

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: P956572

Luminaire Tested: **GALN-SB9A-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956572  
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-SB9A-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

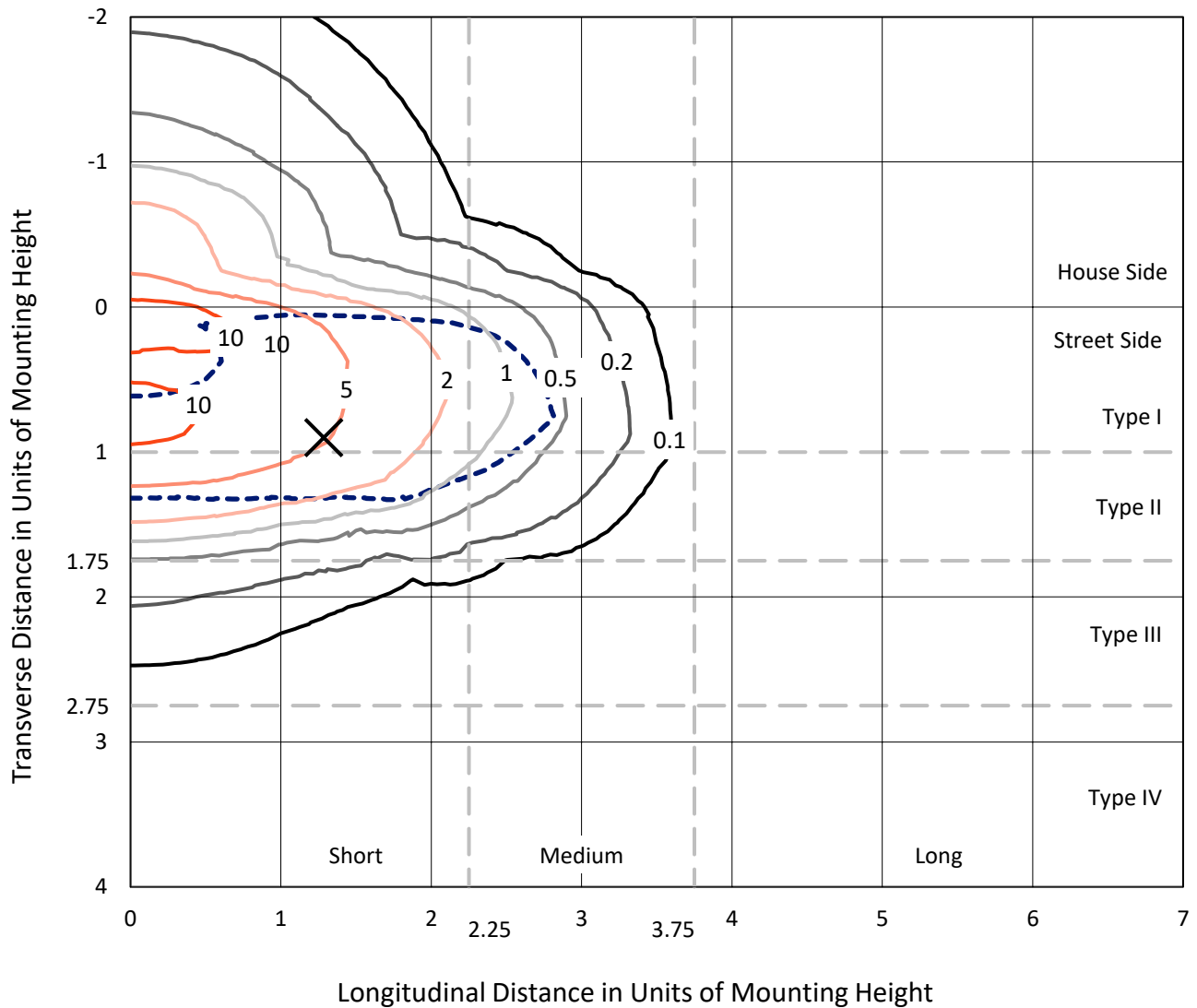
Lumens per Lamp: N/A  
Luminaire Lumens: 30111 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

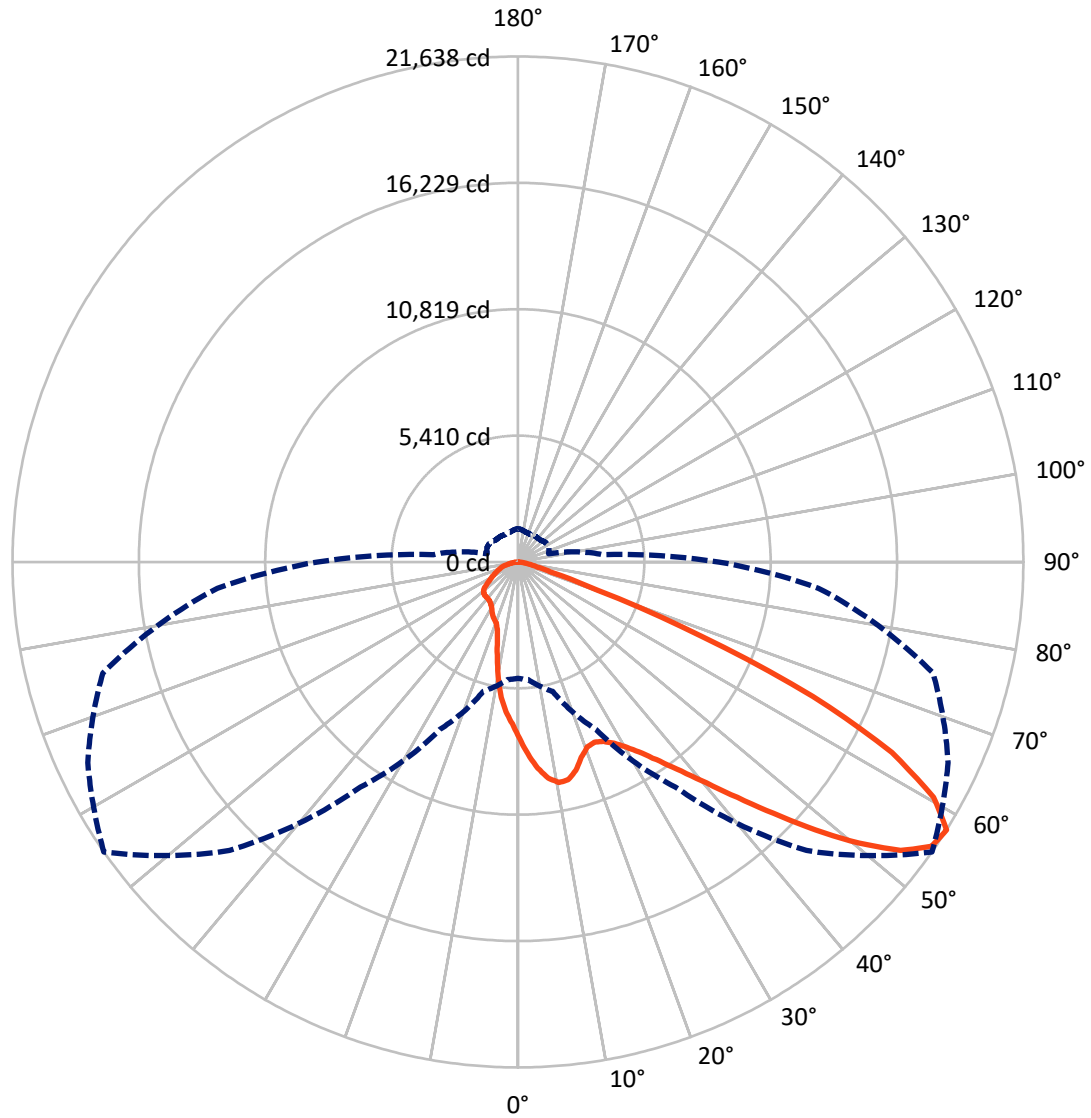
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	5448.4	0.0	5448.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	24662.6	0.0	24662.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	30111.0	0.0	30111.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	700.1	2.3
10°-20°	1767.1	5.9
20°-30°	2819.8	9.4
30°-40°	4464.5	14.8
40°-50°	6833.4	22.7
50°-60°	7319.2	24.3
60°-70°	4604.5	15.3
70°-80°	1361.6	4.5
80°-90°	240.8	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°	30111.0	100.0
0°-180°	30111.0	100.0

**Coefficient of Utilization**



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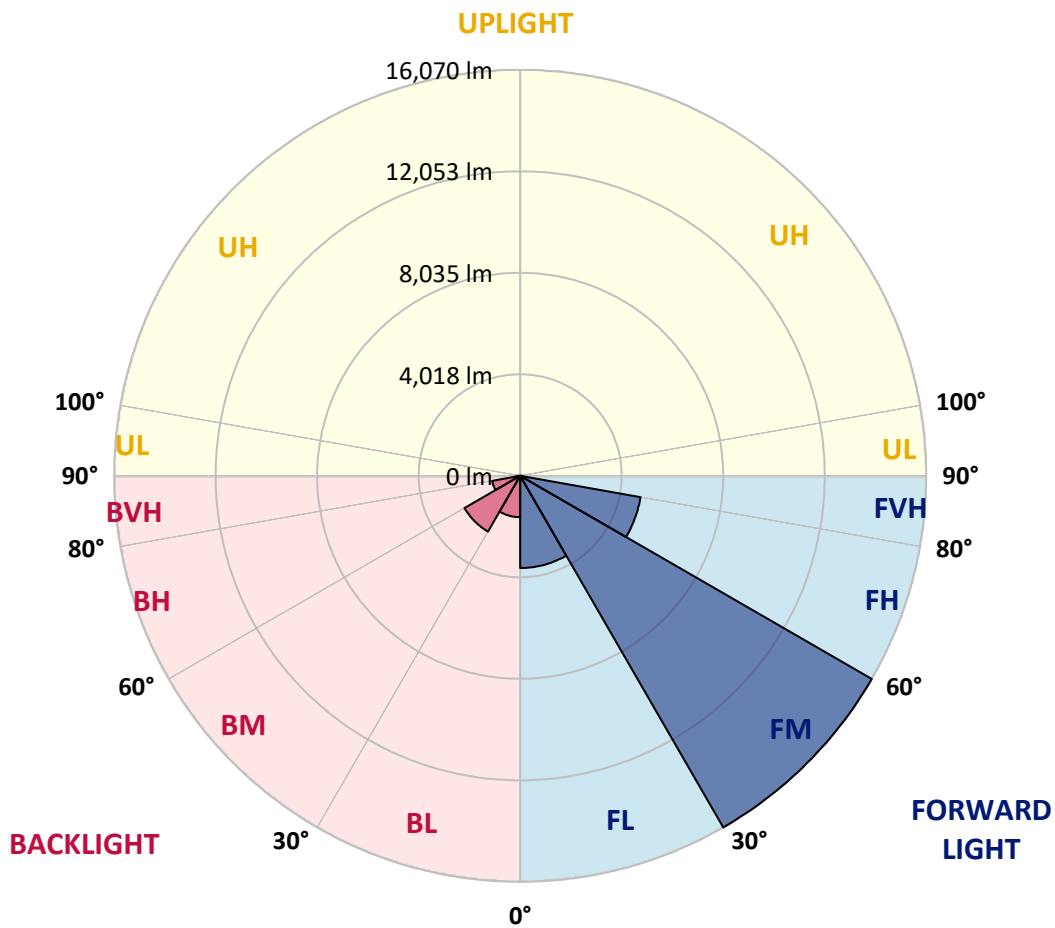
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3649.5	12.1			
FM (30°-60°)	16070.5	53.4			
FH (60°-80°)	4840.9	16.1			G2/5000
FVH (80°-90°)	101.7	0.3			G2/225
BL (0°-30°)	1637.6	5.4	B3/2500		
BM (30°-60°)	2546.6	8.5	B3/5000		
BH (60°-80°)	1125.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	139.0	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°	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8
2.5°	8656.3	8650.0	8684.3	8567.5	8488.1	8380.7	8239.1	8058.5	7863.9	7658.5
5°	9436.1	9381.6	9417.4	9330.3	9243.1	9081.2	8871.1	8576.9	8217.3	7807.9
7.5°	9313.1	9275.8	9367.6	9445.4	9510.8	9490.6	9336.5	9028.3	8564.4	7969.8
10°	8321.6	8279.6	8408.8	8678.0	9073.4	9417.4	9604.2	9412.8	8919.3	8147.2
12.5°	7446.8	7426.5	7512.2	7730.1	8169.0	8829.0	9570.0	9749.0	9288.2	8357.4
15°	7073.2	7048.3	7102.8	7213.3	7493.5	8108.3	9258.7	9979.4	9650.9	8600.2
17.5°	6990.7	6962.7	6986.0	7043.6	7224.2	7692.7	8788.6	10093.0	10029.2	8871.1
20°	7143.2	7119.9	7123.0	7119.9	7246.0	7618.0	8461.7	10049.4	10359.2	9120.1
22.5°	7512.2	7473.2	7474.8	7392.3	7460.8	7748.8	8376.1	9932.7	10653.4	9338.0
25°	8113.0	8043.0	8057.0	7846.8	7828.1	8041.4	8509.9	9842.4	10946.0	9512.4
27.5°	8934.9	8855.5	8813.5	8500.6	8351.2	8457.0	8782.3	9873.5	11223.1	9663.4
30°	9962.2	9865.7	9780.1	9336.5	9065.6	9026.7	9205.7	10079.0	11550.0	9822.1
32.5°	11221.5	11109.5	10953.8	10365.4	9984.0	9780.1	9753.7	10444.8	11932.9	10024.5
35°	12720.5	12574.2	12353.2	11592.0	11109.5	10692.3	10475.9	10972.5	12457.5	10329.6
37.5°	14264.7	14099.7	13897.3	12991.4	12398.3	11783.5	11357.0	11688.5	13156.4	10743.7
40°	15689.0	15503.7	15315.4	14509.1	13872.4	13131.5	12435.7	12594.4	14011.0	11238.7
42.5°	16529.5	16392.6	16320.9	15885.1	15393.2	14641.4	13777.5	13668.5	14971.4	11808.4
45°	16492.2	16436.1	16657.2	16837.7	16721.0	16303.8	15349.6	14856.2	15934.9	12301.8
47.5°	15611.1	15648.5	16141.9	17156.8	17603.6	17821.5	17139.7	16022.1	16772.4	12670.7
50°	13214.0	13245.1	14387.7	16576.2	17830.9	19059.0	18915.8	17160.0	17421.5	12896.4
52.5°	11316.5	11336.7	11827.0	14854.6	17080.6	19681.6	20516.0	18232.5	17896.2	12958.7
55°	8523.9	8594.0	9143.5	11654.3	15128.6	19188.2	21490.4	19337.6	18196.7	12964.9
57.5°	4979.6	5055.8	5734.5	7910.6	11758.6	17468.2	21638.3	20318.3	18400.6	12915.1
60°	2439.2	2471.9	2767.6	4157.7	7250.6	14154.2	20449.1	20793.1	18514.2	12888.6
62.5°	1643.8	1639.1	1651.6	2051.6	3572.4	9093.7	17970.9	19961.8	18453.5	12787.5
65°	1413.4	1396.3	1349.6	1439.9	1850.8	4159.2	13884.9	17480.6	17991.2	12533.7
67.5°	1221.9	1223.5	1225.0	1197.0	1321.6	1919.3	8485.0	13769.7	16331.8	11332.0
70°	1011.8	1025.8	1032.0	1032.0	1077.2	1259.3	3622.2	9437.7	12882.4	8885.1
72.5°	921.5	891.9	895.0	879.5	879.5	958.9	1458.5	5350.0	8116.1	4998.2
75°	751.8	770.5	773.6	762.7	726.9	731.6	865.5	2244.6	3472.8	2073.4
77.5°	649.1	649.1	655.3	647.5	619.5	547.9	577.5	870.1	1181.5	849.9
80°	521.5	519.9	546.4	561.9	518.3	404.7	368.9	481.0	524.6	373.6
82.5°	253.7	269.3	375.1	428.1	393.8	292.6	225.7	298.9	280.2	165.0
85°	147.9	140.1	168.1	238.2	225.7	161.9	109.0	155.7	146.3	84.1
87.5°	46.7	43.6	34.2	80.9	65.4	45.1	29.6	45.1	40.5	18.7
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°
7544.8	0°	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8	7544.8
7569.7	2.5°	7459.2	7275.5	7093.4	6926.9	6825.7	6760.3	6694.9	6621.8	6593.8	6551.7
7590.0	5°	7384.5	7029.6	6713.6	6441.2	6193.7	5999.1	5803.0	5644.2	5572.6	5620.9
7653.8	7.5°	7340.9	6827.2	6340.0	5840.4	5359.4	4974.9	4640.2	4405.2	4299.3	4325.8
7716.1	10°	7302.0	6598.4	5855.9	5066.7	4375.6	3899.3	3556.8	3377.8	3310.9	3324.9
7800.1	12.5°	7266.2	6341.6	5272.2	4234.0	3499.2	3184.8	3086.7	3088.3	3100.7	3110.1
7934.0	15°	7260.0	6031.8	4620.0	3505.5	3026.0	3005.8	3111.6	3178.6	3214.4	3225.3
8046.1	17.5°	7250.6	5661.4	3955.3	3008.9	2910.8	3047.8	3145.9	3189.5	3217.5	3219.0
8155.0	20°	7213.3	5191.3	3342.0	2772.3	2885.9	3004.2	3064.9	3099.2	3122.5	3130.3
8237.5	22.5°	7098.1	4668.2	2864.1	2666.5	2786.3	2881.3	2952.9	2991.8	3005.8	3015.1
8253.1	25°	6891.1	4083.0	2534.1	2565.3	2647.8	2767.6	2825.2	2833.0	2828.3	2842.4
8214.2	27.5°	6620.2	3455.7	2328.7	2428.3	2534.1	2636.9	2668.0	2663.3	2654.0	2669.6
8147.2	30°	6293.3	2892.2	2197.9	2274.2	2419.0	2512.4	2540.4	2529.5	2510.8	2527.9
8113.0	32.5°	5947.8	2431.4	2090.5	2166.8	2324.0	2415.8	2443.9	2433.0	2419.0	2433.0
8151.9	35°	5625.6	2109.2	1990.9	2095.2	2249.3	2339.6	2375.4	2376.9	2376.9	2394.1
8254.6	37.5°	5329.8	1920.8	1908.4	2050.0	2197.9	2278.9	2330.2	2333.3	2266.4	2271.1
8429.0	40°	5055.8	1841.5	1871.0	2020.5	2148.1	2225.9	2229.1	2054.7	1931.7	1928.6
8628.2	42.5°	4831.7	1825.9	1881.9	2017.4	2112.3	2115.4	1895.9	1760.5	1726.3	1727.8
8811.9	45°	4621.5	1821.2	1906.8	2017.4	2059.4	1827.4	1679.6	1643.8	1646.9	1659.3
8894.4	47.5°	4386.5	1802.5	1911.5	1989.3	1906.8	1625.1	1581.5	1565.9	1559.7	1562.8
8875.7	50°	4129.7	1735.6	1852.4	1933.3	1645.3	1537.9	1483.4	1478.8	1486.6	1491.2
8771.4	52.5°	3858.8	1626.6	1751.2	1832.1	1525.5	1461.6	1400.9	1411.8	1446.1	1457.0
8662.5	55°	3681.4	1499.0	1617.3	1629.8	1441.4	1390.0	1338.7	1363.6	1427.4	1447.6
8597.1	57.5°	3634.7	1363.6	1464.8	1450.8	1334.0	1327.8	1296.6	1318.4	1399.4	1429.0
8594.0	60°	3620.7	1242.2	1315.3	1304.4	1229.7	1259.3	1251.5	1262.4	1290.4	1299.8
8562.9	62.5°	3511.7	1145.7	1181.5	1165.9	1136.3	1187.7	1206.4	1183.0	1204.8	1215.7
8349.6	65°	3234.6	1067.8	1050.7	1039.8	1052.3	1099.0	1136.3	1089.6	1109.9	1141.0
7527.7	67.5°	2777.0	962.0	915.3	927.7	966.6	991.6	1039.8	986.9	1004.0	1056.9
6063.0	70°	2246.2	828.1	786.1	821.9	859.2	910.6	918.4	882.6	923.1	982.2
3700.0	72.5°	1589.3	692.7	663.1	736.3	748.7	815.7	798.5	781.4	837.5	857.7
1829.0	75°	1102.1	558.8	541.7	597.7	642.9	700.5	688.0	708.3	826.6	835.9
913.7	77.5°	697.4	434.3	423.4	459.2	521.5	585.3	605.5	835.9	1411.8	1467.9
474.8	80°	404.7	323.8	311.3	339.3	393.8	453.0	583.7	1025.8	930.8	920.0
213.3	82.5°	225.7	222.6	207.0	214.8	263.1	326.9	825.0	722.3	586.8	605.5
85.6	85°	105.8	130.8	112.1	107.4	147.9	382.9	551.0	412.5	274.0	267.7
18.7	87.5°	28.0	24.9	24.9	28.0	62.3	330.0	219.5	175.9	104.3	101.2
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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