

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: P956131

Luminaire Tested: **GALN-SB8D-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956131  
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-SB8D-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

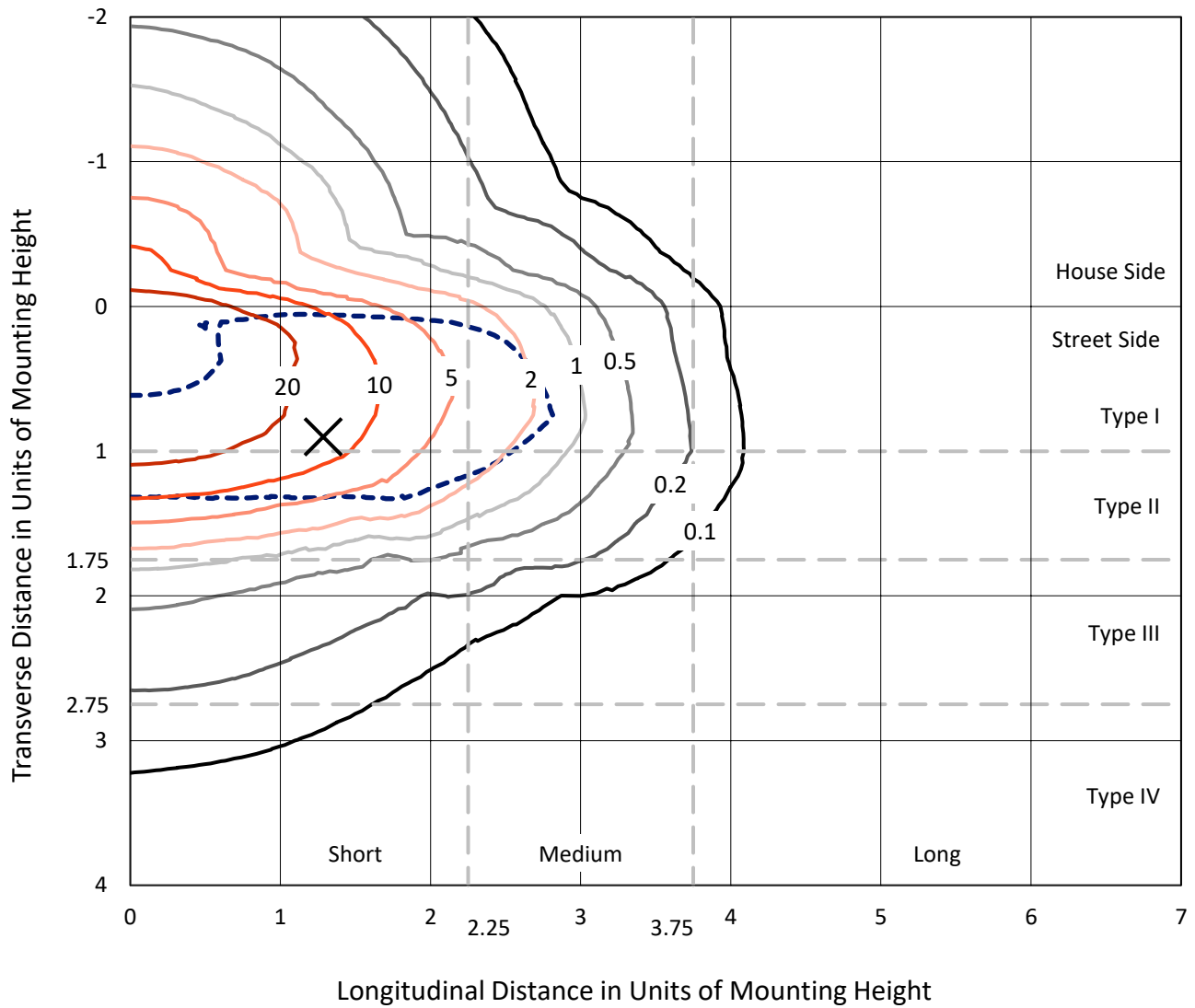
Lumens per Lamp: N/A  
Luminaire Lumens: 80048 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

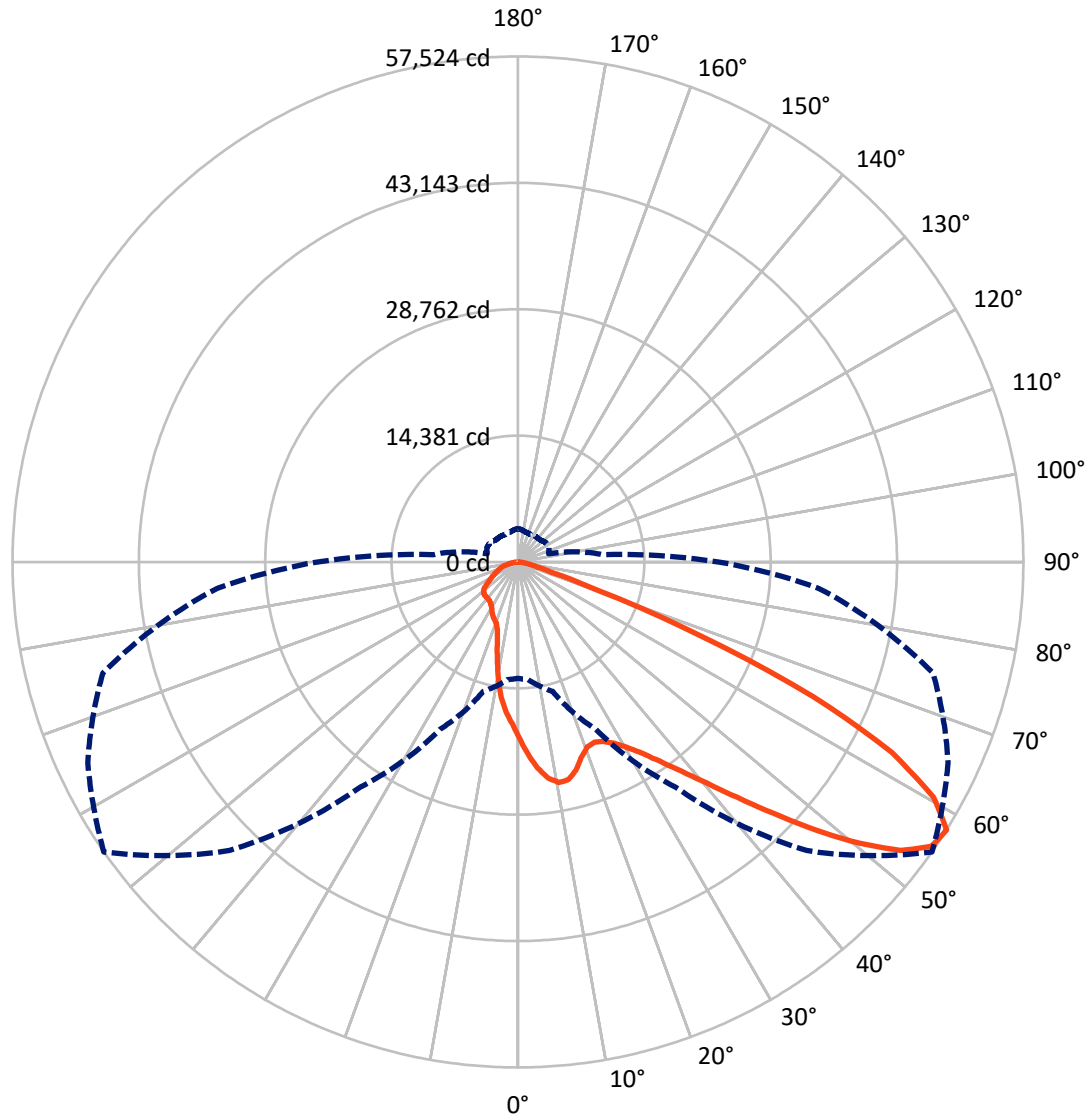
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 38.8 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	14484.3	0.0	14484.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	65563.7	0.0	65563.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	80048.0	0.0	80048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1861.2	2.3
10°-20°	4697.8	5.9
20°-30°	7496.3	9.4
30°-40°	11868.5	14.8
40°-50°	18166.0	22.7
50°-60°	19457.5	24.3
60°-70°	12240.8	15.3
70°-80°	3619.8	4.5
80°-90°	640.0	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°	80048.0	100.0
0°-180°	80048.0	100.0

**Coefficient of Utilization**



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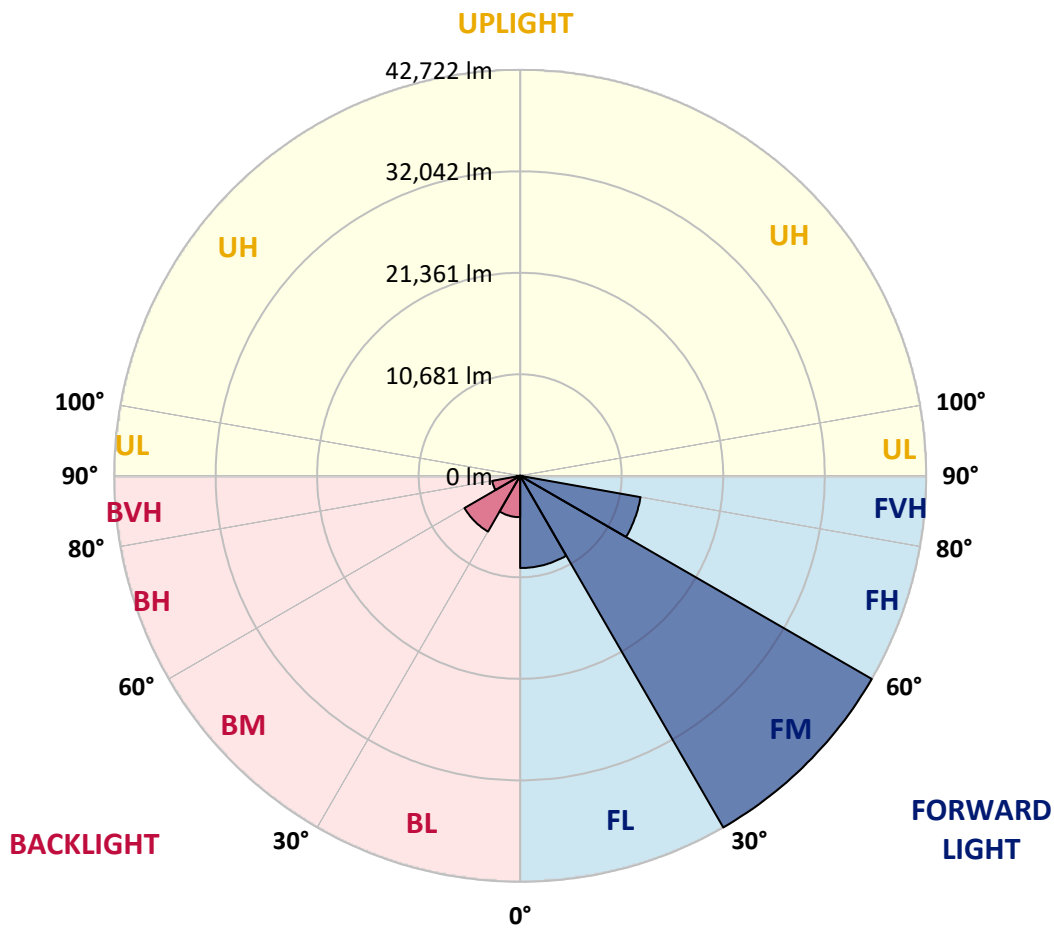
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9701.8	12.1			
FM (30°-60°)	42722.2	53.4			
FH (60°-80°)	12869.3	16.1			G5
FVH (80°-90°)	270.4	0.3			G3/500
BL (0°-30°)	4353.5	5.4	B4/5000		
BM (30°-60°)	6769.8	8.5	B4/8500		
BH (60°-80°)	2991.4	3.7	B4/5000		G4/5000
BVH (80°-90°)	369.6	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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4
2.5°	23012.0	22995.5	23086.5	22776.2	22565.1	22279.6	21903.0	21423.0	20905.7	20359.5
5°	25085.2	24940.4	25035.6	24803.8	24572.1	24141.7	23583.1	22801.0	21845.1	20756.8
7.5°	24758.3	24659.0	24903.2	25110.1	25283.9	25230.1	24820.4	24001.1	22767.9	21187.1
10°	22122.3	22010.6	22354.1	23070.0	24121.1	25035.6	25532.2	25023.2	23711.4	21658.9
12.5°	19796.7	19742.9	19970.5	20549.9	21716.8	23471.4	25441.1	25917.0	24692.1	22217.5
15°	18803.6	18737.4	18882.2	19176.0	19920.9	21555.4	24613.5	26529.4	25656.3	22863.1
17.5°	18584.3	18509.8	18571.8	18725.0	19205.0	20450.6	23363.8	26831.5	26661.9	23583.1
20°	18989.8	18927.7	18936.0	18927.7	19262.9	20251.9	22494.8	26715.7	27539.1	24245.2
22.5°	19970.5	19867.1	19871.2	19651.9	19834.0	20599.5	22267.2	26405.3	28321.2	24824.5
25°	21567.8	21381.6	21418.9	20860.2	20810.6	21377.5	22623.1	26165.3	29099.2	25288.0
27.5°	23752.8	23541.7	23430.0	22598.2	22201.0	22482.4	23347.2	26248.0	29835.8	25689.4
30°	26483.9	26227.4	25999.8	24820.4	24100.4	23996.9	24472.8	26794.3	30704.8	26111.5
32.5°	29831.7	29533.7	29119.9	27555.7	26541.9	25999.8	25929.4	27766.7	31722.8	26649.4
35°	33816.7	33427.7	32840.1	30816.5	29533.7	28424.7	27849.5	29169.6	33117.3	27460.5
37.5°	37921.7	37483.0	36945.1	34536.7	32960.1	31325.5	30191.7	31073.1	34975.3	28561.3
40°	41708.0	41215.6	40714.9	38571.3	36878.9	34909.1	33059.4	33481.5	37247.1	29877.2
42.5°	43942.6	43578.5	43388.1	42229.4	40921.8	38923.1	36626.4	36336.8	39800.4	31391.7
45°	43843.3	43694.3	44281.9	44762.0	44451.6	43342.6	40805.9	39494.1	42361.9	32703.5
47.5°	41501.1	41600.4	42912.2	45610.3	46797.9	47377.2	45564.8	42593.6	44588.2	33684.2
50°	35128.4	35211.2	38248.6	44066.8	47402.1	50667.0	50286.3	45618.6	46313.8	34284.3
52.5°	30084.1	30137.9	31441.4	39490.0	45407.5	52322.3	54540.3	48469.7	47575.9	34449.8
55°	22660.3	22846.5	24307.3	30982.0	40218.3	51010.5	57130.8	51407.8	48374.5	34466.3
57.5°	13237.8	13440.6	15244.8	21029.9	31259.3	46437.9	57523.9	54014.8	48916.6	34333.9
60°	6484.4	6571.3	7357.6	11052.9	19275.3	37627.9	54362.4	55276.9	49218.7	34263.6
62.5°	4369.8	4357.4	4390.5	5454.0	9497.0	24174.9	47774.5	53067.2	49057.3	33994.6
65°	3757.4	3711.9	3587.7	3827.8	4920.2	11057.0	36912.0	46471.0	47828.3	33320.1
67.5°	3248.4	3252.6	3256.7	3182.2	3513.3	5102.3	22556.9	36605.7	43417.1	30125.5
70°	2689.8	2727.0	2743.6	2743.6	2863.6	3347.7	9629.4	25089.4	34247.0	23620.3
72.5°	2449.8	2371.1	2379.4	2338.0	2338.0	2549.1	3877.4	14222.7	21576.1	13287.5
75°	1998.7	2048.4	2056.6	2027.7	1932.5	1944.9	2300.8	5967.2	9232.1	5512.0
77.5°	1725.6	1725.6	1742.1	1721.5	1647.0	1456.6	1535.2	2313.2	3140.8	2259.4
80°	1386.3	1382.1	1452.5	1493.9	1378.0	1075.9	980.7	1278.7	1394.5	993.1
82.5°	674.5	715.9	997.3	1138.0	1046.9	778.0	600.0	794.5	744.9	438.6
85°	393.1	372.4	446.9	633.1	600.0	430.4	289.7	413.8	389.0	223.5
87.5°	124.1	115.9	91.0	215.2	173.8	120.0	78.6	120.0	107.6	49.7
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°
20057.4	0°	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4	20057.4
20123.6	2.5°	19829.8	19341.5	18857.4	18414.6	18145.6	17971.8	17798.0	17603.5	17529.0	17417.3
20177.4	5°	19631.2	18687.7	17847.7	17123.5	16465.5	15948.3	15426.9	15004.8	14814.4	14942.7
20347.1	7.5°	19515.3	18149.8	16854.5	15526.2	14247.5	13225.4	12335.7	11710.9	11429.5	11499.8
20512.6	10°	19411.9	17541.5	15567.6	13469.6	11632.2	10366.0	9455.6	8979.7	8801.8	8839.0
20736.1	12.5°	19316.7	16858.7	14015.8	11255.7	9302.5	8466.6	8205.9	8210.0	8243.1	8267.9
21092.0	15°	19300.2	16035.2	12281.9	9319.0	8044.5	7990.7	8272.1	8450.0	8545.2	8574.2
21389.9	17.5°	19275.3	15050.3	10514.9	7999.0	7738.3	8102.4	8363.1	8479.0	8553.5	8557.6
21679.6	20°	19176.0	13800.6	8884.5	7370.0	7672.1	7986.6	8147.9	8239.0	8301.1	8321.7
21898.9	22.5°	18869.8	12410.2	7614.1	7088.6	7407.2	7659.6	7850.0	7953.5	7990.7	8015.5
21940.3	25°	18319.4	10854.3	6736.8	6819.6	7038.9	7357.6	7510.7	7531.4	7519.0	7556.2
21836.8	27.5°	17599.4	9186.6	6190.6	6455.5	6736.8	7010.0	7092.7	7080.3	7055.5	7096.9
21658.9	30°	16730.4	7688.6	5843.0	6045.8	6430.6	6678.9	6753.4	6724.4	6674.8	6720.3
21567.8	32.5°	15811.7	6463.7	5557.5	5760.3	6178.2	6422.4	6496.8	6467.9	6430.6	6467.9
21671.3	35°	14955.1	5607.1	5292.6	5569.9	5979.6	6219.6	6314.8	6318.9	6318.9	6364.4
21944.4	37.5°	14168.9	5106.4	5073.3	5449.9	5843.0	6058.2	6194.8	6203.0	6025.1	6037.5
22407.9	40°	13440.6	4895.4	4974.0	5371.3	5710.6	5917.5	5925.8	5462.3	5135.4	5127.1
22937.6	42.5°	12844.7	4854.0	5003.0	5363.0	5615.4	5623.7	5040.2	4680.2	4589.2	4593.3
23425.9	45°	12286.1	4841.6	5069.2	5363.0	5474.7	4858.1	4465.0	4369.8	4378.1	4411.2
23645.2	47.5°	11661.2	4791.9	5081.6	5288.5	5069.2	4320.2	4204.3	4162.9	4146.4	4154.7
23595.5	50°	10978.4	4614.0	4924.4	5139.5	4374.0	4088.5	3943.6	3931.2	3951.9	3964.3
23318.3	52.5°	10258.4	4324.3	4655.4	4870.6	4055.4	3885.7	3724.3	3753.3	3844.3	3873.3
23028.6	55°	9786.6	3985.0	4299.5	4332.6	3831.9	3695.3	3558.8	3625.0	3794.6	3848.4
22854.8	57.5°	9662.5	3625.0	3894.0	3856.7	3546.4	3529.8	3447.0	3505.0	3720.2	3798.8
22846.5	60°	9625.2	3302.2	3496.7	3467.7	3269.1	3347.7	3327.0	3356.0	3430.5	3455.3
22763.8	62.5°	9335.6	3045.7	3140.8	3099.4	3020.8	3157.4	3207.0	3145.0	3202.9	3231.9
22196.8	65°	8599.0	2838.7	2793.2	2764.3	2797.4	2921.5	3020.8	2896.7	2950.5	3033.2
20011.9	67.5°	7382.4	2557.4	2433.2	2466.3	2569.8	2636.0	2764.3	2623.6	2669.1	2809.8
16117.9	70°	5971.3	2201.5	2089.7	2184.9	2284.2	2420.8	2441.5	2346.3	2453.9	2611.1
9836.3	72.5°	4225.0	1841.5	1762.8	1957.3	1990.4	2168.4	2122.9	2077.3	2226.3	2280.1
4862.3	75°	2929.8	1485.6	1440.1	1589.0	1709.0	1862.2	1829.0	1882.8	2197.3	2222.2
2429.1	77.5°	1853.9	1154.5	1125.6	1220.7	1386.3	1555.9	1609.7	2222.2	3753.3	3902.2
1262.1	80°	1075.9	860.7	827.6	902.1	1046.9	1204.2	1551.8	2727.0	2474.6	2445.6
566.9	82.5°	600.0	591.8	550.4	571.1	699.3	869.0	2193.2	1920.1	1560.1	1609.7
227.6	85°	281.4	347.6	297.9	285.5	393.1	1018.0	1464.9	1096.6	728.3	711.8
49.7	87.5°	74.5	66.2	66.2	74.5	165.5	877.3	583.5	467.6	277.3	269.0
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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