

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: P954577

Luminaire Tested: **GALN-SB7D-750-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954577  
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-SB7D-750-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

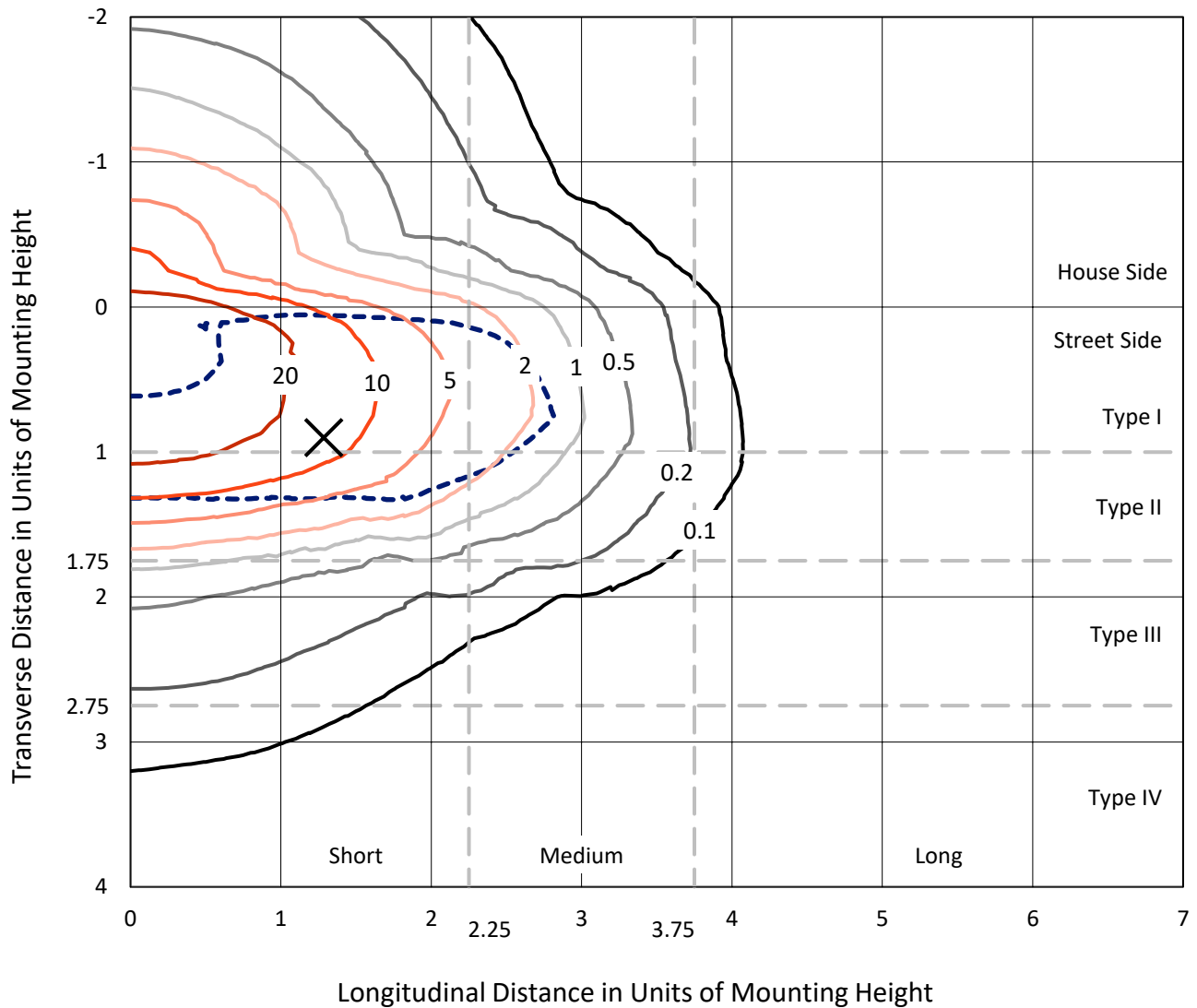
Lumens per Lamp: N/A  
Luminaire Lumens: 77868 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

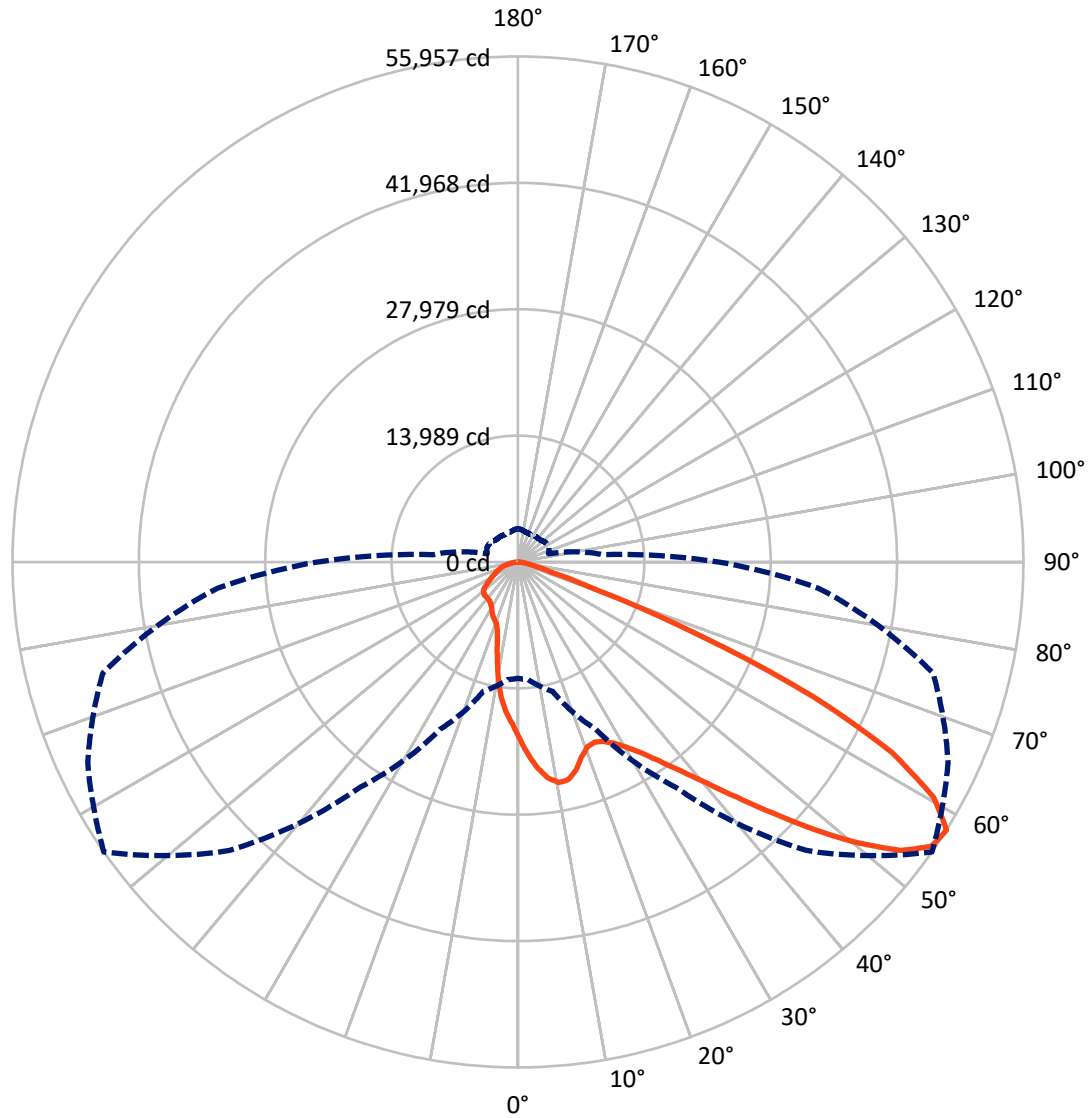
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 37.7 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	14089.8	0.0	14089.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	63778.2	0.0	63778.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	77868.0	0.0	77868.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1810.5	2.3
10°-20°	4569.8	5.9
20°-30°	7292.2	9.4
30°-40°	11545.3	14.8
40°-50°	17671.3	22.7
50°-60°	18927.6	24.3
60°-70°	11907.4	15.3
70°-80°	3521.3	4.5
80°-90°	622.6	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°	77868.0	100.0
0°-180°	77868.0	100.0



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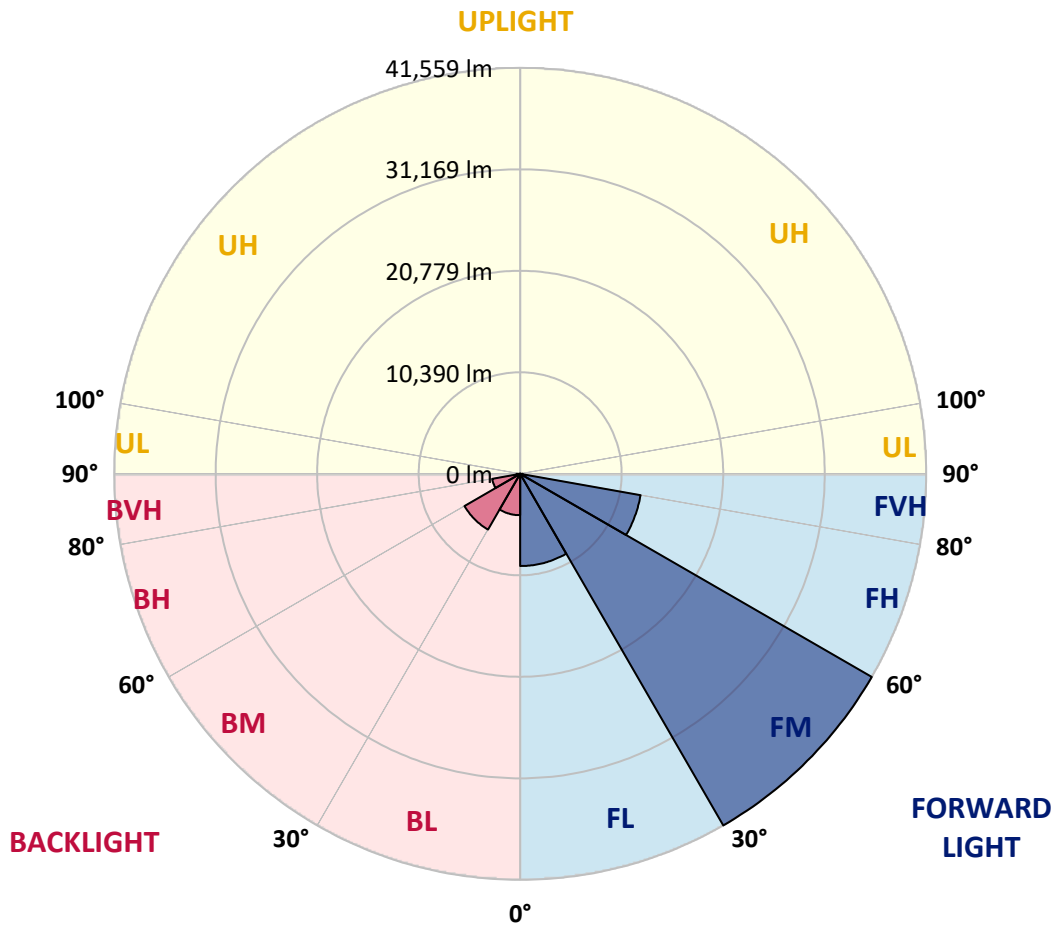
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9437.6	12.1			
FM (30°-60°)	41558.7	53.4			
FH (60°-80°)	12518.8	16.1			G5
FVH (80°-90°)	263.1	0.3			G3/500
BL (0°-30°)	4234.9	5.4	B4/5000		
BM (30°-60°)	6585.5	8.5	B4/8500		
BH (60°-80°)	2909.9	3.7	B4/5000		G4/5000
BVH (80°-90°)	359.5	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°	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2
2.5°	22385.3	22369.2	22457.8	22155.9	21950.6	21672.8	21306.5	20839.6	20336.4	19805.0
5°	24402.1	24261.2	24353.8	24128.3	23902.9	23484.3	22940.8	22180.0	21250.2	20191.5
7.5°	24084.1	23987.5	24225.0	24426.2	24595.3	24543.0	24144.4	23347.4	22147.8	20610.1
10°	21519.9	21411.2	21745.3	22441.7	23464.2	24353.8	24836.8	24341.7	23065.6	21069.0
12.5°	19257.6	19205.3	19426.7	19990.2	21125.4	22832.2	24748.3	25211.2	24019.7	21612.5
15°	18291.5	18227.1	18368.0	18653.8	19378.4	20968.4	23943.2	25806.9	24957.6	22240.4
17.5°	18078.1	18005.7	18066.1	18215.0	18682.0	19893.6	22727.5	26100.8	25935.8	22940.8
20°	18472.6	18412.3	18420.3	18412.3	18738.3	19700.4	21882.2	25988.1	26789.1	23584.9
22.5°	19426.7	19326.0	19330.0	19116.7	19293.8	20038.5	21660.8	25686.2	27549.9	24148.5
25°	20980.5	20799.3	20835.6	20292.1	20243.8	20795.3	22007.0	25452.7	28306.7	24599.3
27.5°	23105.9	22900.6	22791.9	21982.8	21596.4	21870.1	22711.4	25533.2	29023.3	24989.8
30°	25762.7	25513.1	25291.7	24144.4	23444.0	23343.4	23806.3	26064.6	29868.6	25400.4
32.5°	29019.2	28729.4	28326.9	26805.2	25819.0	25291.7	25223.3	27010.5	30858.8	25923.7
35°	32895.7	32517.3	31945.7	29977.3	28729.4	27650.6	27091.1	28375.2	32215.4	26712.7
37.5°	36888.9	36462.2	35938.9	33596.1	32062.4	30472.4	29369.4	30226.9	34022.8	27783.4
40°	40572.2	40093.1	39606.1	37520.9	35874.5	33958.4	32159.1	32569.6	36232.8	29063.5
42.5°	42745.9	42391.7	42206.5	41079.4	39807.3	37863.1	35629.0	35347.2	38716.5	30536.8
45°	42649.3	42504.4	43076.0	43542.9	43241.0	42162.2	39694.6	38418.6	41208.2	31812.9
47.5°	40370.9	40467.5	41743.6	44368.1	45523.4	46087.0	44323.9	41433.6	43373.9	32766.9
50°	34171.8	34252.3	37206.9	42866.7	46111.1	49287.2	48916.9	44376.2	45052.5	33350.6
52.5°	29264.8	29317.1	30585.1	38414.5	44170.9	50897.4	53055.0	47149.7	46280.2	33511.6
55°	22043.2	22224.3	23645.3	30138.3	39123.0	49621.3	55574.9	50007.7	47057.1	33527.7
57.5°	12877.3	13074.6	14829.6	20457.2	30408.0	45173.2	55957.3	52543.8	47584.4	33398.9
60°	6307.8	6392.4	7157.2	10751.9	18750.4	36603.1	52881.9	53771.5	47878.3	33330.4
62.5°	4250.8	4238.8	4271.0	5305.5	9238.3	23516.5	46473.4	51621.9	47721.3	33068.8
65°	3655.1	3610.8	3490.0	3723.5	4786.2	10755.9	35906.7	45205.4	46525.8	32412.7
67.5°	3160.0	3164.0	3168.0	3095.5	3417.6	4963.3	21942.5	35608.8	42234.7	29305.0
70°	2616.5	2652.7	2668.9	2668.9	2785.6	3256.6	9367.1	24406.1	33314.3	22977.1
72.5°	2383.0	2306.6	2314.6	2274.4	2274.4	2479.7	3771.8	13835.4	20988.5	12925.6
75°	1944.3	1992.6	2000.6	1972.5	1879.9	1891.9	2238.1	5804.7	8980.7	5361.9
77.5°	1678.6	1678.6	1694.7	1674.6	1602.1	1416.9	1493.4	2250.2	3055.3	2197.9
80°	1348.5	1344.5	1412.9	1453.2	1340.5	1046.6	954.0	1243.9	1356.6	966.1
82.5°	656.1	696.4	970.1	1107.0	1018.4	756.8	583.7	772.9	724.6	426.7
85°	382.4	362.3	434.7	615.9	583.7	418.6	281.8	402.5	378.4	217.4
87.5°	120.8	112.7	88.6	209.3	169.1	116.7	76.5	116.7	104.7	48.3
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°
19511.2	0°	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2	19511.2
19575.6	2.5°	19289.8	18814.8	18343.8	17913.1	17651.5	17482.4	17313.3	17124.1	17051.7	16943.0
19627.9	5°	19096.6	18178.8	17361.6	16657.2	16017.1	15514.0	15006.8	14596.2	14411.0	14535.8
19793.0	7.5°	18983.9	17655.5	16395.5	15103.4	13859.5	12865.2	11999.8	11391.9	11118.2	11186.6
19954.0	10°	18883.2	17063.7	15143.6	13102.7	11315.4	10083.7	9198.1	8735.2	8562.1	8598.3
20171.4	12.5°	18790.6	16399.5	13634.1	10949.1	9049.1	8236.0	7982.4	7986.4	8018.6	8042.8
20517.5	15°	18774.5	15598.5	11947.4	9065.2	7825.4	7773.1	8046.8	8219.9	8312.5	8340.7
20807.4	17.5°	18750.4	14640.4	10228.6	7781.1	7527.5	7881.8	8135.4	8248.1	8320.5	8324.6
21089.2	20°	18653.8	13424.8	8642.6	7169.3	7463.1	7769.1	7926.0	8014.6	8075.0	8095.1
21302.5	22.5°	18355.9	12072.2	7406.8	6895.5	7205.5	7451.0	7636.2	7736.9	7773.1	7797.2
21342.8	25°	17820.5	10558.7	6553.4	6633.9	6847.2	7157.2	7306.1	7326.3	7314.2	7350.4
21242.1	27.5°	17120.1	8936.4	6022.0	6279.6	6553.4	6819.1	6899.6	6887.5	6863.3	6903.6
21069.0	30°	16274.8	7479.2	5683.9	5881.1	6255.5	6497.0	6569.5	6541.3	6493.0	6537.3
20980.5	32.5°	15381.1	6287.7	5406.1	5603.4	6009.9	6247.4	6319.9	6291.7	6255.5	6291.7
21081.1	35°	14547.9	5454.4	5148.5	5418.2	5816.7	6050.2	6142.8	6146.8	6146.8	6191.1
21346.8	37.5°	13783.0	4967.4	4935.2	5301.5	5683.9	5893.2	6026.0	6034.1	5861.0	5873.1
21797.6	40°	13074.6	4762.1	4838.6	5225.0	5555.1	5756.3	5764.4	5313.5	4995.5	4987.5
22312.9	42.5°	12494.9	4721.8	4866.7	5216.9	5462.5	5470.5	4903.0	4552.7	4464.2	4468.2
22787.9	45°	11951.5	4709.7	4931.1	5216.9	5325.6	4725.8	4343.4	4250.8	4258.9	4291.1
23001.2	47.5°	11343.6	4661.4	4943.2	5144.5	4931.1	4202.5	4089.8	4049.6	4033.5	4041.5
22952.9	50°	10679.4	4488.3	4790.2	4999.6	4254.9	3977.1	3836.2	3824.1	3844.3	3856.3
22683.2	52.5°	9979.0	4206.6	4528.6	4737.9	3944.9	3779.9	3622.9	3651.1	3739.6	3767.8
22401.4	55°	9520.1	3876.5	4182.4	4214.6	3727.5	3594.7	3461.9	3526.3	3691.3	3743.6
22232.4	57.5°	9399.3	3526.3	3787.9	3751.7	3449.8	3433.7	3353.2	3409.5	3618.8	3695.3
22224.3	60°	9363.1	3212.3	3401.5	3373.3	3180.1	3256.6	3236.4	3264.6	3337.1	3361.2
22143.8	62.5°	9081.3	2962.7	3055.3	3015.0	2938.6	3071.4	3119.7	3059.3	3115.7	3143.9
21592.3	65°	8364.8	2761.4	2717.2	2689.0	2721.2	2841.9	2938.6	2817.8	2870.1	2950.6
19466.9	67.5°	7181.3	2487.7	2366.9	2399.1	2499.8	2564.2	2689.0	2552.1	2596.4	2733.3
15679.0	70°	5808.7	2141.5	2032.8	2125.4	2222.0	2354.9	2375.0	2282.4	2387.1	2540.0
9568.4	72.5°	4110.0	1791.3	1714.8	1904.0	1936.2	2109.3	2065.0	2020.8	2165.7	2218.0
4729.9	75°	2850.0	1445.1	1400.8	1545.8	1662.5	1811.4	1779.2	1831.6	2137.5	2161.6
2362.9	77.5°	1803.4	1123.1	1094.9	1187.5	1348.5	1513.6	1565.9	2161.6	3651.1	3796.0
1227.8	80°	1046.6	837.3	805.1	877.5	1018.4	1171.4	1509.5	2652.7	2407.2	2379.0
551.5	82.5°	583.7	575.6	535.4	555.5	680.3	845.3	2133.5	1867.8	1517.6	1565.9
221.4	85°	273.7	338.1	289.8	277.8	382.4	990.3	1425.0	1066.7	708.5	692.4
48.3	87.5°	72.5	64.4	64.4	72.5	161.0	853.4	567.6	454.9	269.7	261.7
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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