

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: P954787

Luminaire Tested: **GALN-SB7D-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954787  
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-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

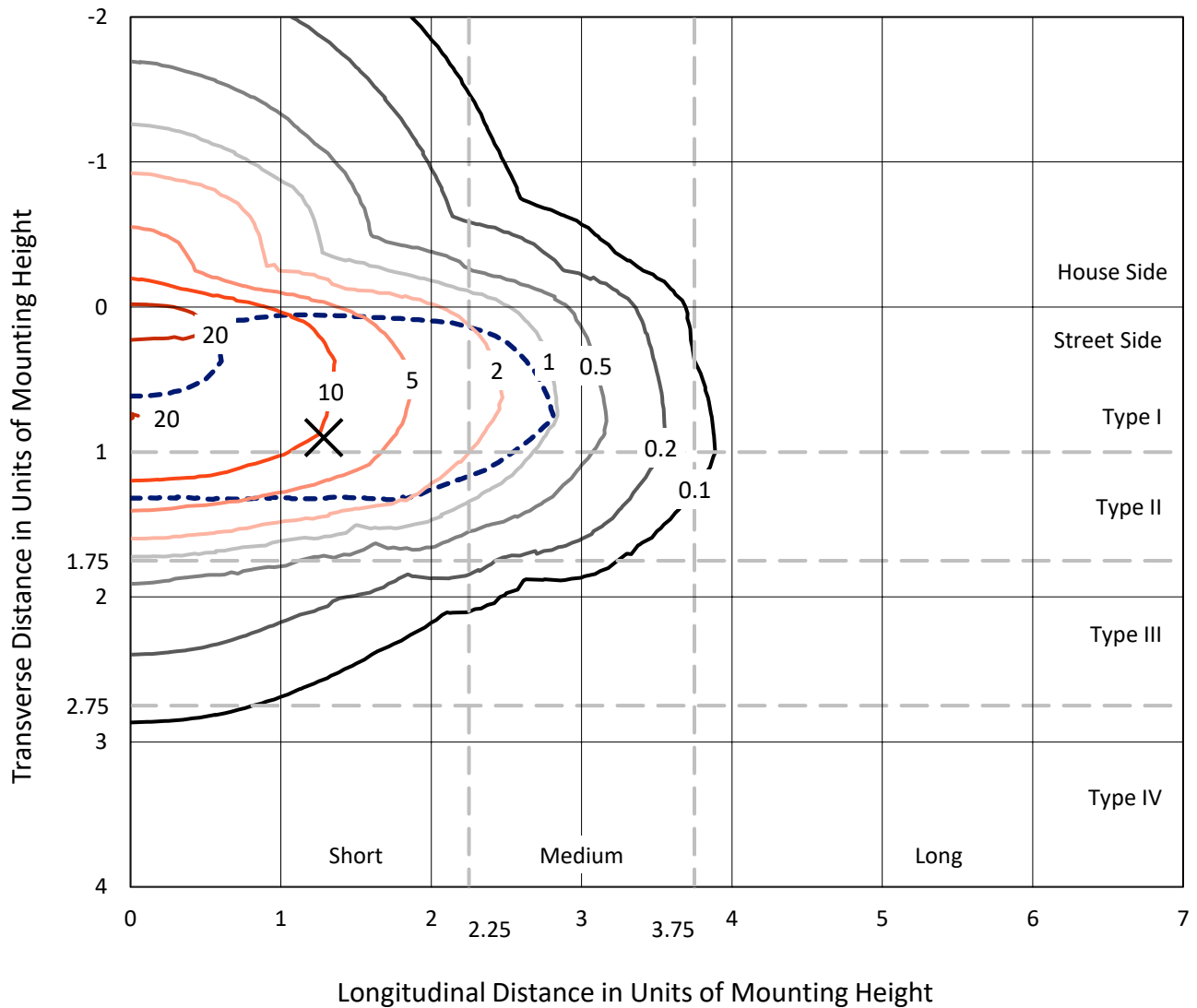
Lumens per Lamp: N/A  
Luminaire Lumens: 53334 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

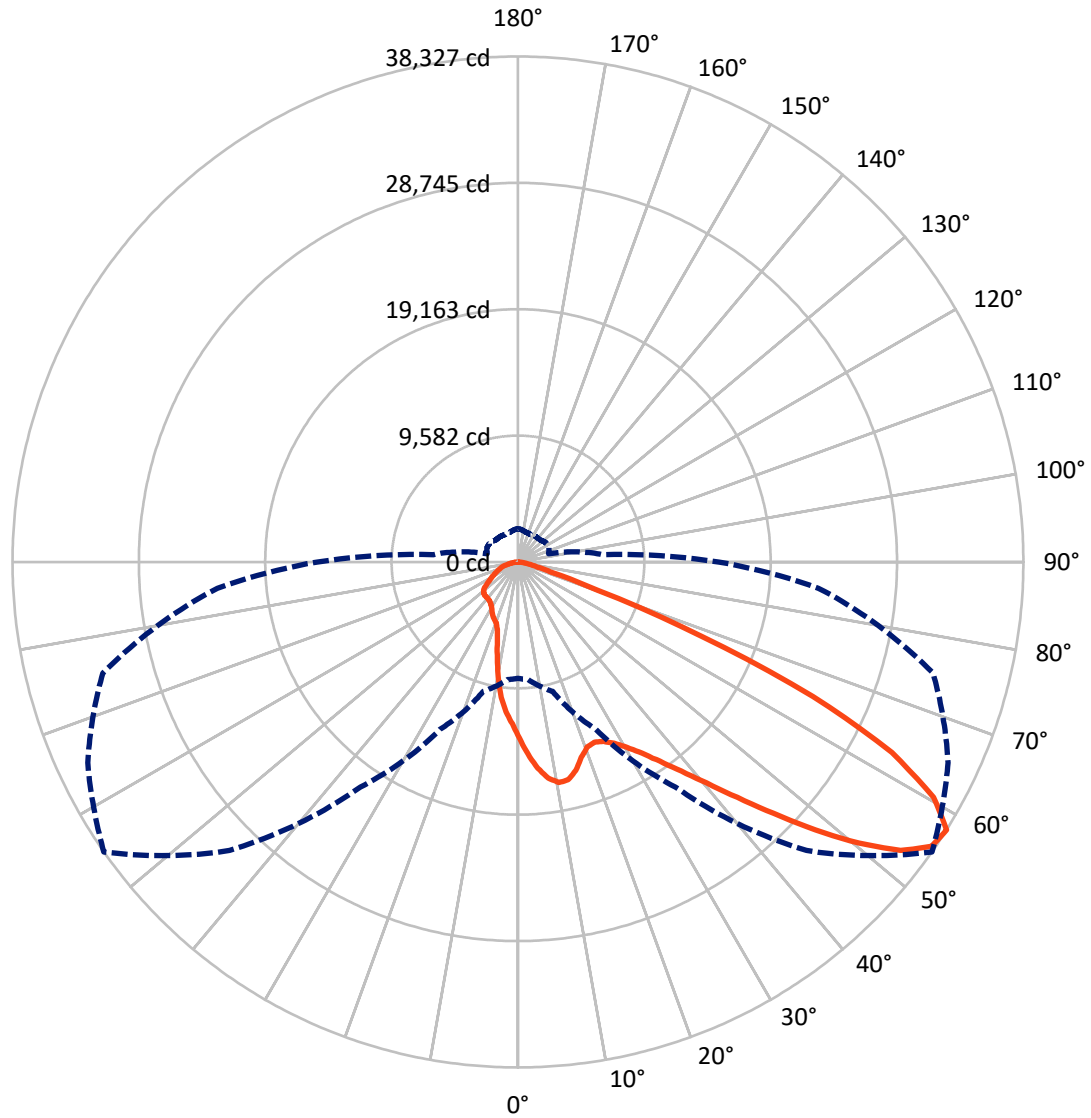
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 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	9650.5	0.0	9650.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	43683.5	0.0	43683.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	53334.0	0.0	53334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1240.1	2.3
10°-20°	3130.0	5.9
20°-30°	4994.6	9.4
30°-40°	7907.7	14.8
40°-50°	12103.6	22.7
50°-60°	12964.0	24.3
60°-70°	8155.7	15.3
70°-80°	2411.8	4.5
80°-90°	426.4	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°	53334.0	100.0
0°-180°	53334.0	100.0

**Coefficient of Utilization**



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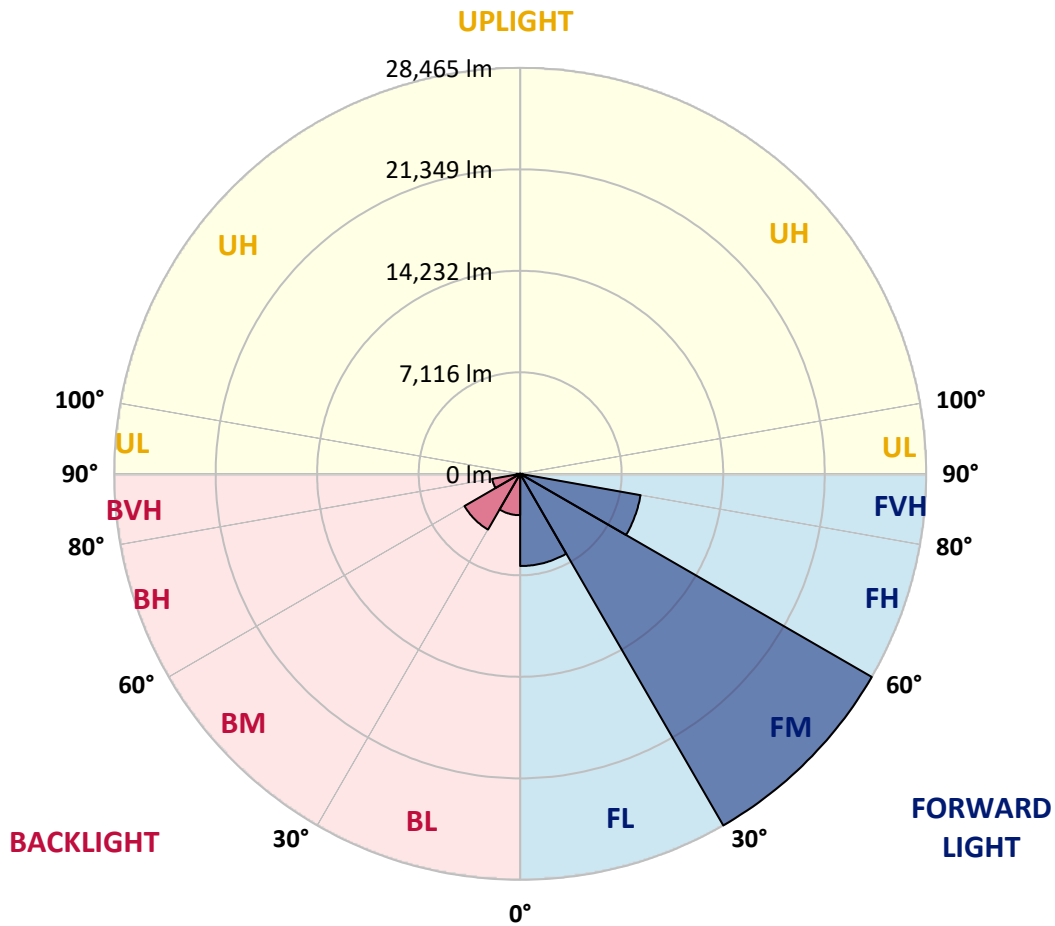
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6464.1	12.1			
FM (30°-60°)	28464.7	53.4			
FH (60°-80°)	8574.5	16.1			G4/12000
FVH (80°-90°)	180.2	0.3			G2/225
BL (0°-30°)	2900.6	5.4	B4/5000		
BM (30°-60°)	4510.6	8.5	B3/5000		
BH (60°-80°)	1993.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	246.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8
2.5°	15332.4	15321.3	15382.0	15175.2	15034.6	14844.3	14593.4	14273.6	13929.0	13565.0
5°	16713.7	16617.2	16680.6	16526.2	16371.8	16085.0	15712.8	15191.7	14554.8	13829.7
7.5°	16495.9	16429.7	16592.4	16730.2	16846.0	16810.2	16537.2	15991.3	15169.7	14116.5
10°	14739.6	14665.1	14894.0	15371.0	16071.3	16680.6	17011.4	16672.3	15798.3	14430.8
12.5°	13190.1	13154.2	13305.9	13691.9	14469.4	15638.4	16950.8	17267.9	16451.7	14803.0
15°	12528.4	12484.2	12580.7	12776.5	13272.8	14361.8	16399.4	17675.9	17094.2	15233.1
17.5°	12382.2	12332.6	12374.0	12476.0	12795.8	13625.7	15566.7	17877.2	17764.1	15712.8
20°	12652.4	12611.1	12616.6	12611.1	12834.4	13493.4	14987.7	17800.0	18348.6	16154.0
22.5°	13305.9	13236.9	13239.7	13093.6	13214.9	13725.0	14836.1	17593.2	18869.7	16540.0
25°	14370.1	14246.0	14270.9	13898.7	13865.6	14243.3	15073.2	17433.3	19388.1	16848.8
27.5°	15825.9	15685.3	15610.8	15056.6	14792.0	14979.4	15555.7	17488.4	19878.8	17116.2
30°	17645.6	17474.6	17323.0	16537.2	16057.5	15988.5	16305.6	17852.4	20457.8	17397.4
32.5°	19876.1	19677.6	19401.9	18359.7	17684.2	17323.0	17276.1	18500.3	21136.1	17755.9
35°	22531.2	22272.0	21880.5	20532.3	19677.6	18938.7	18555.4	19435.0	22065.2	18296.3
37.5°	25266.3	24974.0	24615.6	23010.9	21960.5	20871.4	20116.0	20703.2	23303.2	19029.7
40°	27789.0	27460.9	27127.3	25699.1	24571.5	23259.1	22026.6	22307.9	24816.9	19906.4
42.5°	29277.9	29035.2	28908.4	28136.4	27265.2	25933.5	24403.3	24210.3	26518.0	20915.5
45°	29211.7	29112.4	29504.0	29823.8	29617.0	28878.1	27188.0	26314.0	28224.7	21789.5
47.5°	27651.2	27717.3	28591.4	30389.0	31180.3	31566.3	30358.7	28379.1	29708.0	22443.0
50°	23405.2	23460.3	25484.1	29360.6	31582.8	33758.2	33504.5	30394.5	30857.7	22842.8
52.5°	20044.3	20080.1	20948.6	26311.2	30253.9	34861.0	36338.9	32294.2	31698.6	22953.0
55°	15098.0	15222.1	16195.3	20642.6	26796.5	33987.0	38064.8	34251.7	32230.8	22964.1
57.5°	8820.0	8955.1	10157.2	14011.7	20827.3	30940.4	38326.7	35988.7	32591.9	22875.8
60°	4320.4	4378.3	4902.2	7364.3	12842.7	25070.5	36220.3	36829.6	32793.2	22829.0
62.5°	2911.5	2903.2	2925.3	3633.9	6327.6	16107.1	31831.0	35357.3	32685.7	22649.8
65°	2503.5	2473.1	2390.4	2550.3	3278.2	7367.0	24593.5	30962.5	31866.8	22200.3
67.5°	2164.3	2167.1	2169.9	2120.2	2340.8	3399.5	15029.1	24389.5	28927.7	20071.8
70°	1792.1	1816.9	1828.0	1828.0	1907.9	2230.5	6415.8	16716.4	22817.9	15737.7
72.5°	1632.2	1579.8	1585.3	1557.8	1557.8	1698.4	2583.4	9476.2	14375.6	8853.1
75°	1331.7	1364.8	1370.3	1351.0	1287.6	1295.8	1533.0	3975.8	6151.1	3672.5
77.5°	1149.7	1149.7	1160.7	1147.0	1097.3	970.5	1022.9	1541.2	2092.7	1505.4
80°	923.6	920.9	967.7	995.3	918.1	716.9	653.4	852.0	929.2	661.7
82.5°	449.4	477.0	664.5	758.2	697.6	518.3	399.8	529.4	496.3	292.3
85°	261.9	248.1	297.8	421.8	399.8	286.7	193.0	275.7	259.2	148.9
87.5°	82.7	77.2	60.7	143.4	115.8	80.0	52.4	80.0	71.7	33.1
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°
13363.8	0°	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8	13363.8
13407.9	2.5°	13212.1	12886.8	12564.2	12269.2	12090.0	11974.2	11858.4	11728.8	11679.2	11604.7
13443.7	5°	13079.8	12451.2	11891.5	11409.0	10970.6	10625.9	10278.5	9997.3	9870.5	9956.0
13556.8	7.5°	13002.6	12092.7	11229.8	10344.7	9492.8	8811.8	8219.0	7802.7	7615.2	7662.0
13667.1	10°	12933.7	11687.4	10372.3	8974.4	7750.3	6906.6	6300.0	5983.0	5864.4	5889.2
13815.9	12.5°	12870.2	11232.5	9338.4	7499.4	6198.0	5641.1	5467.4	5470.1	5492.2	5508.7
14053.0	15°	12859.2	10683.8	8183.1	6209.0	5359.8	5324.0	5511.5	5630.0	5693.5	5712.8
14251.6	17.5°	12842.7	10027.7	7005.8	5329.5	5155.8	5398.4	5572.1	5649.3	5699.0	5701.7
14444.6	20°	12776.5	9195.0	5919.5	4910.4	5111.7	5321.2	5428.8	5489.4	5530.8	5544.6
14590.7	22.5°	12572.5	8268.6	5073.1	4722.9	4935.2	5103.4	5230.3	5299.2	5324.0	5340.5
14618.3	25°	12205.8	7231.9	4488.6	4543.7	4689.9	4902.2	5004.2	5018.0	5009.7	5034.5
14549.3	27.5°	11726.0	6120.8	4124.7	4301.1	4488.6	4670.6	4725.7	4717.4	4700.9	4728.5
14430.8	30°	11147.0	5122.7	3893.1	4028.2	4284.6	4450.0	4499.6	4480.3	4447.2	4477.6
14370.1	32.5°	10535.0	4306.6	3702.8	3837.9	4116.4	4279.1	4328.7	4309.4	4284.6	4309.4
14439.0	35°	9964.2	3735.9	3526.4	3711.1	3984.0	4144.0	4207.4	4210.1	4210.1	4240.5
14621.0	37.5°	9440.4	3402.3	3380.2	3631.1	3893.1	4036.4	4127.4	4132.9	4014.4	4022.6
14929.8	40°	8955.1	3261.7	3314.1	3578.7	3804.8	3942.7	3948.2	3639.4	3421.6	3416.1
15282.7	42.5°	8558.1	3234.1	3333.4	3573.2	3741.4	3746.9	3358.2	3118.3	3057.6	3060.4
15608.1	45°	8185.9	3225.8	3377.5	3573.2	3647.7	3236.9	2974.9	2911.5	2917.0	2939.1
15754.2	47.5°	7769.6	3192.7	3385.7	3523.6	3377.5	2878.4	2801.2	2773.7	2762.6	2768.2
15721.1	50°	7314.6	3074.2	3281.0	3424.3	2914.3	2724.0	2627.5	2619.3	2633.1	2641.3
15536.4	52.5°	6834.9	2881.2	3101.8	3245.1	2702.0	2588.9	2481.4	2500.7	2561.4	2580.7
15343.4	55°	6520.6	2655.1	2864.6	2886.7	2553.1	2462.1	2371.1	2415.2	2528.3	2564.1
15227.6	57.5°	6437.9	2415.2	2594.5	2569.6	2362.9	2351.8	2296.7	2335.3	2478.7	2531.0
15222.1	60°	6413.1	2200.2	2329.8	2310.5	2178.1	2230.5	2216.7	2236.0	2285.7	2302.2
15166.9	62.5°	6220.1	2029.2	2092.7	2065.1	2012.7	2103.7	2136.8	2095.4	2134.0	2153.3
14789.2	65°	5729.3	1891.4	1861.1	1841.8	1863.8	1946.5	2012.7	1930.0	1965.8	2021.0
13333.4	67.5°	4918.7	1703.9	1621.2	1643.2	1712.2	1756.3	1841.8	1748.0	1778.3	1872.1
10739.0	70°	3978.5	1466.8	1392.3	1455.8	1521.9	1612.9	1626.7	1563.3	1635.0	1739.7
6553.7	72.5°	2815.0	1226.9	1174.5	1304.1	1326.2	1444.7	1414.4	1384.1	1483.3	1519.2
3239.6	75°	1952.0	989.8	959.5	1058.7	1138.7	1240.7	1218.6	1254.5	1464.0	1480.6
1618.4	77.5°	1235.2	769.2	749.9	813.4	923.6	1036.7	1072.5	1480.6	2500.7	2600.0
840.9	80°	716.9	573.5	551.4	601.1	697.6	802.3	1033.9	1816.9	1648.8	1629.5
377.7	82.5°	399.8	394.3	366.7	380.5	466.0	579.0	1461.3	1279.3	1039.4	1072.5
151.6	85°	187.5	231.6	198.5	190.2	261.9	678.3	976.0	730.6	485.3	474.2
33.1	87.5°	49.6	44.1	44.1	49.6	110.3	584.5	388.8	311.6	184.7	179.2
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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