

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: P954766

Luminaire Tested: **GALN-SB7D-935-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954766  
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-935-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

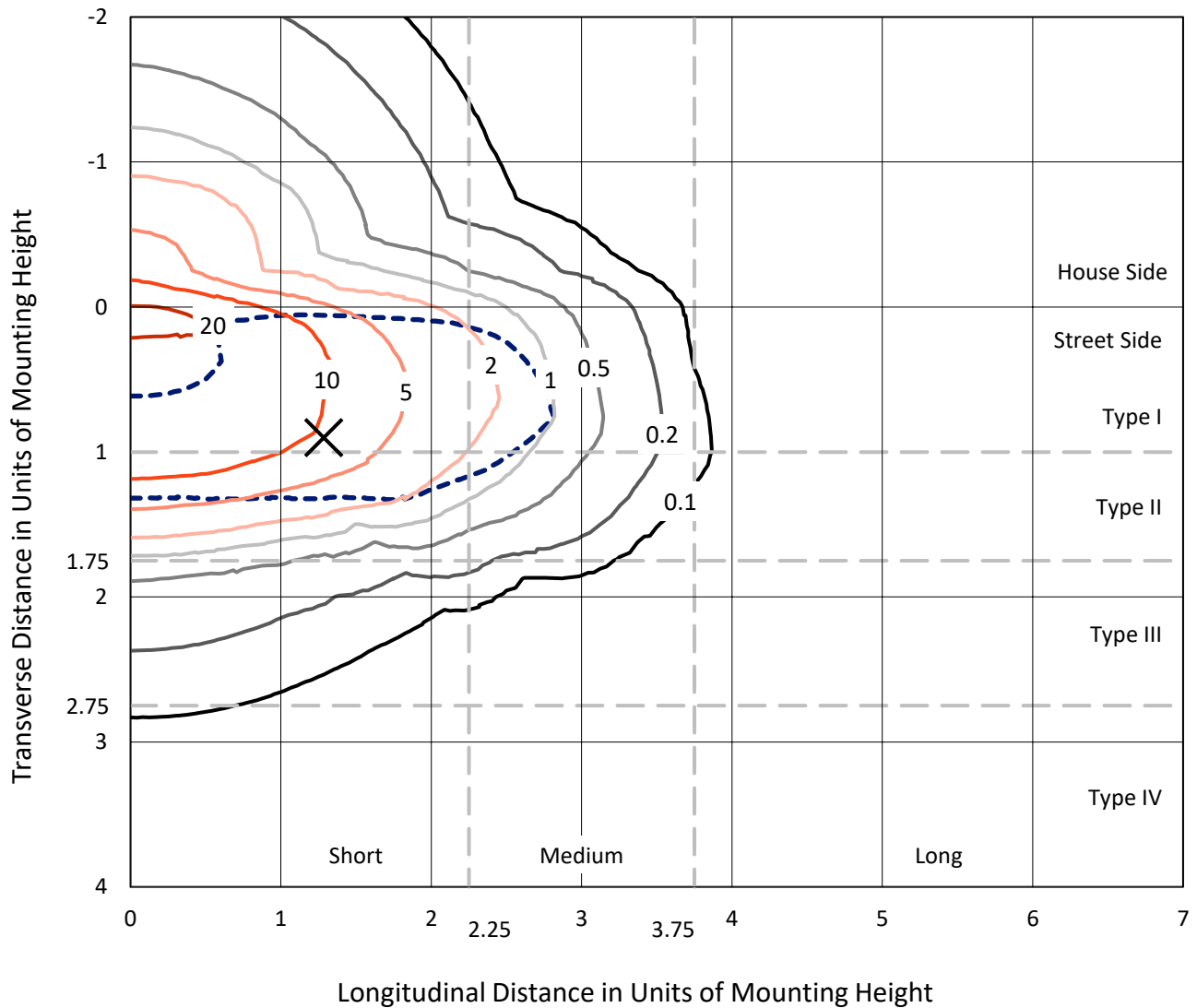
Lumens per Lamp: N/A  
Luminaire Lumens: 51201 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

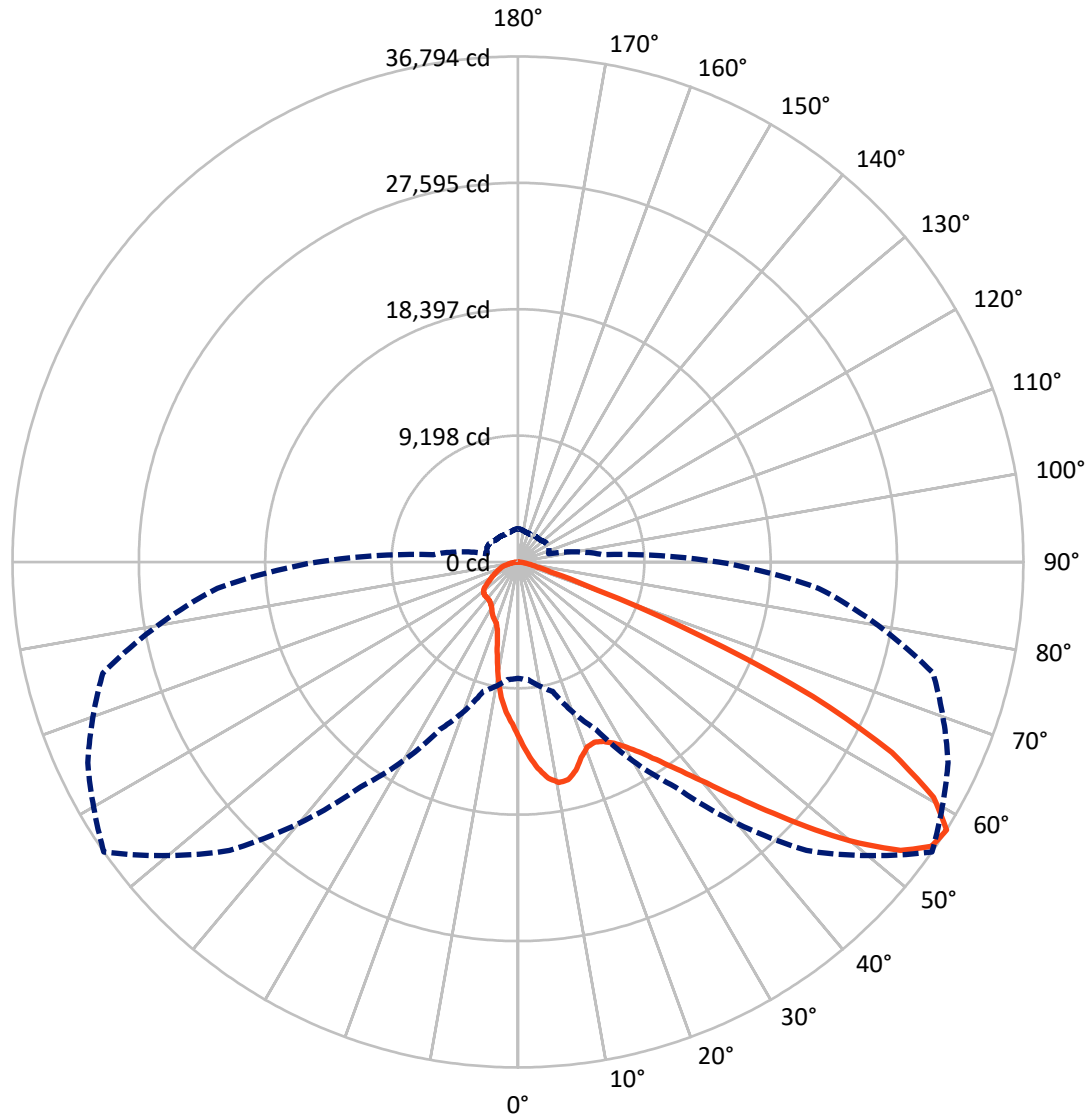
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 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	9264.6	0.0	9264.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	41936.4	0.0	41936.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	51201.0	0.0	51201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1190.5	2.3
10°-20°	3004.8	5.9
20°-30°	4794.9	9.4
30°-40°	7591.4	14.8
40°-50°	11619.5	22.7
50°-60°	12445.6	24.3
60°-70°	7829.6	15.3
70°-80°	2315.4	4.5
80°-90°	409.4	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°	51201.0	100.0
0°-180°	51201.0	100.0

**Coefficient of Utilization**



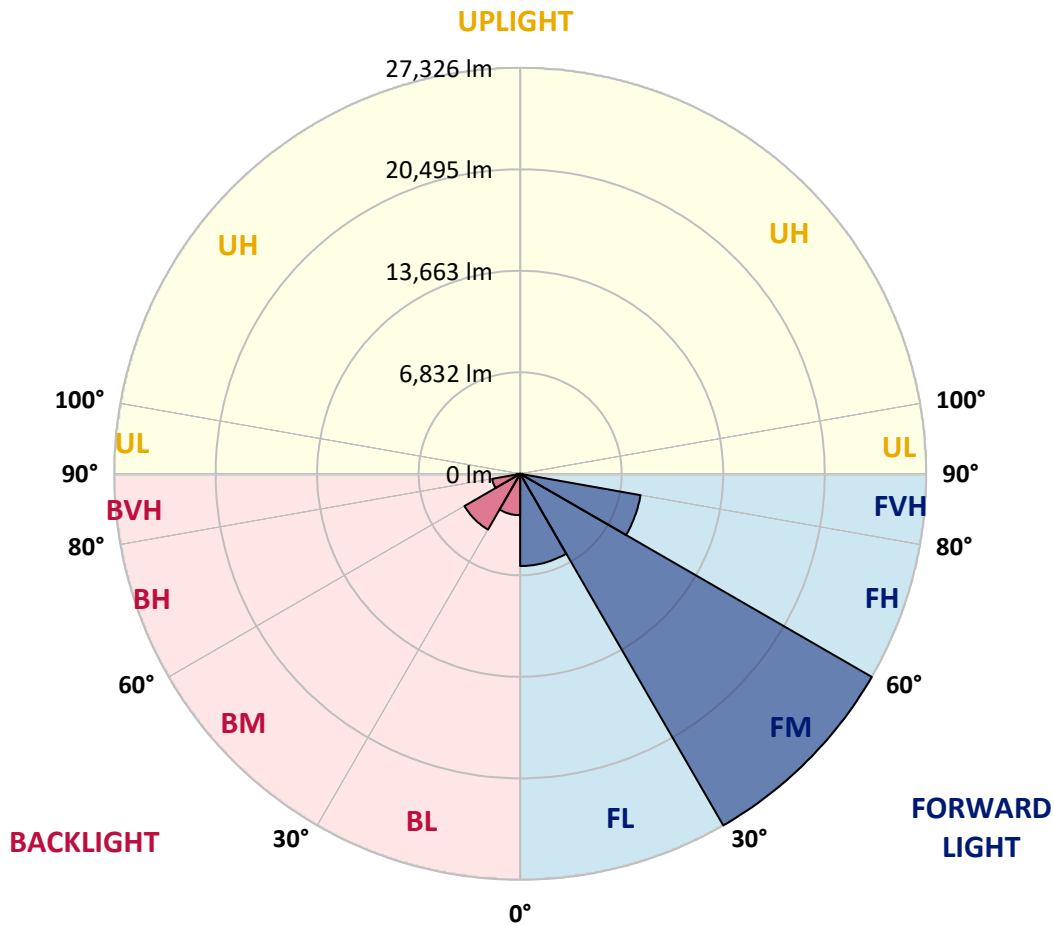
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6205.6	12.1			
FM (30°-60°)	27326.3	53.4			
FH (60°-80°)	8231.6	16.1			G4/12000
FVH (80°-90°)	173.0	0.3			G2/225
BL (0°-30°)	2784.6	5.4	B4/5000		
BM (30°-60°)	4330.2	8.5	B3/5000		
BH (60°-80°)	1913.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	236.4	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°	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3
2.5°	14719.2	14708.6	14766.8	14568.3	14433.3	14250.7	14009.8	13702.8	13371.9	13022.5
5°	16045.2	15952.6	16013.5	15865.3	15717.0	15441.8	15084.4	14584.2	13972.8	13276.6
7.5°	15836.1	15772.6	15928.8	16061.1	16172.3	16137.9	15875.8	15351.8	14563.0	13551.9
10°	14150.1	14078.6	14298.3	14756.2	15428.5	16013.5	16331.1	16005.5	15166.5	13853.6
12.5°	12662.6	12628.1	12773.7	13144.3	13890.7	15013.0	16272.9	16577.3	15793.8	14211.0
15°	12027.3	11985.0	12077.6	12265.5	12742.0	13787.5	15743.5	16969.0	16410.5	14623.9
17.5°	11887.0	11839.4	11879.1	11977.0	12284.1	13080.8	14944.1	17162.2	17053.7	15084.4
20°	12146.4	12106.7	12112.0	12106.7	12321.1	12953.7	14388.3	17088.1	17614.8	15507.9
22.5°	12773.7	12707.6	12710.2	12569.9	12686.4	13176.0	14242.7	16889.6	18115.1	15878.5
25°	13795.4	13676.3	13700.1	13342.8	13311.0	13673.7	14470.4	16736.1	18612.7	16174.9
27.5°	15193.0	15058.0	14986.5	14454.5	14200.4	14380.4	14933.6	16789.0	19083.8	16431.7
30°	16939.9	16775.8	16630.2	15875.8	15415.3	15349.1	15653.5	17138.4	19639.7	16701.7
32.5°	19081.2	18890.6	18625.9	17625.4	16976.9	16630.2	16585.2	17760.4	20290.8	17045.7
35°	21630.1	21381.3	21005.4	19711.1	18890.6	18181.3	17813.3	18657.7	21182.8	17564.5
37.5°	24255.8	23975.2	23631.1	22090.7	21082.2	20036.7	19311.5	19875.2	22371.2	18268.6
40°	26677.7	26362.7	26042.4	24671.3	23588.8	22328.9	21145.7	21415.7	23824.3	19110.3
42.5°	28107.0	27874.0	27752.3	27011.2	26174.8	24896.3	23427.3	23242.0	25457.5	20079.0
45°	28043.4	27948.1	28324.0	28631.0	28432.5	27723.2	26100.6	25261.6	27095.9	20918.1
47.5°	26545.3	26608.8	27447.9	29173.6	29933.3	30303.8	29144.5	27244.1	28519.9	21545.4
50°	22469.2	22522.1	24464.9	28186.4	30319.7	32408.1	32164.6	29178.9	29623.6	21929.2
52.5°	19242.6	19277.0	20110.8	25258.9	29043.9	33466.8	34885.6	31002.6	30430.9	22035.1
55°	14494.2	14613.3	15547.6	19817.0	25724.8	32627.8	36542.5	32881.9	30941.7	22045.7
57.5°	8467.3	8597.0	9751.0	13451.3	19994.3	29703.0	36793.9	34549.4	31288.5	21961.0
60°	4147.6	4203.2	4706.1	7069.8	12329.1	24067.9	34771.7	35356.7	31481.7	21916.0
62.5°	2795.1	2787.1	2808.3	3488.6	6074.5	15462.9	30557.9	33943.3	31378.5	21743.9
65°	2403.3	2374.2	2294.8	2448.3	3147.1	7072.4	23610.0	29724.2	30592.4	21312.5
67.5°	2077.8	2080.4	2083.1	2035.4	2247.2	3263.6	14428.0	23414.1	27770.8	19269.1
70°	1720.5	1744.3	1754.9	1754.9	1831.6	2141.3	6159.2	16047.9	21905.4	15108.3
72.5°	1566.9	1516.6	1521.9	1495.5	1495.5	1630.5	2480.1	9097.2	13800.7	8499.1
75°	1278.4	1310.2	1315.5	1297.0	1236.1	1244.0	1471.7	3816.8	5905.1	3525.6
77.5°	1103.7	1103.7	1114.3	1101.1	1053.4	931.7	982.0	1479.6	2009.0	1445.2
80°	886.7	884.0	929.0	955.5	881.4	688.2	627.3	817.9	892.0	635.2
82.5°	431.4	457.9	637.9	727.9	669.7	497.6	383.8	508.2	476.4	280.6
85°	251.5	238.2	285.9	405.0	383.8	275.3	185.3	264.7	248.8	142.9
87.5°	79.4	74.1	58.2	137.6	111.2	76.8	50.3	76.8	68.8	31.8
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°
12829.3	0°	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3	12829.3
12871.7	2.5°	12683.7	12371.4	12061.7	11778.5	11606.5	11495.3	11384.1	11259.7	11212.1	11140.6
12906.1	5°	12556.7	11953.2	11415.9	10952.7	10531.8	10201.0	9867.5	9597.5	9475.7	9557.8
13014.6	7.5°	12482.6	11609.1	10780.6	9931.0	9113.1	8459.4	7890.3	7490.6	7310.6	7355.6
13120.5	10°	12416.4	11220.0	9957.5	8615.5	7440.3	6630.4	6048.1	5743.7	5629.9	5653.7
13263.4	12.5°	12355.5	10783.3	8964.9	7199.4	5950.1	5415.5	5248.7	5251.4	5272.5	5288.4
13491.0	15°	12344.9	10256.6	7855.9	5960.7	5145.5	5111.1	5291.1	5404.9	5465.8	5484.3
13681.6	17.5°	12329.1	9626.6	6725.7	5116.4	4949.6	5182.5	5349.3	5423.4	5471.1	5473.7
13866.9	20°	12265.5	8827.3	5682.8	4714.0	4907.3	5108.4	5211.7	5269.9	5309.6	5322.8
14007.2	22.5°	12069.7	7937.9	4870.2	4534.1	4737.9	4899.3	5021.1	5087.3	5111.1	5127.0
14033.6	25°	11717.6	6942.7	4309.1	4362.0	4502.3	4706.1	4804.0	4817.3	4809.3	4833.2
13967.5	27.5°	11257.1	5876.0	3959.7	4129.1	4309.1	4483.8	4536.7	4528.8	4512.9	4539.4
13853.6	30°	10701.2	4917.9	3737.4	3867.1	4113.2	4272.0	4319.7	4301.1	4269.4	4298.5
13795.4	32.5°	10113.6	4134.4	3554.7	3684.4	3951.8	4107.9	4155.6	4137.0	4113.2	4137.0
13861.6	35°	9565.7	3586.5	3385.3	3562.7	3824.7	3978.2	4039.1	4041.7	4041.7	4070.9
14036.3	37.5°	9062.8	3266.2	3245.0	3485.9	3737.4	3875.0	3962.3	3967.6	3853.8	3861.8
14332.7	40°	8597.0	3131.2	3181.5	3435.6	3652.7	3785.0	3790.3	3493.8	3284.7	3279.5
14671.5	42.5°	8215.8	3104.8	3200.0	3430.3	3591.8	3597.1	3223.9	2993.6	2935.4	2938.0
14983.8	45°	7858.5	3096.8	3242.4	3430.3	3501.8	3107.4	2856.0	2795.1	2800.4	2821.5
15124.1	47.5°	7458.8	3065.1	3250.3	3382.7	3242.4	2763.3	2689.2	2662.7	2652.1	2657.4
15092.4	50°	7022.1	2951.2	3149.8	3287.4	2797.7	2615.1	2522.5	2514.5	2527.7	2535.7
14915.0	52.5°	6561.6	2766.0	2977.7	3115.3	2593.9	2485.4	2382.2	2400.7	2458.9	2477.5
14729.8	55°	6259.8	2548.9	2750.1	2771.3	2451.0	2363.6	2276.3	2318.6	2427.2	2461.6
14618.6	57.5°	6180.4	2318.6	2490.7	2466.9	2268.4	2257.8	2204.8	2241.9	2379.5	2429.8
14613.3	60°	6156.6	2112.2	2236.6	2218.1	2091.0	2141.3	2128.1	2146.6	2194.2	2210.1
14560.4	62.5°	5971.3	1948.1	2009.0	1982.5	1932.2	2019.6	2051.3	2011.6	2048.7	2067.2
14197.7	65°	5500.2	1815.7	1786.6	1768.1	1789.3	1868.7	1932.2	1852.8	1887.2	1940.1
12800.2	67.5°	4722.0	1635.8	1556.4	1577.5	1643.7	1686.0	1768.1	1678.1	1707.2	1797.2
10309.5	70°	3819.4	1408.1	1336.7	1397.5	1461.1	1548.4	1561.6	1500.8	1569.6	1670.2
6291.6	72.5°	2702.4	1177.9	1127.6	1252.0	1273.1	1387.0	1357.8	1328.7	1424.0	1458.4
3110.1	75°	1874.0	950.2	921.1	1016.4	1093.2	1191.1	1169.9	1204.3	1405.5	1421.4
1553.7	77.5°	1185.8	738.5	719.9	780.8	886.7	995.2	1029.6	1421.4	2400.7	2496.0
807.3	80°	688.2	550.5	529.4	577.0	669.7	770.2	992.6	1744.3	1582.8	1564.3
362.6	82.5°	383.8	378.5	352.0	365.3	447.3	555.8	1402.8	1228.1	997.9	1029.6
145.6	85°	180.0	222.3	190.6	182.6	251.5	651.1	937.0	701.4	465.8	455.3
31.8	87.5°	47.6	42.3	42.3	47.6	105.9	561.1	373.2	299.1	177.3	172.0
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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