51128.2	35475.9
70°	3167.5	3211.4	3230.8	3230.8	3372.2	3942.3	11339.6	29545.4	40329.5	27815.5
72.5°	2884.9	2792.3	2802.0	2753.3	2753.3	3001.8	4566.1	16748.7	25408.2	15647.4
75°	2353.7	2412.2	2421.9	2387.8	2275.7	2290.3	2709.4	7027.0	10871.8	6490.9
77.5°	2032.1	2032.1	2051.6	2027.2	1939.5	1715.3	1807.9	2724.0	3698.7	2660.7
80°	1632.5	1627.6	1710.4	1759.2	1622.7	1267.0	1154.9	1505.8	1642.2	1169.5
82.5°	794.3	843.0	1174.4	1340.1	1232.9	916.1	706.6	935.6	877.2	516.5
85°	462.9	438.6	526.3	745.6	706.6	506.8	341.1	487.3	458.1	263.1
87.5°	146.2	136.4	107.2	253.4	204.7	141.3	92.6	141.3	126.7	58.5
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°
23619.7	0°	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7	23619.7
23697.7	2.5°	23351.7	22776.7	22206.6	21685.1	21368.4	21163.7	20959.1	20730.0	20642.3	20510.7
23761.1	5°	23117.8	22006.8	21017.5	20164.7	19389.9	18780.8	18166.8	17669.7	17445.6	17596.6
23960.9	7.5°	22981.4	21373.3	19848.0	18283.7	16778.0	15574.3	14526.6	13790.8	13459.4	13542.2
24155.8	10°	22859.6	20656.9	18332.5	15861.8	13698.2	12207.0	11135.0	10574.6	10365.0	10408.9
24418.9	12.5°	22747.5	19852.9	16505.1	13254.7	10954.7	9970.3	9663.3	9668.2	9707.1	9736.4
24838.0	15°	22728.0	18883.1	14463.3	10974.1	9473.2	9409.9	9741.3	9950.8	10062.9	10097.0
25188.9	17.5°	22698.7	17723.3	12382.5	9419.6	9112.6	9541.5	9848.5	9984.9	10072.6	10077.5
25530.0	20°	22581.8	16251.7	10462.5	8678.9	9034.7	9405.0	9595.1	9702.3	9775.4	9799.7
25788.3	22.5°	22221.2	14614.3	8966.4	8347.6	8722.8	9020.0	9244.2	9366.0	9409.9	9439.1
25837.0	25°	21573.1	12782.1	7933.4	8030.8	8289.1	8664.3	8844.6	8869.0	8854.4	8898.2
25715.2	27.5°	20725.1	10818.2	7290.1	7602.0	7933.4	8255.0	8352.4	8337.8	8308.6	8357.3
25505.6	30°	19701.8	9054.2	6880.8	7119.5	7572.7	7865.1	7952.8	7918.7	7860.3	7913.9
25398.4	32.5°	18620.0	7611.7	6544.5	6783.3	7275.5	7563.0	7650.7	7616.6	7572.7	7616.6
25520.2	35°	17611.3	6603.0	6232.7	6559.1	7041.6	7324.2	7436.3	7441.2	7441.2	7494.8
25841.9	37.5°	16685.4	6013.4	5974.4	6417.8	6880.8	7134.2	7295.0	7304.7	7095.2	7109.8
26387.7	40°	15827.7	5764.8	5857.4	6325.2	6724.8	6968.5	6978.2	6432.4	6047.5	6037.7
27011.4	42.5°	15126.0	5716.1	5891.5	6315.5	6612.8	6622.5	5935.4	5511.4	5404.2	5409.1
27586.4	45°	14468.1	5701.5	5969.5	6315.5	6447.1	5721.0	5258.0	5146.0	5155.7	5194.7
27844.7	47.5°	13732.3	5643.0	5984.1	6227.8	5969.5	5087.5	4951.0	4902.3	4882.8	4892.6
27786.2	50°	12928.2	5433.5	5798.9	6052.3	5150.8	4814.6	4644.0	4629.4	4653.8	4668.4
27459.7	52.5°	12080.3	5092.4	5482.2	5735.6	4775.6	4575.8	4385.8	4419.9	4527.1	4561.2
27118.6	55°	11524.8	4692.8	5063.1	5102.1	4512.5	4351.6	4190.8	4268.8	4468.6	4532.0
26913.9	57.5°	11378.6	4268.8	4585.6	4541.7	4176.2	4156.7	4059.3	4127.5	4380.9	4473.5
26904.2	60°	11334.8	3888.7	4117.7	4083.6	3849.7	3942.3	3917.9	3952.1	4039.8	4069.0
26806.7	62.5°	10993.6	3586.6	3698.7	3649.9	3557.3	3718.1	3776.6	3703.5	3771.8	3805.9
26139.1	65°	10126.2	3342.9	3289.3	3255.2	3294.2	3440.4	3557.3	3411.1	3474.5	3572.0
23566.1	67.5°	8693.5	3011.6	2865.4	2904.3	3026.2	3104.1	3255.2	3089.5	3143.1	3308.8
18980.6	70°	7031.8	2592.5	2460.9	2573.0	2689.9	2850.7	2875.1	2763.0	2889.7	3074.9
11583.3	72.5°	4975.4	2168.5	2075.9	2305.0	2343.9	2553.5	2499.9	2446.3	2621.7	2685.1
5725.9	75°	3450.1	1749.4	1695.8	1871.3	2012.6	2192.9	2153.9	2217.2	2587.6	2616.8
2860.5	77.5°	2183.1	1359.6	1325.5	1437.6	1632.5	1832.3	1895.6	2616.8	4419.9	4595.3
1486.3	80°	1267.0	1013.6	974.6	1062.3	1232.9	1418.1	1827.4	3211.4	2914.1	2880.0
667.6	82.5°	706.6	696.8	648.1	672.5	823.5	1023.3	2582.7	2261.1	1837.1	1895.6
268.0	85°	331.4	409.3	350.9	336.2	462.9	1198.8	1725.1	1291.4	857.7	838.2
58.5	87.5°	87.7	78.0	78.0	87.7	194.9	1033.1	687.1	550.7	326.5	316.7
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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