

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: P957664

Luminaire Tested: **GALN-SB9D-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957664  
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-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

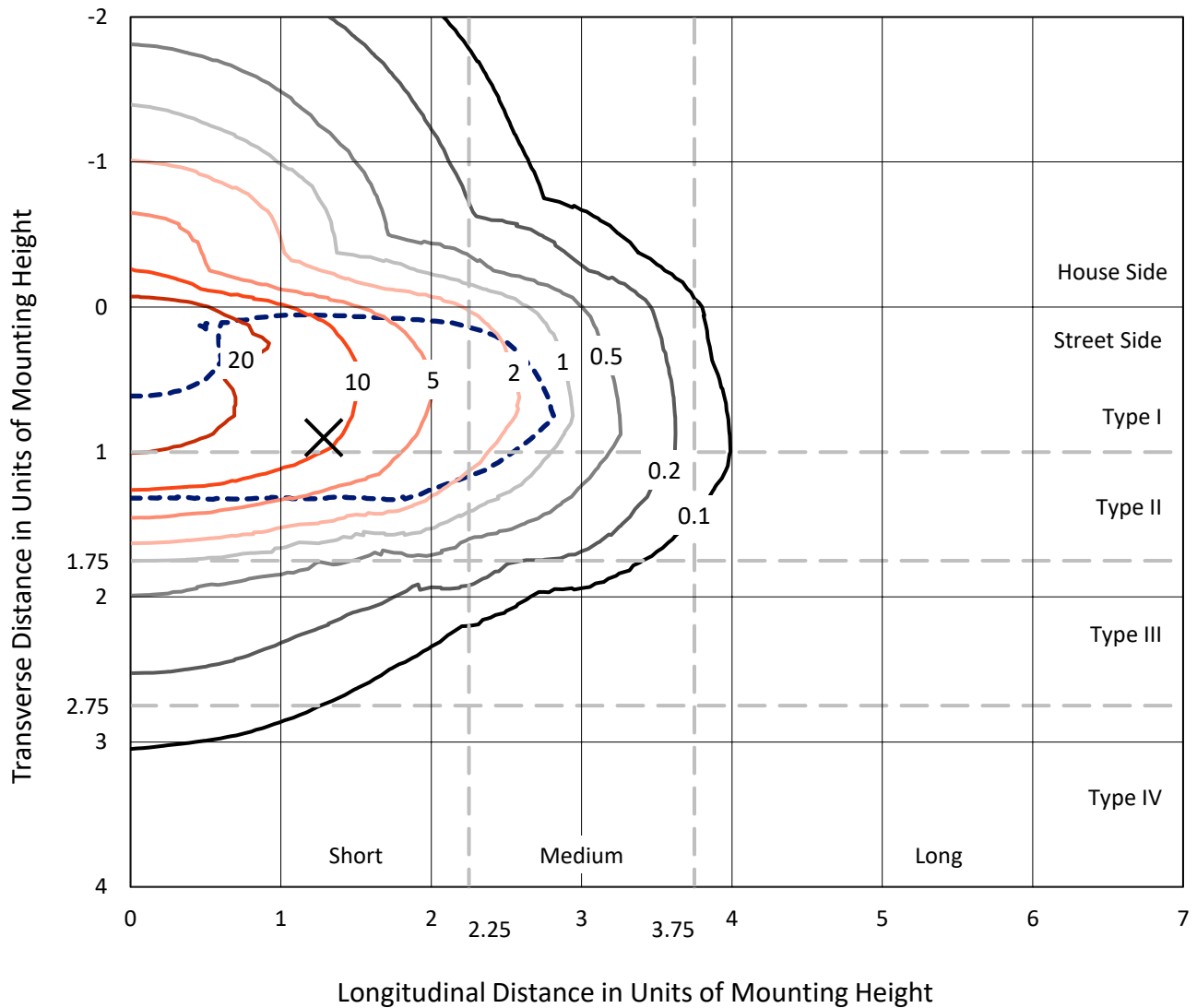
Lumens per Lamp: N/A  
Luminaire Lumens: 65576 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

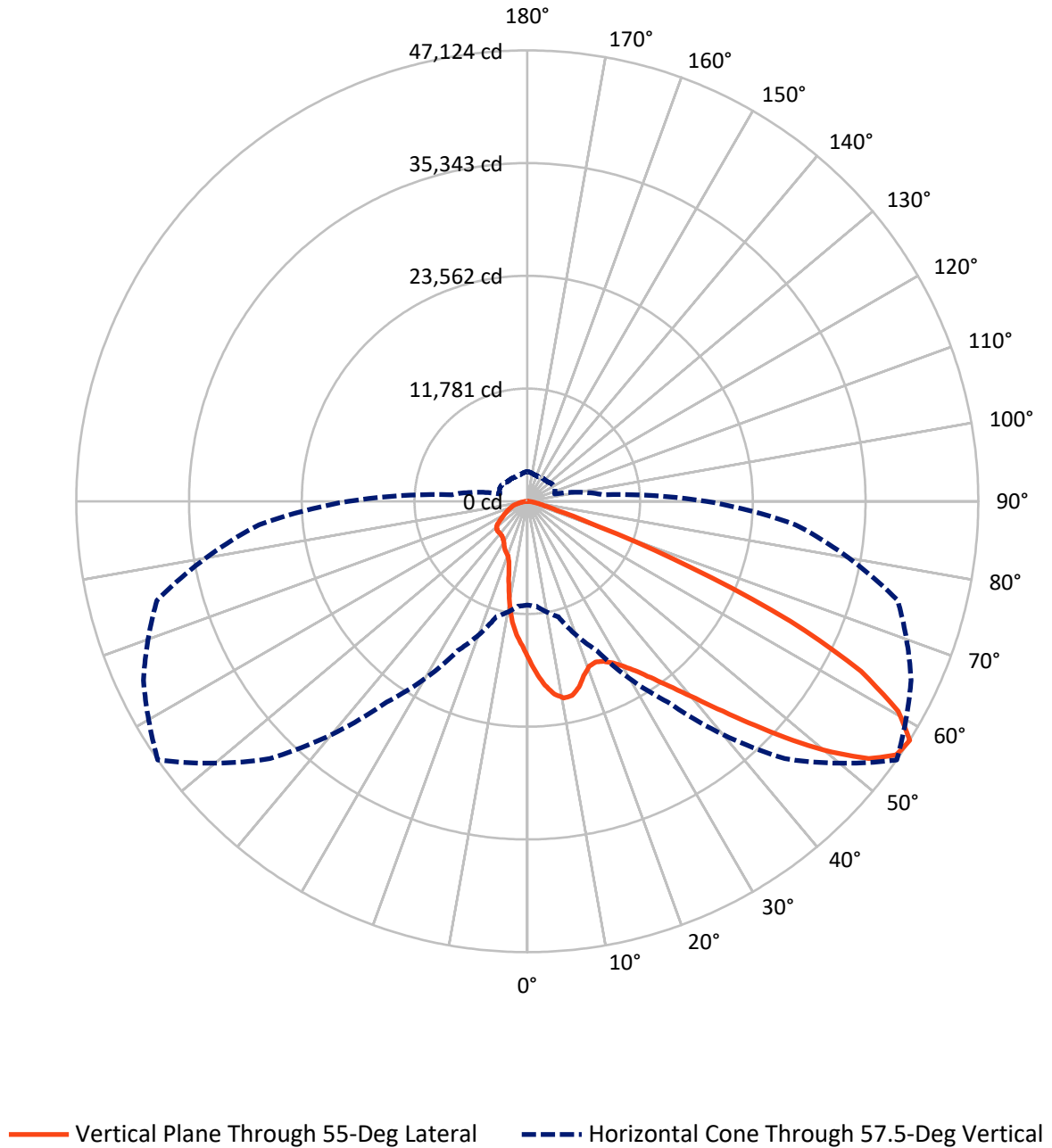
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11865.6	0.0	11865.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	53710.3	0.0	53710.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	65576.0	0.0	65576.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1524.7	2.3
10°-20°	3848.5	5.9
20°-30°	6141.1	9.4
30°-40°	9722.8	14.8
40°-50°	14881.7	22.7
50°-60°	15939.7	24.3
60°-70°	10027.8	15.3
70°-80°	2965.4	4.5
80°-90°	524.3	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°	65576.0	100.0
0°-180°	65576.0	100.0

**Coefficient of Utilization**



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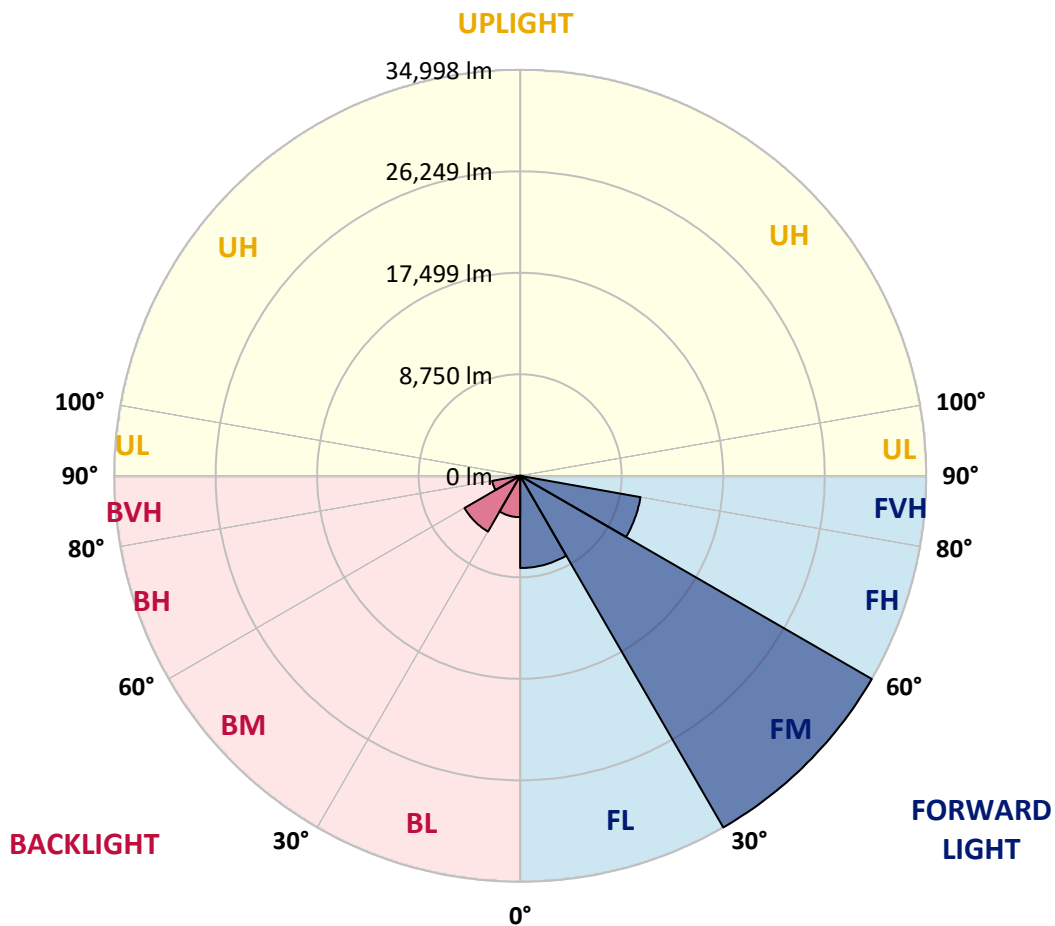
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7947.8	12.1			
FM (30°-60°)	34998.4	53.4			
FH (60°-80°)	10542.6	16.1			G4/12000
FVH (80°-90°)	221.5	0.3			G2/225
BL (0°-30°)	3566.4	5.4	B4/5000		
BM (30°-60°)	5545.9	8.5	B4/8500		
BH (60°-80°)	2450.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	302.8	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2
2.5°	18851.7	18838.1	18912.7	18658.4	18485.5	18251.6	17943.1	17549.9	17126.2	16678.7
5°	20550.0	20431.4	20509.4	20319.5	20129.7	19777.1	19319.5	18678.8	17895.7	17004.1
7.5°	20282.2	20200.9	20400.9	20570.4	20712.8	20668.7	20333.1	19661.9	18651.7	17356.7
10°	18122.8	18031.3	18312.7	18899.1	19760.2	20509.4	20916.2	20499.2	19424.6	17743.1
12.5°	16217.6	16173.6	16360.0	16834.6	17790.6	19227.9	20841.6	21231.4	20228.0	18200.8
15°	15404.1	15349.8	15468.5	15709.2	16319.3	17658.4	20163.6	21733.1	21017.9	18729.6
17.5°	15224.4	15163.4	15214.2	15339.6	15732.9	16753.3	19139.8	21980.6	21841.6	19319.5
20°	15556.6	15505.8	15512.5	15505.8	15780.3	16590.5	18427.9	21885.7	22560.3	19861.9
22.5°	16360.0	16275.3	16278.7	16099.0	16248.2	16875.3	18241.5	21631.4	23201.0	20336.5
25°	17668.6	17516.0	17546.5	17088.9	17048.2	17512.6	18533.0	21434.8	23838.3	20716.1
27.5°	19458.5	19285.6	19194.0	18512.7	18187.2	18417.7	19126.2	21502.6	24441.7	21045.0
30°	21695.9	21485.7	21299.2	20333.1	19743.2	19658.5	20048.3	21950.1	25153.6	21390.8
32.5°	24438.3	24194.3	23855.3	22573.9	21743.3	21299.2	21241.6	22746.7	25987.6	21831.4
35°	27702.9	27384.2	26902.9	25245.2	24194.3	23285.7	22814.5	23895.9	27130.0	22495.9
37.5°	31065.7	30706.4	30265.7	28292.7	27001.2	25662.1	24733.3	25455.3	28652.1	23397.6
40°	34167.6	33764.2	33354.0	31598.0	30211.5	28597.8	27082.5	27428.3	30513.2	24475.6
42.5°	35998.2	35699.8	35543.9	34594.7	33523.5	31886.1	30004.7	29767.4	32604.8	25716.4
45°	35916.8	35794.8	36276.1	36669.4	36415.1	35506.6	33428.6	32353.9	34703.2	26791.0
47.5°	33998.1	34079.4	35154.1	37364.3	38337.2	38811.8	37327.0	34893.0	36527.0	27594.4
50°	28777.5	28845.3	31333.6	36099.9	38832.2	41506.9	41195.0	37371.1	37940.6	28086.0
52.5°	24645.1	24689.2	25757.0	32350.5	37198.2	42862.9	44679.9	39706.8	38974.6	28221.6
55°	18563.5	18716.1	19912.7	25380.8	32947.2	41788.2	46802.0	42113.7	39628.8	28235.1
57.5°	10844.5	11010.6	12488.7	17227.9	25607.9	38042.3	47124.1	44249.4	40072.9	28126.6
60°	5312.1	5383.3	6027.4	9054.6	15790.5	30825.1	44534.1	45283.3	40320.4	28069.0
62.5°	3579.8	3569.6	3596.8	4468.0	7780.0	19804.2	39137.3	43473.1	40188.2	27848.7
65°	3078.1	3040.8	2939.1	3135.7	4030.7	9058.0	30238.6	38069.4	39181.4	27296.1
67.5°	2661.1	2664.5	2667.9	2606.9	2878.1	4179.8	18478.8	29987.7	35567.6	24679.0
70°	2203.5	2234.0	2247.6	2247.6	2345.9	2742.5	7888.5	20553.4	28055.4	19350.0
72.5°	2006.9	1942.5	1949.2	1915.3	1915.3	2088.2	3176.4	11651.3	17675.3	10885.2
75°	1637.4	1678.0	1684.8	1661.1	1583.1	1593.3	1884.8	4888.3	7563.0	4515.4
77.5°	1413.6	1413.6	1427.2	1410.2	1349.2	1193.3	1257.7	1895.0	2573.0	1850.9
80°	1135.6	1132.3	1189.9	1223.8	1128.9	881.4	803.4	1047.5	1142.4	813.6
82.5°	552.6	586.5	817.0	932.2	857.7	637.3	491.5	650.9	610.2	359.3
85°	322.0	305.1	366.1	518.7	491.5	352.6	237.3	339.0	318.7	183.1
87.5°	101.7	94.9	74.6	176.3	142.4	98.3	64.4	98.3	88.1	40.7
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°
16431.2	0°	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2	16431.2
16485.5	2.5°	16244.8	15844.8	15448.1	15085.4	14865.0	14722.7	14580.3	14421.0	14359.9	14268.4
16529.5	5°	16082.0	15309.1	14621.0	14027.7	13488.7	13065.0	12637.8	12292.1	12136.1	12241.2
16668.5	7.5°	15987.1	14868.4	13807.4	12719.2	11671.7	10834.4	10105.5	9593.6	9363.1	9420.7
16804.1	10°	15902.4	14370.1	12753.1	11034.4	9529.2	8491.9	7746.1	7356.2	7210.5	7241.0
16987.2	12.5°	15824.4	13810.8	11481.9	9220.7	7620.7	6935.9	6722.3	6725.7	6752.8	6773.2
17278.7	15°	15810.9	13136.2	10061.5	7634.2	6590.1	6546.0	6776.6	6922.3	7000.3	7024.0
17522.8	17.5°	15790.5	12329.3	8613.9	6552.8	6339.3	6637.6	6851.1	6946.1	7007.1	7010.5
17760.1	20°	15709.2	11305.6	7278.3	6037.5	6285.0	6542.7	6674.9	6749.4	6800.3	6817.2
17939.8	22.5°	15458.3	10166.5	6237.6	5807.0	6068.1	6274.8	6430.8	6515.5	6546.0	6566.4
17973.7	25°	15007.4	8891.9	5518.9	5586.7	5766.4	6027.4	6152.8	6169.8	6159.6	6190.1
17888.9	27.5°	14417.6	7525.7	5071.4	5288.4	5518.9	5742.6	5810.4	5800.3	5779.9	5813.8
17743.1	30°	13705.7	6298.6	4786.6	4952.8	5268.0	5471.4	5532.4	5508.7	5468.0	5505.3
17668.6	32.5°	12953.1	5295.1	4552.7	4718.8	5061.2	5261.2	5322.3	5298.5	5268.0	5298.5
17753.3	35°	12251.4	4593.4	4335.8	4562.9	4898.5	5095.1	5173.1	5176.5	5176.5	5213.8
17977.0	37.5°	11607.3	4183.2	4156.1	4464.6	4786.6	4962.9	5074.8	5081.6	4935.8	4946.0
18356.7	40°	11010.6	4010.3	4074.8	4400.2	4678.2	4847.7	4854.4	4474.8	4207.0	4200.2
18790.6	42.5°	10522.5	3976.4	4098.5	4393.4	4600.2	4607.0	4129.0	3834.1	3759.5	3762.9
19190.7	45°	10064.8	3966.3	4152.7	4393.4	4484.9	3979.8	3657.8	3579.8	3586.6	3613.7
19370.3	47.5°	9553.0	3925.6	4162.9	4332.4	4152.7	3539.1	3444.2	3410.3	3396.8	3403.5
19329.6	50°	8993.6	3779.8	4034.1	4210.4	3583.2	3349.3	3230.6	3220.5	3237.4	3247.6
19102.5	52.5°	8403.8	3542.5	3813.7	3990.0	3322.2	3183.2	3051.0	3074.7	3149.3	3173.0
18865.2	55°	8017.3	3264.5	3522.2	3549.3	3139.1	3027.2	2915.4	2969.6	3108.6	3152.7
18722.8	57.5°	7915.6	2969.6	3190.0	3159.5	2905.2	2891.7	2823.9	2871.3	3047.6	3112.0
18716.1	60°	7885.1	2705.2	2864.5	2840.8	2678.1	2742.5	2725.5	2749.3	2810.3	2830.6
18648.3	62.5°	7647.8	2495.0	2573.0	2539.1	2474.7	2586.6	2627.2	2576.4	2623.8	2647.6
18183.8	65°	7044.4	2325.5	2288.2	2264.5	2291.6	2393.3	2474.7	2373.0	2417.1	2484.9
16393.9	67.5°	6047.7	2095.0	1993.3	2020.4	2105.2	2159.4	2264.5	2149.2	2186.5	2301.8
13204.0	70°	4891.7	1803.5	1711.9	1789.9	1871.3	1983.1	2000.1	1922.1	2010.3	2139.1
8058.0	72.5°	3461.2	1508.5	1444.1	1603.5	1630.6	1776.3	1739.1	1701.8	1823.8	1867.9
3983.2	75°	2400.1	1217.0	1179.7	1301.8	1400.1	1525.5	1498.4	1542.4	1800.1	1820.4
1989.9	77.5°	1518.7	945.8	922.1	1000.0	1135.6	1274.6	1318.7	1820.4	3074.7	3196.7
1033.9	80°	881.4	705.1	678.0	739.0	857.7	986.5	1271.2	2234.0	2027.2	2003.5
464.4	82.5°	491.5	484.8	450.9	467.8	572.9	711.9	1796.7	1572.9	1278.0	1318.7
186.4	85°	230.5	284.8	244.1	233.9	322.0	833.9	1200.1	898.3	596.6	583.1
40.7	87.5°	61.0	54.2	54.2	61.0	135.6	718.7	478.0	383.1	227.1	220.3
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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