

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: P951448

Luminaire Tested: **GALN-SB5C-835-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951448  
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-SB5C-835-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

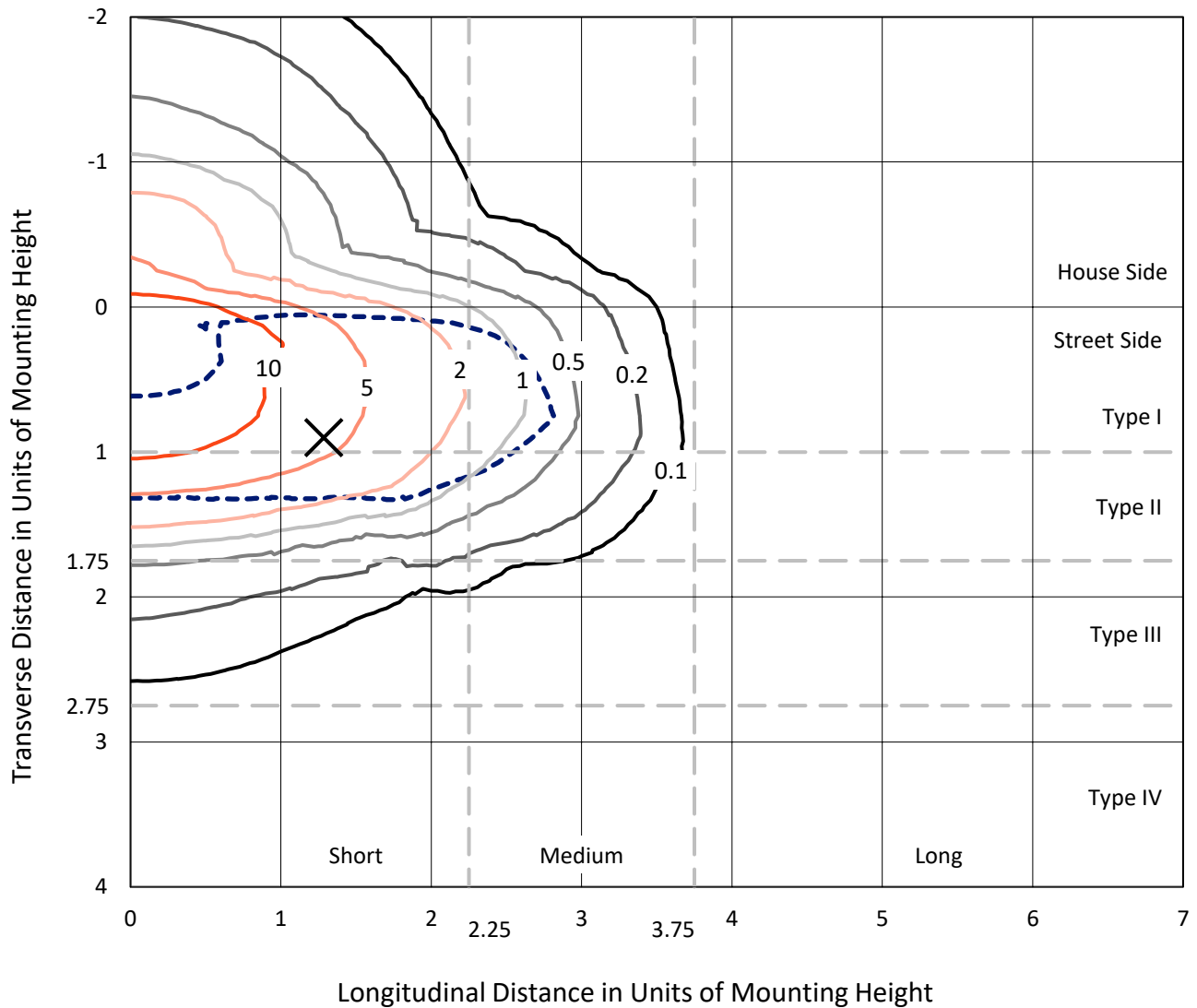
Lumens per Lamp: N/A  
Luminaire Lumens: 35687 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

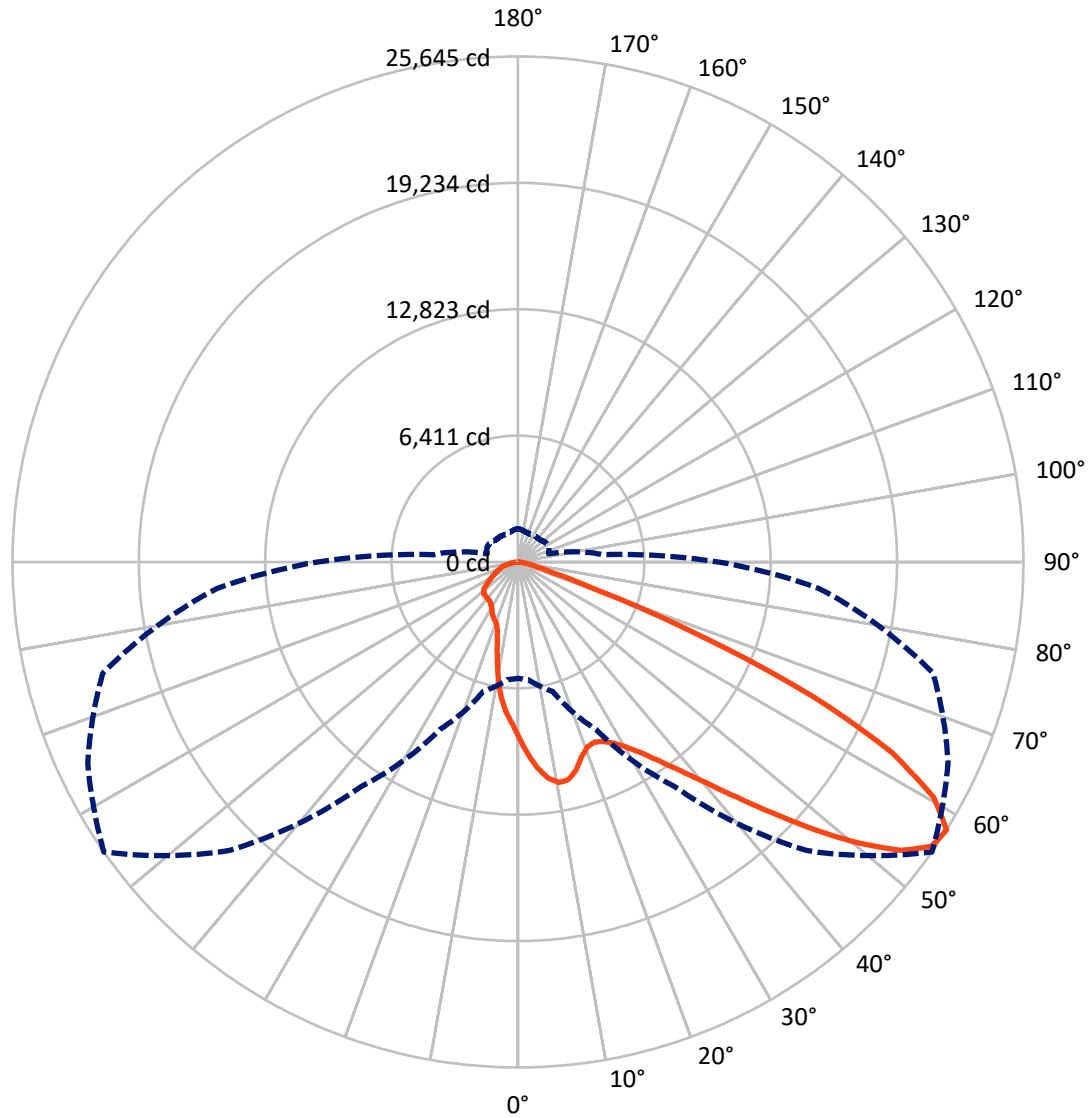
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	6457.4	0.0	6457.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29229.6	0.0	29229.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35687.0	0.0	35687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.8	2.3
10°-20°	2094.4	5.9
20°-30°	3342.0	9.4
30°-40°	5291.2	14.8
40°-50°	8098.8	22.7
50°-60°	8674.5	24.3
60°-70°	5457.2	15.3
70°-80°	1613.8	4.5
80°-90°	285.3	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°	35687.0	100.0
0°-180°	35687.0	100.0

**Coefficient of Utilization**



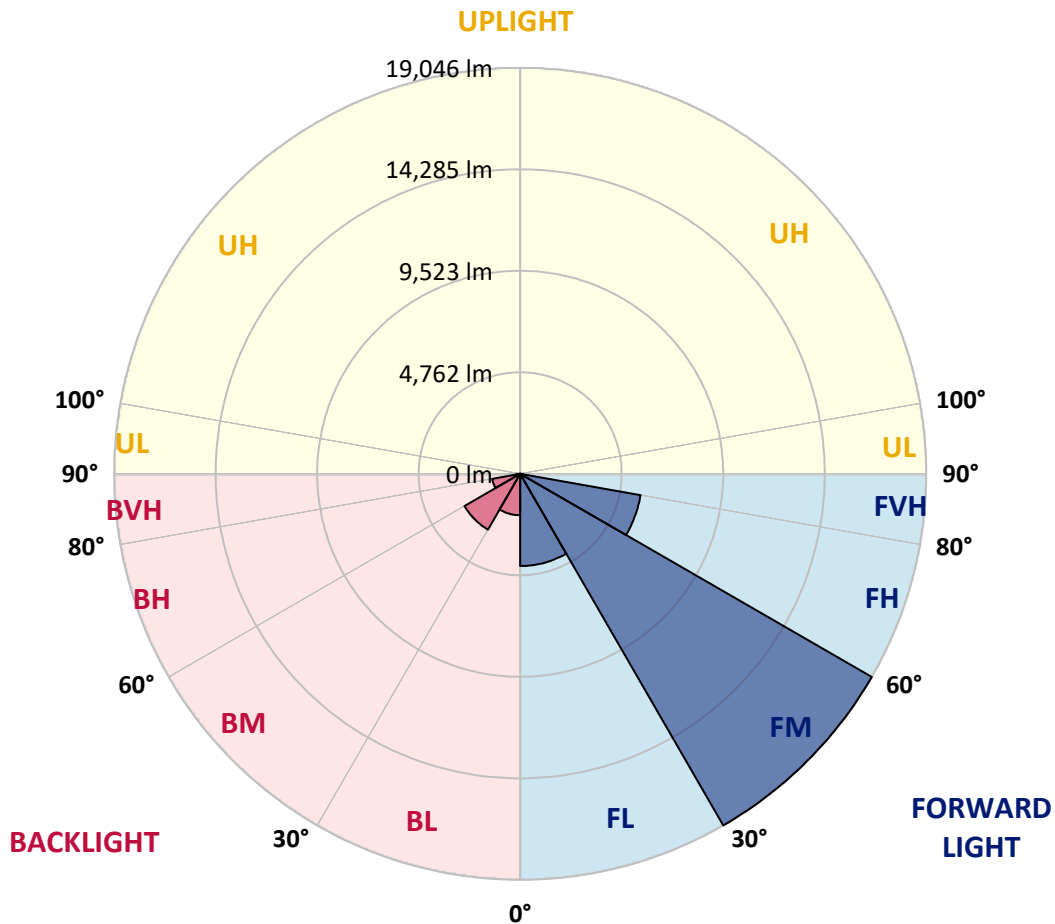
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4325.3	12.1			
FM (30°-60°)	19046.4	53.4			
FH (60°-80°)	5737.4	16.1			G3/7500
FVH (80°-90°)	120.6	0.3			G2/225
BL (0°-30°)	1940.9	5.4	B3/2500		
BM (30°-60°)	3018.1	8.5	B3/5000		
BH (60°-80°)	1333.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	164.8	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°	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0
2.5°	10259.2	10251.8	10292.4	10154.1	10060.0	9932.7	9764.8	9550.8	9320.2	9076.7
5°	11183.5	11118.9	11161.4	11058.1	10954.7	10762.9	10513.8	10165.1	9739.0	9253.8
7.5°	11037.8	10993.5	11102.3	11194.6	11272.1	11248.1	11065.4	10700.1	10150.4	9445.6
10°	9862.6	9812.8	9965.9	10285.1	10753.6	11161.4	11382.7	11155.8	10571.0	9656.0
12.5°	8825.8	8801.8	8903.3	9161.5	9681.8	10464.0	11342.2	11554.3	11008.2	9905.0
15°	8383.0	8353.5	8418.1	8549.1	8881.1	9609.8	10973.2	11827.4	11438.1	10192.8
17.5°	8285.2	8252.0	8279.7	8348.0	8562.0	9117.3	10416.0	11962.0	11886.4	10513.8
20°	8466.0	8438.4	8442.0	8438.4	8587.8	9028.7	10028.6	11910.4	12277.5	10809.0
22.5°	8903.3	8857.1	8859.0	8761.2	8842.4	9183.7	9927.2	11772.0	12626.2	11067.3
25°	9615.4	9532.4	9549.0	9299.9	9277.8	9530.5	10085.8	11665.0	12973.0	11273.9
27.5°	10589.5	10495.4	10445.6	10074.7	9897.6	10023.1	10408.7	11701.9	13301.4	11452.8
30°	11807.1	11692.7	11591.2	11065.4	10744.4	10698.3	10910.5	11945.4	13688.8	11641.0
32.5°	13299.5	13166.7	12982.2	12284.9	11832.9	11591.2	11559.9	12379.0	14142.6	11880.9
35°	15076.1	14902.7	14640.8	13738.6	13166.7	12672.3	12415.9	13004.4	14764.4	12242.4
37.5°	16906.2	16710.7	16470.9	15397.1	14694.3	13965.5	13460.0	13853.0	15592.7	12733.2
40°	18594.3	18374.7	18151.5	17195.9	16441.3	15563.2	14738.5	14926.7	16605.5	13319.8
42.5°	19590.5	19428.1	19343.3	18826.7	18243.8	17352.7	16328.8	16199.7	17743.8	13995.1
45°	19546.2	19479.8	19741.8	19955.8	19817.4	19323.0	18192.1	17607.3	18885.8	14579.9
47.5°	18502.0	18546.3	19131.1	20334.0	20863.4	21121.7	20313.7	18989.1	19878.3	15017.1
50°	15661.0	15697.9	17052.0	19645.8	21132.8	22588.4	22418.7	20337.7	20647.6	15284.6
52.5°	13412.1	13436.1	14017.2	17605.4	20243.6	23326.3	24315.2	21608.8	21210.3	15358.4
55°	10102.4	10185.4	10836.7	13812.4	17930.1	22741.5	25470.0	22918.6	21566.3	15365.8
57.5°	5901.7	5992.1	6796.4	9375.5	13936.0	20702.9	25645.3	24080.9	21808.0	15306.7
60°	2890.9	2929.6	3280.1	4927.6	8593.3	16775.3	24235.8	24643.6	21942.7	15275.4
62.5°	1948.2	1942.6	1957.4	2431.5	4233.9	10777.6	21298.8	23658.4	21870.7	15155.5
65°	1675.1	1654.8	1599.5	1706.5	2193.5	4929.4	16456.1	20717.7	21322.8	14854.8
67.5°	1448.2	1450.1	1451.9	1418.7	1566.3	2274.7	10056.3	16319.6	19356.2	13430.5
70°	1199.2	1215.8	1223.1	1223.1	1276.6	1492.5	4293.0	11185.3	15268.0	10530.4
72.5°	1092.2	1057.1	1060.8	1042.3	1042.3	1136.4	1728.6	6340.8	9619.1	5923.8
75°	891.1	913.2	916.9	904.0	861.5	867.1	1025.7	2660.3	4115.9	2457.3
77.5°	769.3	769.3	776.7	767.5	734.3	649.4	684.4	1031.3	1400.2	1007.3
80°	618.0	616.2	647.5	666.0	614.3	479.7	437.2	570.1	621.7	442.8
82.5°	300.7	319.2	444.6	507.3	466.7	346.8	267.5	354.2	332.1	195.6
85°	175.3	166.0	199.2	282.3	267.5	191.9	129.1	184.5	173.4	99.6
87.5°	55.3	51.7	40.6	95.9	77.5	53.5	35.1	53.5	48.0	22.1
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°
8942.0	0°	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0	8942.0
8971.5	2.5°	8840.5	8622.8	8407.0	8209.6	8089.7	8012.2	7934.7	7848.0	7814.8	7765.0
8995.5	5°	8752.0	8331.4	7956.9	7634.0	7340.7	7110.1	6877.6	6689.4	6604.6	6661.8
9071.1	7.5°	8700.3	8091.5	7514.1	6921.9	6351.8	5896.2	5499.5	5220.9	5095.5	5126.8
9144.9	10°	8654.2	7820.3	6940.3	6005.0	5185.9	4621.4	4215.5	4003.3	3924.0	3940.6
9244.6	12.5°	8611.8	7515.9	6248.5	5018.0	4147.2	3774.6	3658.3	3660.2	3674.9	3686.0
9403.2	15°	8604.4	7148.8	5475.5	4154.6	3586.4	3562.4	3687.9	3767.2	3809.6	3822.5
9536.0	17.5°	8593.3	6709.7	4687.8	3566.1	3449.9	3612.2	3728.4	3780.1	3813.3	3815.2
9665.2	20°	8549.1	6152.6	3960.9	3285.7	3420.4	3560.6	3632.5	3673.1	3700.8	3710.0
9763.0	22.5°	8412.5	5532.7	3394.5	3160.2	3302.3	3414.8	3499.7	3545.8	3562.4	3573.5
9781.4	25°	8167.2	4839.1	3003.4	3040.3	3138.1	3280.1	3348.4	3357.6	3352.1	3368.7
9735.3	27.5°	7846.2	4095.6	2759.9	2878.0	3003.4	3125.2	3162.1	3156.5	3145.5	3163.9
9656.0	30°	7458.7	3427.7	2604.9	2695.3	2866.9	2977.6	3010.8	2997.9	2975.7	2996.0
9615.4	32.5°	7049.2	2881.7	2477.6	2568.0	2754.4	2863.2	2896.4	2883.5	2866.9	2883.5
9661.5	35°	6667.3	2499.8	2359.6	2483.2	2665.8	2772.8	2815.2	2817.1	2817.1	2837.4
9783.3	37.5°	6316.8	2276.5	2261.8	2429.7	2604.9	2700.9	2761.7	2765.4	2686.1	2691.6
9989.9	40°	5992.1	2182.5	2217.5	2394.6	2545.9	2638.1	2641.8	2435.2	2289.5	2285.8
10226.0	42.5°	5726.4	2164.0	2230.4	2390.9	2503.5	2507.2	2247.0	2086.5	2045.9	2047.8
10443.7	45°	5477.4	2158.5	2259.9	2390.9	2440.7	2165.9	1990.6	1948.2	1951.9	1966.6
10541.5	47.5°	5198.8	2136.3	2265.5	2357.7	2259.9	1926.0	1874.4	1855.9	1848.5	1852.2
10519.4	50°	4894.4	2057.0	2195.4	2291.3	1950.0	1822.7	1758.1	1752.6	1761.8	1767.4
10395.7	52.5°	4573.4	1927.9	2075.5	2171.4	1808.0	1732.3	1660.4	1673.3	1713.9	1726.8
10266.6	55°	4363.1	1776.6	1916.8	1931.6	1708.3	1647.5	1586.6	1616.1	1691.7	1715.7
10189.1	57.5°	4307.7	1616.1	1736.0	1719.4	1581.0	1573.7	1536.8	1562.6	1658.5	1693.6
10185.4	60°	4291.1	1472.2	1558.9	1546.0	1457.4	1492.5	1483.3	1496.2	1529.4	1540.5
10148.5	62.5°	4162.0	1357.8	1400.2	1381.8	1346.7	1407.6	1429.8	1402.1	1427.9	1440.8
9895.8	65°	3833.6	1265.6	1245.3	1232.4	1247.1	1302.5	1346.7	1291.4	1315.4	1352.3
8921.7	67.5°	3291.2	1140.1	1084.8	1099.5	1145.7	1175.2	1232.4	1169.6	1189.9	1252.7
7185.7	70°	2662.1	981.5	931.7	974.1	1018.4	1079.2	1088.5	1046.0	1094.0	1164.1
4385.2	72.5°	1883.6	821.0	785.9	872.6	887.4	966.7	946.4	926.1	992.5	1016.5
2167.7	75°	1306.2	662.3	642.0	708.4	761.9	830.2	815.4	839.4	979.6	990.7
1082.9	77.5°	826.5	514.7	501.8	544.2	618.0	693.7	717.6	990.7	1673.3	1739.7
562.7	80°	479.7	383.7	369.0	402.2	466.7	536.9	691.8	1215.8	1103.2	1090.3
252.7	82.5°	267.5	263.8	245.4	254.6	311.8	387.4	977.8	856.0	695.5	717.6
101.5	85°	125.5	155.0	132.8	127.3	175.3	453.8	653.1	488.9	324.7	317.3
22.1	87.5°	33.2	29.5	29.5	33.2	73.8	391.1	260.1	208.5	123.6	119.9
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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