

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: P951679

Luminaire Tested: **GALN-SB5D-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951679  
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-SB5D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

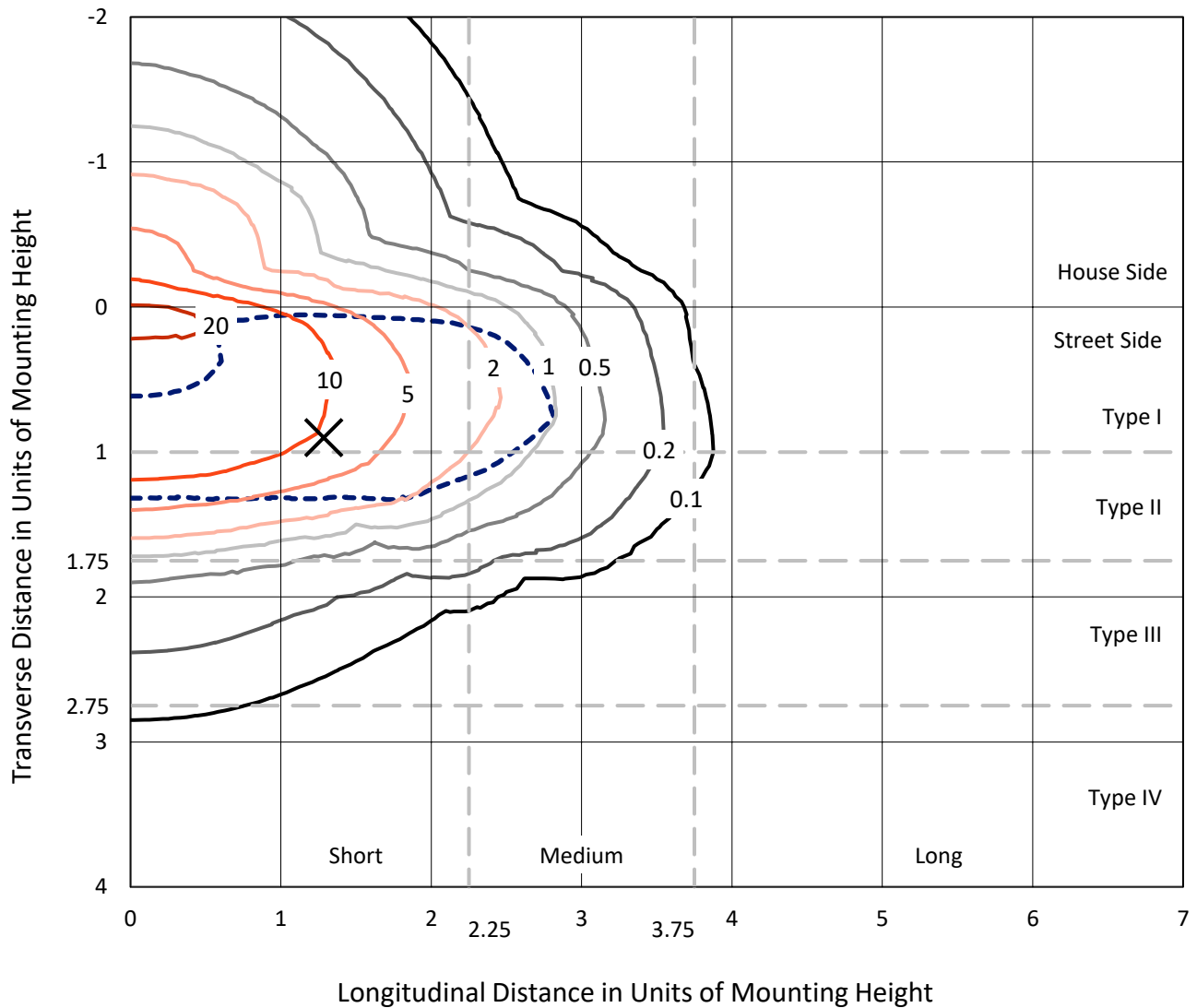
Lumens per Lamp: N/A  
Luminaire Lumens: 52279 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

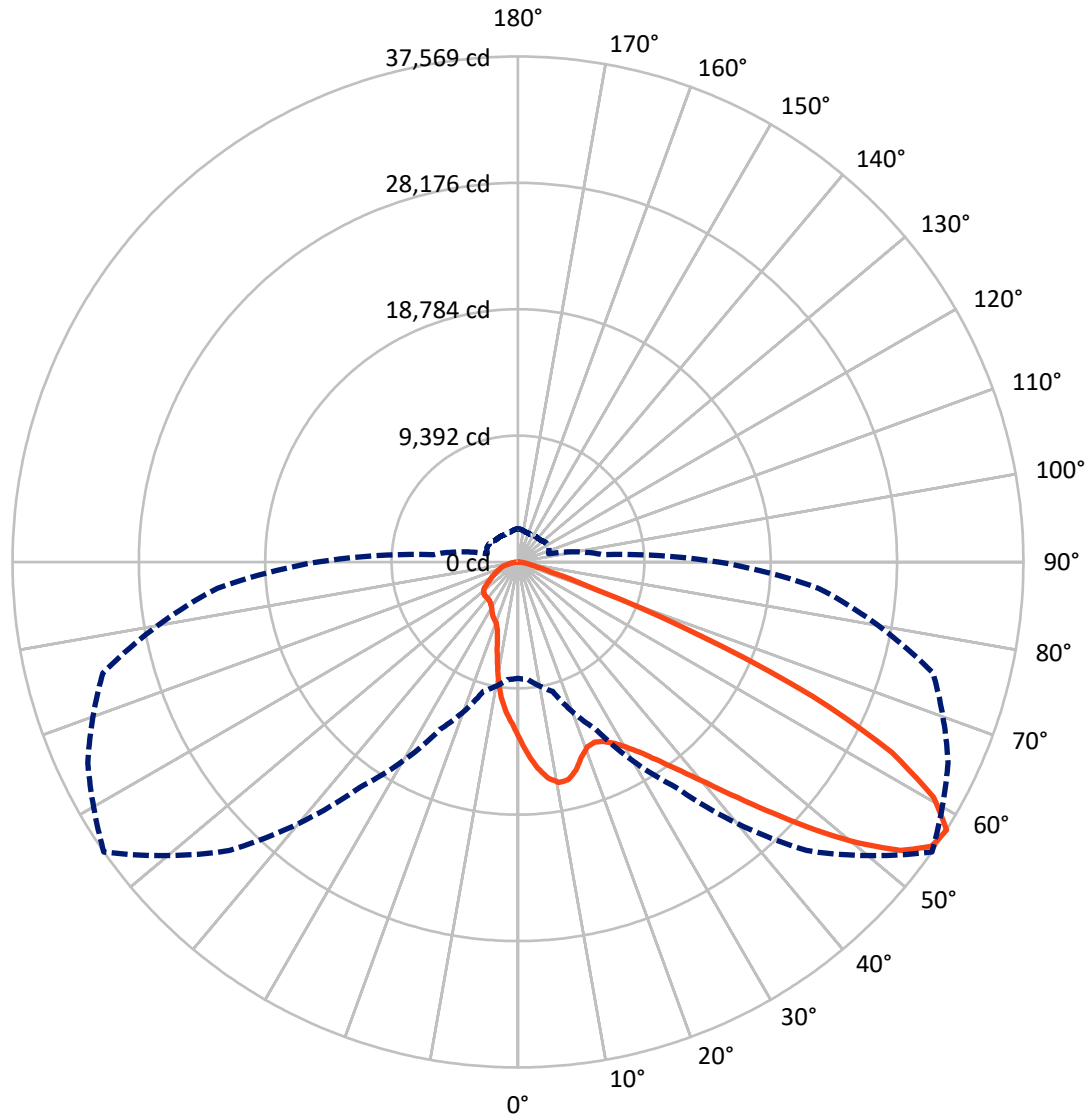
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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	9459.6	0.0	9459.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	42819.4	0.0	42819.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	52279.0	0.0	52279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1215.5	2.3
10°-20°	3068.1	5.9
20°-30°	4895.8	9.4
30°-40°	7751.3	14.8
40°-50°	11864.1	22.7
50°-60°	12707.6	24.3
60°-70°	7994.4	15.3
70°-80°	2364.1	4.5
80°-90°	418.0	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°	52279.0	100.0
0°-180°	52279.0	100.0

**Coefficient of Utilization**



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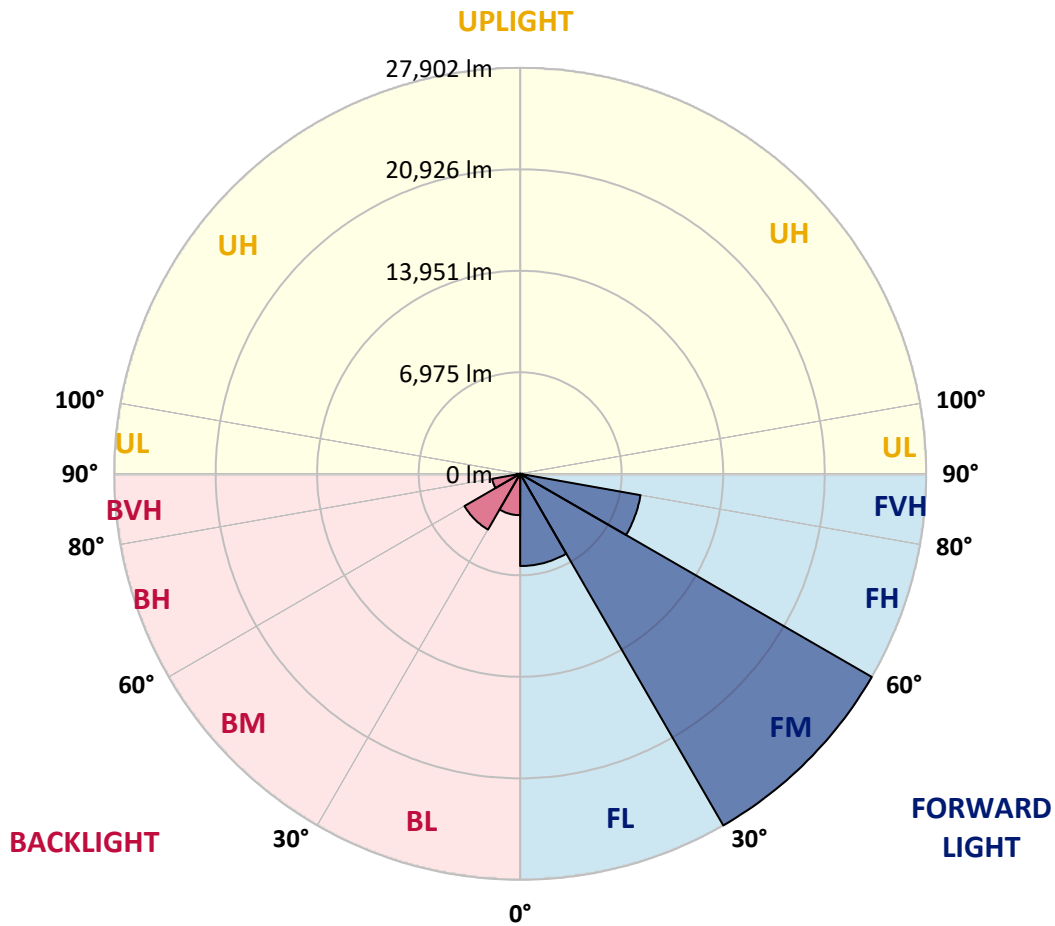
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6336.2	12.1			
FM (30°-60°)	27901.7	53.4			
FH (60°-80°)	8404.9	16.1			G4/12000
FVH (80°-90°)	176.6	0.3			G2/225
BL (0°-30°)	2843.2	5.4	B4/5000		
BM (30°-60°)	4421.3	8.5	B3/5000		
BH (60°-80°)	1953.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	241.4	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°	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4
2.5°	15029.1	15018.3	15077.7	14875.0	14737.2	14550.7	14304.8	13991.3	13653.4	13296.7
5°	16383.1	16288.5	16350.6	16199.3	16047.9	15766.9	15402.0	14891.2	14266.9	13556.2
7.5°	16169.6	16104.7	16264.1	16399.3	16512.8	16477.6	16210.1	15675.0	14869.6	13837.2
10°	14448.0	14375.0	14599.4	15066.9	15753.4	16350.6	16674.9	16342.5	15485.8	14145.3
12.5°	12929.2	12894.0	13042.7	13421.0	14183.2	15329.1	16615.5	16926.3	16126.3	14510.2
15°	12280.5	12237.3	12331.9	12523.8	13010.2	14077.8	16075.0	17326.3	16756.0	14931.8
17.5°	12137.3	12088.7	12129.2	12229.2	12542.7	13356.2	15258.8	17523.5	17412.7	15402.0
20°	12402.2	12361.6	12367.0	12361.6	12580.5	13226.4	14691.2	17447.9	17985.7	15834.4
22.5°	13042.7	12975.1	12977.8	12834.6	12953.5	13453.5	14542.6	17245.2	18496.5	16212.8
25°	14085.9	13964.2	13988.6	13623.7	13591.3	13961.5	14775.0	17088.4	19004.6	16515.5
27.5°	15512.8	15375.0	15302.0	14758.8	14499.4	14683.1	15248.0	17142.5	19485.6	16777.6
30°	17296.5	17129.0	16980.3	16210.1	15739.8	15672.3	15983.1	17499.2	20053.2	17053.3
32.5°	19482.9	19288.3	19018.1	17996.5	17334.4	16980.3	16934.4	18134.3	20718.0	17404.6
35°	22085.5	21831.5	21447.7	20126.1	19288.3	18564.0	18188.4	19050.5	21628.8	17934.3
37.5°	24766.5	24480.0	24128.7	22555.8	21526.1	20458.6	19718.0	20293.7	22842.2	18653.2
40°	27239.3	26917.7	26590.7	25190.8	24085.4	22799.0	21590.9	21866.6	24326.0	19512.7
42.5°	28698.7	28460.9	28336.6	27579.9	26725.8	25420.5	23920.6	23731.4	25993.4	20501.8
45°	28633.9	28536.6	28920.3	29233.8	29031.1	28306.9	26650.2	25793.5	27666.3	21358.5
47.5°	27104.2	27169.1	28025.8	29787.9	30563.5	30941.9	29758.1	27817.7	29120.3	21999.0
50°	22942.2	22996.3	24980.0	28779.8	30958.1	33090.4	32841.8	29793.3	30247.3	22390.9
52.5°	19647.8	19682.9	20534.2	25790.8	29655.4	34171.5	35620.0	31655.4	31071.6	22499.0
55°	14799.3	14921.0	15875.0	20234.2	26266.4	33314.7	37311.9	33574.2	31593.2	22509.8
57.5°	8645.6	8778.0	9956.3	13734.5	20415.3	30328.4	37568.6	35276.8	31947.2	22423.3
60°	4234.9	4291.7	4805.2	7218.6	12588.6	24574.6	35503.8	36101.1	32144.5	22377.4
62.5°	2853.9	2845.8	2867.4	3562.0	6202.4	15788.5	31201.3	34657.9	32039.1	22201.7
65°	2453.9	2424.2	2343.1	2499.9	3213.4	7221.3	24107.0	30350.0	31236.5	21761.2
67.5°	2121.5	2124.2	2126.9	2078.3	2294.5	3332.3	14731.8	23907.1	28355.5	19674.8
70°	1756.7	1781.0	1791.8	1791.8	1870.2	2186.4	6288.9	16385.8	22366.6	15426.3
72.5°	1599.9	1548.6	1554.0	1527.0	1527.0	1664.8	2532.3	9288.8	14091.3	8678.0
75°	1305.3	1337.8	1343.2	1324.3	1262.1	1270.2	1502.6	3897.1	6029.5	3599.8
77.5°	1127.0	1127.0	1137.8	1124.3	1075.6	951.3	1002.7	1510.7	2051.3	1475.6
80°	905.4	902.7	948.6	975.6	900.0	702.7	640.5	835.1	910.8	648.6
82.5°	440.5	467.5	651.3	743.2	683.8	508.1	391.9	518.9	486.5	286.5
85°	256.7	243.2	291.9	413.5	391.9	281.1	189.2	270.3	254.0	145.9
87.5°	81.1	75.7	59.5	140.5	113.5	78.4	51.3	78.4	70.3	32.4
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°
13099.4	0°	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4	13099.4
13142.7	2.5°	12950.8	12631.9	12315.7	12026.5	11850.8	11737.3	11623.8	11496.8	11448.1	11375.2
13177.8	5°	12821.1	12204.9	11656.2	11183.3	10753.6	10415.8	10075.2	9799.6	9675.2	9759.0
13288.6	7.5°	12745.4	11853.5	11007.6	10140.1	9305.0	8637.5	8056.4	7648.3	7464.5	7510.5
13396.7	10°	12677.8	11456.2	10167.1	8796.9	7597.0	6770.0	6175.4	5864.6	5748.4	5772.7
13542.6	12.5°	12615.7	11010.3	9153.6	7351.0	6075.4	5529.5	5359.2	5361.9	5383.5	5399.8
13775.1	15°	12604.8	10472.5	8021.3	6086.2	5253.8	5218.7	5402.5	5518.7	5580.8	5599.8
13969.7	17.5°	12588.6	9829.3	6867.3	5224.1	5053.8	5291.7	5461.9	5537.6	5586.2	5588.9
14158.8	20°	12523.8	9013.1	5802.4	4813.3	5010.6	5216.0	5321.4	5380.8	5421.4	5434.9
14302.1	22.5°	12323.8	8105.0	4972.8	4629.5	4837.6	5002.5	5126.8	5194.4	5218.7	5234.9
14329.1	25°	11964.3	7088.9	4399.8	4453.9	4597.1	4805.2	4905.2	4918.7	4910.6	4934.9
14261.5	27.5°	11494.1	5999.7	4043.1	4216.0	4399.8	4578.2	4632.2	4624.1	4607.9	4634.9
14145.3	30°	10926.5	5021.4	3816.0	3948.5	4199.8	4362.0	4410.6	4391.7	4359.3	4389.0
14085.9	32.5°	10326.6	4221.4	3629.6	3762.0	4035.0	4194.4	4243.1	4224.1	4199.8	4224.1
14153.4	35°	9767.1	3662.0	3456.6	3637.7	3905.2	4062.0	4124.1	4126.8	4126.8	4156.6
14331.8	37.5°	9253.6	3335.0	3313.4	3559.3	3816.0	3956.6	4045.8	4051.2	3935.0	3943.1
14634.5	40°	8778.0	3197.2	3248.5	3508.0	3729.6	3864.7	3870.1	3567.4	3353.9	3348.5
14980.4	42.5°	8388.8	3170.1	3267.4	3502.5	3667.4	3672.8	3291.7	3056.6	2997.2	2999.9
15299.3	45°	8024.0	3162.0	3310.7	3502.5	3575.5	3172.8	2916.1	2853.9	2859.3	2881.0
15442.6	47.5°	7615.9	3129.6	3318.8	3453.9	3310.7	2821.5	2745.8	2718.8	2708.0	2713.4
15410.1	50°	7170.0	3013.4	3216.1	3356.6	2856.6	2670.2	2575.6	2567.5	2581.0	2589.1
15229.1	52.5°	6699.7	2824.2	3040.4	3180.9	2648.5	2537.7	2432.3	2451.2	2510.7	2529.6
15039.9	55°	6391.6	2602.6	2808.0	2829.6	2502.6	2413.4	2324.2	2367.5	2478.3	2513.4
14926.4	57.5°	6310.5	2367.5	2543.1	2518.8	2316.1	2305.3	2251.3	2289.1	2429.6	2481.0
14921.0	60°	6286.2	2156.7	2283.7	2264.8	2135.0	2186.4	2172.9	2191.8	2240.4	2256.7
14866.9	62.5°	6097.0	1989.1	2051.3	2024.2	1972.9	2062.1	2094.5	2054.0	2091.8	2110.7
14496.7	65°	5616.0	1854.0	1824.2	1805.3	1826.9	1908.0	1972.9	1891.8	1926.9	1981.0
13069.7	67.5°	4821.4	1670.2	1589.1	1610.7	1678.3	1721.5	1805.3	1713.4	1743.2	1835.1
10526.6	70°	3899.8	1437.8	1364.8	1427.0	1491.8	1581.0	1594.5	1532.4	1602.6	1705.3
6424.0	72.5°	2759.3	1202.6	1151.3	1278.3	1299.9	1416.2	1386.4	1356.7	1454.0	1489.1
3175.5	75°	1913.4	970.2	940.5	1037.8	1116.2	1216.2	1194.5	1229.7	1435.1	1451.3
1586.4	77.5°	1210.8	754.0	735.1	797.3	905.4	1016.2	1051.3	1451.3	2451.2	2548.5
824.3	80°	702.7	562.1	540.5	589.2	683.8	786.5	1013.5	1781.0	1616.1	1597.2
370.3	82.5°	391.9	386.5	359.4	373.0	456.7	567.5	1432.4	1254.0	1018.9	1051.3
148.6	85°	183.8	227.0	194.6	186.5	256.7	664.8	956.7	716.2	475.7	464.8
32.4	87.5°	48.6	43.2	43.2	48.6	108.1	572.9	381.1	305.4	181.1	175.7
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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