

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: P948907

Luminaire Tested: **GALN-SB3D-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948907  
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-SB3D-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

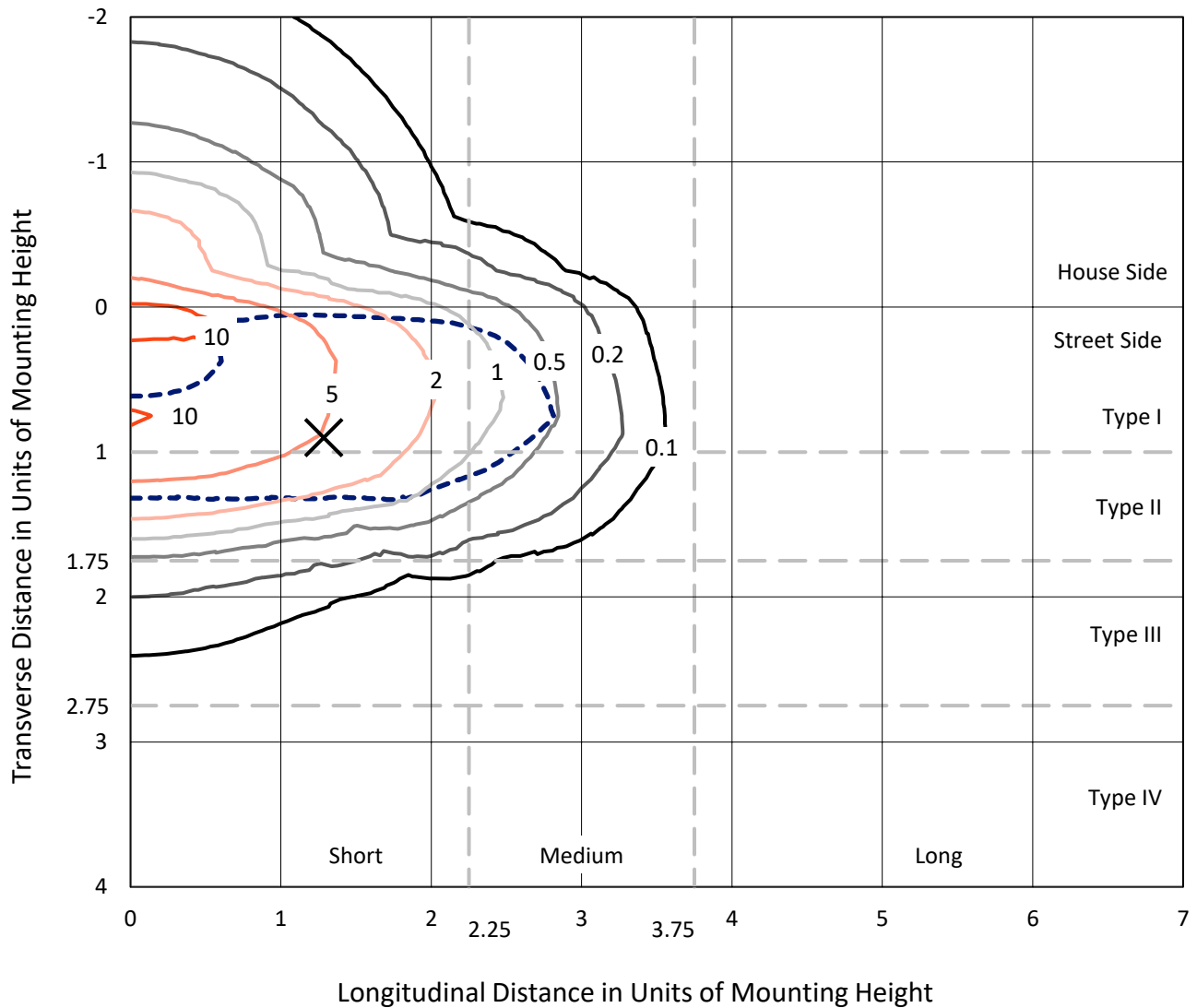
Lumens per Lamp: N/A  
Luminaire Lumens: 27001 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

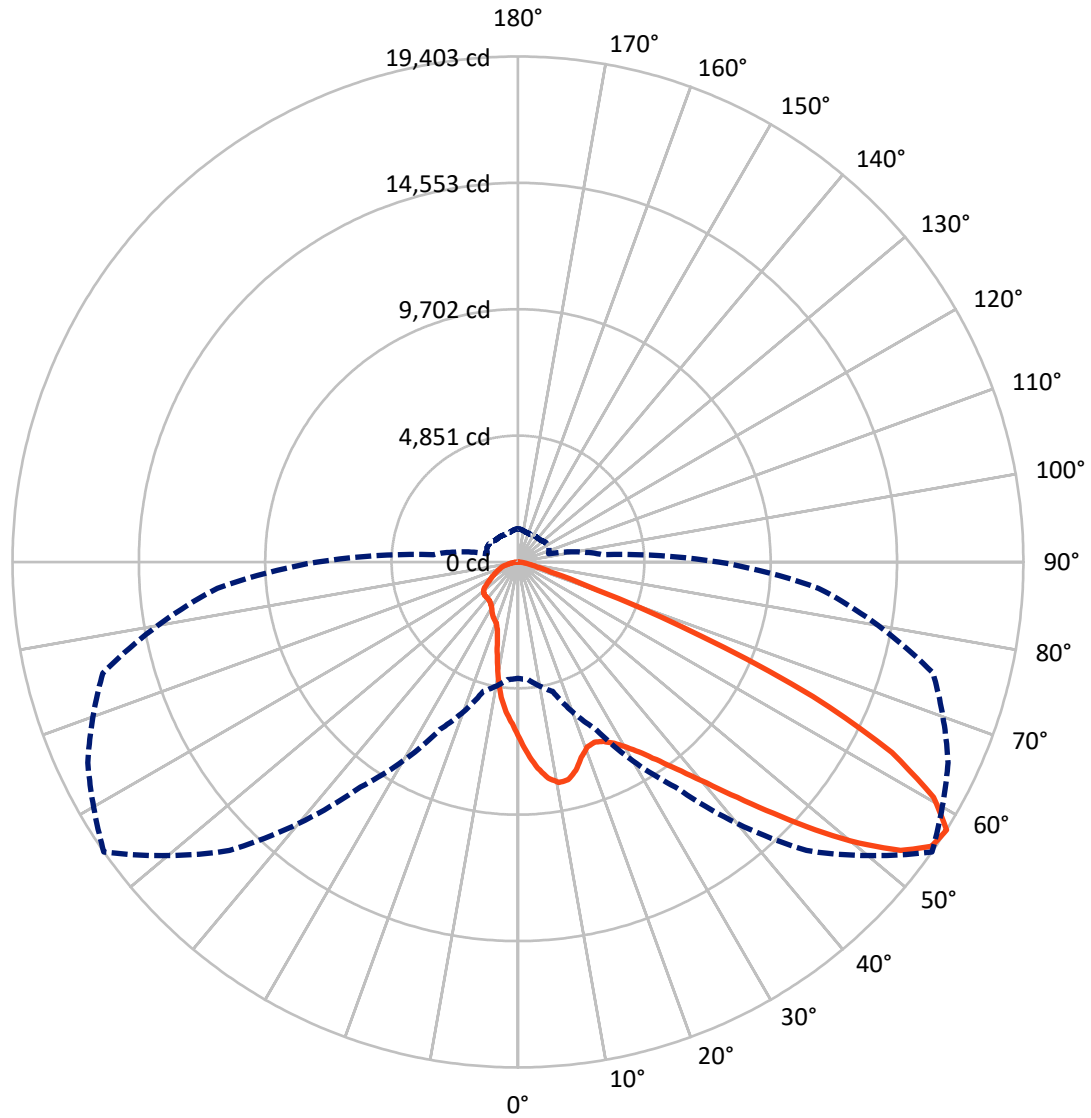
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	4885.7	0.0	4885.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22115.3	0.0	22115.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27001.0	0.0	27001.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.8	2.3
10°-20°	1584.6	5.9
20°-30°	2528.6	9.4
30°-40°	4003.4	14.8
40°-50°	6127.6	22.7
50°-60°	6563.2	24.3
60°-70°	4128.9	15.3
70°-80°	1221.0	4.5
80°-90°	215.9	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°	27001.0	100.0
0°-180°	27001.0	100.0



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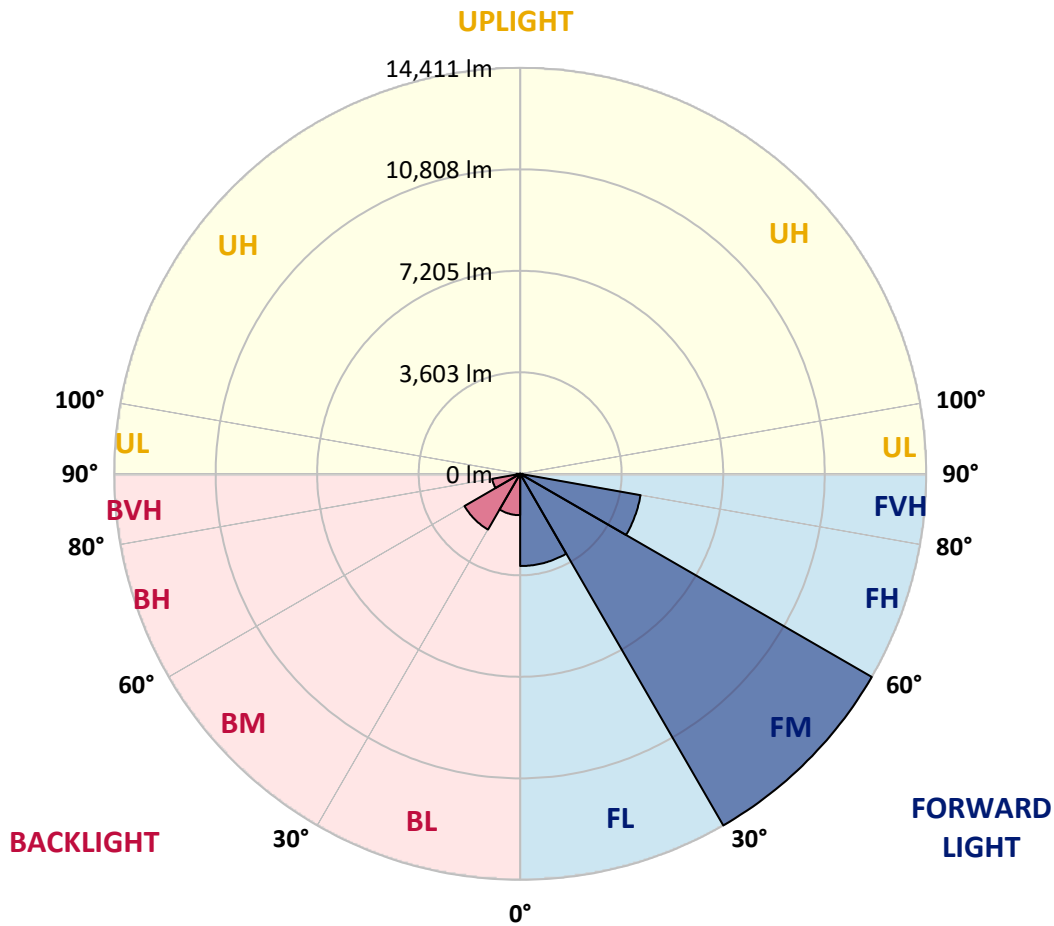
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.5	12.1			
FM (30°-60°)	14410.6	53.4			
FH (60°-80°)	4340.9	16.1			G2/5000
FVH (80°-90°)	91.2	0.3			G1/100
BL (0°-30°)	1468.5	5.4	B3/2500		
BM (30°-60°)	2283.5	8.5	B2/2500		
BH (60°-80°)	1009.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	124.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6
2.5°	7762.2	7756.6	7787.3	7682.6	7611.4	7515.1	7388.1	7226.2	7051.7	6867.5
5°	8461.5	8412.7	8444.8	8366.6	8288.4	8143.3	7954.8	7691.0	7368.6	7001.5
7.5°	8351.2	8317.7	8400.1	8469.9	8528.5	8510.4	8372.2	8095.8	7679.8	7146.6
10°	7462.1	7424.4	7540.3	7781.7	8136.3	8444.8	8612.3	8440.6	7998.1	7305.8
12.5°	6677.6	6659.5	6736.3	6931.7	7325.3	7917.1	8581.5	8742.1	8328.9	7494.2
15°	6342.6	6320.3	6369.2	6468.3	6719.5	7270.9	8302.4	8948.6	8654.1	7711.9
17.5°	6268.7	6243.5	6264.5	6316.1	6478.0	6898.2	7880.8	9050.5	8993.3	7954.8
20°	6405.5	6384.5	6387.3	6384.5	6497.6	6831.2	7587.7	9011.5	9289.2	8178.2
22.5°	6736.3	6701.4	6702.8	6628.8	6690.2	6948.4	7510.9	8906.8	9553.0	8373.6
25°	7275.1	7212.2	7224.8	7036.4	7019.6	7210.8	7631.0	8825.8	9815.5	8529.9
27.5°	8012.0	7940.9	7903.2	7622.6	7488.6	7583.5	7875.3	8853.7	10063.9	8665.3
30°	8933.3	8846.8	8770.0	8372.2	8129.3	8094.4	8254.9	9038.0	10357.0	8807.7
32.5°	10062.5	9962.0	9822.4	9294.8	8952.8	8770.0	8746.3	9366.0	10700.4	8989.1
35°	11406.7	11275.5	11077.3	10394.7	9962.0	9587.9	9393.9	9839.2	11170.8	9262.7
37.5°	12791.4	12643.4	12461.9	11649.6	11117.8	10566.4	10184.0	10481.3	11797.5	9634.0
40°	14068.5	13902.4	13733.5	13010.5	12439.6	11775.2	11151.3	11293.6	12563.8	10077.9
42.5°	14822.3	14699.5	14635.2	14244.4	13803.3	13129.2	12354.5	12256.8	13425.1	10588.7
45°	14788.8	14738.5	14936.7	15098.7	14994.0	14619.9	13764.3	13321.8	14289.1	11031.2
47.5°	13998.8	14032.3	14474.7	15384.8	15785.4	15980.8	15369.5	14367.2	15040.0	11362.0
50°	11849.2	11877.1	12901.6	14864.2	15989.2	17090.5	16962.1	15387.6	15622.1	11564.4
52.5°	10147.7	10165.8	10605.5	13320.4	15316.4	17648.8	18397.0	16349.3	16047.8	11620.3
55°	7643.5	7706.4	8199.1	10450.6	13566.0	17206.4	19270.8	17340.4	16317.2	11625.8
57.5°	4465.3	4533.6	5142.2	7093.6	10544.1	15664.0	19403.4	18219.7	16500.1	11581.2
60°	2187.3	2216.6	2481.8	3728.3	6501.8	12692.3	18337.0	18645.5	16602.0	11557.4
62.5°	1474.0	1469.8	1481.0	1839.7	3203.4	8154.4	16114.8	17900.1	16547.5	11466.7
65°	1267.4	1252.1	1210.2	1291.1	1659.6	3729.7	12450.8	15675.1	16133.0	11239.2
67.5°	1095.7	1097.1	1098.5	1073.4	1185.1	1721.1	7608.7	12347.5	14645.0	10161.6
70°	907.3	919.9	925.4	925.4	965.9	1129.2	3248.1	8462.9	11551.9	7967.4
72.5°	826.3	799.8	802.6	788.6	788.6	859.8	1307.9	4797.5	7277.8	4482.0
75°	674.2	690.9	693.7	684.0	651.9	656.0	776.1	2012.8	3114.1	1859.2
77.5°	582.1	582.1	587.6	580.7	555.5	491.3	517.9	780.3	1059.4	762.1
80°	467.6	466.2	489.9	503.9	464.8	362.9	330.8	431.3	470.4	335.0
82.5°	227.5	241.5	336.4	383.9	353.1	262.4	202.4	268.0	251.2	148.0
85°	132.6	125.6	150.7	213.6	202.4	145.2	97.7	139.6	131.2	75.4
87.5°	41.9	39.1	30.7	72.6	58.6	40.5	26.5	40.5	36.3	16.7
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°
6765.6	0°	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6	6765.6
6787.9	2.5°	6688.8	6524.1	6360.8	6211.4	6120.7	6062.1	6003.5	5937.8	5912.7	5875.0
6806.1	5°	6621.8	6303.6	6020.2	5775.9	5554.0	5379.5	5203.6	5061.3	4997.1	5040.3
6863.3	7.5°	6582.7	6122.1	5685.2	5237.1	4805.8	4461.1	4161.0	3950.2	3855.3	3879.0
6919.1	10°	6547.8	5916.9	5251.1	4543.4	3923.7	3496.5	3189.5	3028.9	2968.9	2981.5
6994.5	12.5°	6515.7	5686.6	4727.7	3796.6	3137.8	2855.9	2767.9	2769.3	2780.5	2788.9
7114.5	15°	6510.1	5408.8	4142.8	3143.4	2713.5	2695.3	2790.3	2850.3	2882.4	2892.2
7215.0	17.5°	6501.8	5076.6	3546.8	2698.1	2610.2	2733.0	2821.0	2860.0	2885.2	2886.6
7312.7	20°	6468.3	4655.1	2996.8	2486.0	2587.9	2693.9	2748.4	2779.1	2800.0	2807.0
7386.7	22.5°	6365.0	4186.1	2568.3	2391.1	2498.5	2583.7	2647.9	2682.8	2695.3	2703.7
7400.7	25°	6179.3	3661.3	2272.4	2300.3	2374.3	2481.8	2533.4	2540.4	2536.2	2548.8
7365.8	27.5°	5936.5	3098.7	2088.2	2177.5	2272.4	2364.5	2392.4	2388.3	2379.9	2393.8
7305.8	30°	5643.3	2593.4	1970.9	2039.3	2169.1	2252.9	2278.0	2268.2	2251.5	2266.8
7275.1	32.5°	5333.5	2180.3	1874.6	1943.0	2084.0	2166.3	2191.4	2181.7	2169.1	2181.7
7309.9	35°	5044.5	1891.3	1785.3	1878.8	2017.0	2097.9	2130.0	2131.4	2131.4	2146.8
7402.1	37.5°	4779.3	1722.5	1711.3	1838.3	1970.9	2043.5	2089.6	2092.3	2032.3	2036.5
7558.4	40°	4533.6	1651.3	1677.8	1811.8	1926.2	1996.0	1998.8	1842.5	1732.2	1729.4
7737.1	42.5°	4332.6	1637.3	1687.6	1809.0	1894.1	1896.9	1700.1	1578.7	1548.0	1549.4
7901.8	45°	4144.2	1633.1	1709.9	1809.0	1846.7	1638.7	1506.1	1474.0	1476.8	1488.0
7975.8	47.5°	3933.4	1616.4	1714.1	1783.9	1709.9	1457.2	1418.2	1404.2	1398.6	1401.4
7959.0	50°	3703.1	1556.3	1661.0	1733.6	1475.4	1379.1	1330.2	1326.0	1333.0	1337.2
7865.5	52.5°	3460.3	1458.6	1570.3	1642.9	1367.9	1310.7	1256.2	1266.0	1296.7	1306.5
7767.8	55°	3301.1	1344.2	1450.3	1461.4	1292.5	1246.5	1200.4	1222.7	1280.0	1298.1
7709.2	57.5°	3259.3	1222.7	1313.5	1300.9	1196.2	1190.6	1162.7	1182.3	1254.8	1281.4
7706.4	60°	3246.7	1113.9	1179.5	1169.7	1102.7	1129.2	1122.2	1132.0	1157.1	1165.5
7678.4	62.5°	3149.0	1027.3	1059.4	1045.5	1019.0	1065.0	1081.8	1060.8	1080.4	1090.1
7487.2	65°	2900.5	957.5	942.2	932.4	943.6	985.5	1019.0	977.1	995.2	1023.1
6750.2	67.5°	2490.2	862.6	820.7	831.9	866.8	889.1	932.4	885.0	900.3	947.8
5436.7	70°	2014.2	742.6	704.9	737.0	770.5	816.6	823.5	791.4	827.7	880.8
3317.9	72.5°	1425.1	621.1	594.6	660.2	671.4	731.4	716.1	700.7	751.0	769.1
1640.1	75°	988.2	501.1	485.7	536.0	576.5	628.1	617.0	635.1	741.2	749.6
819.4	77.5°	625.3	389.4	379.7	411.8	467.6	524.8	543.0	749.6	1266.0	1316.3
425.7	80°	362.9	290.3	279.2	304.3	353.1	406.2	523.4	919.9	834.7	824.9
191.2	82.5°	202.4	199.6	185.6	192.6	235.9	293.1	739.8	647.7	526.2	543.0
76.8	85°	94.9	117.2	100.5	96.3	132.6	343.4	494.1	369.9	245.7	240.1
16.7	87.5°	25.1	22.3	22.3	25.1	55.8	295.9	196.8	157.7	93.5	90.7
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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