

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: P946471

Luminaire Tested: **GALN-SB2A-840-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946471  
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-SB2A-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

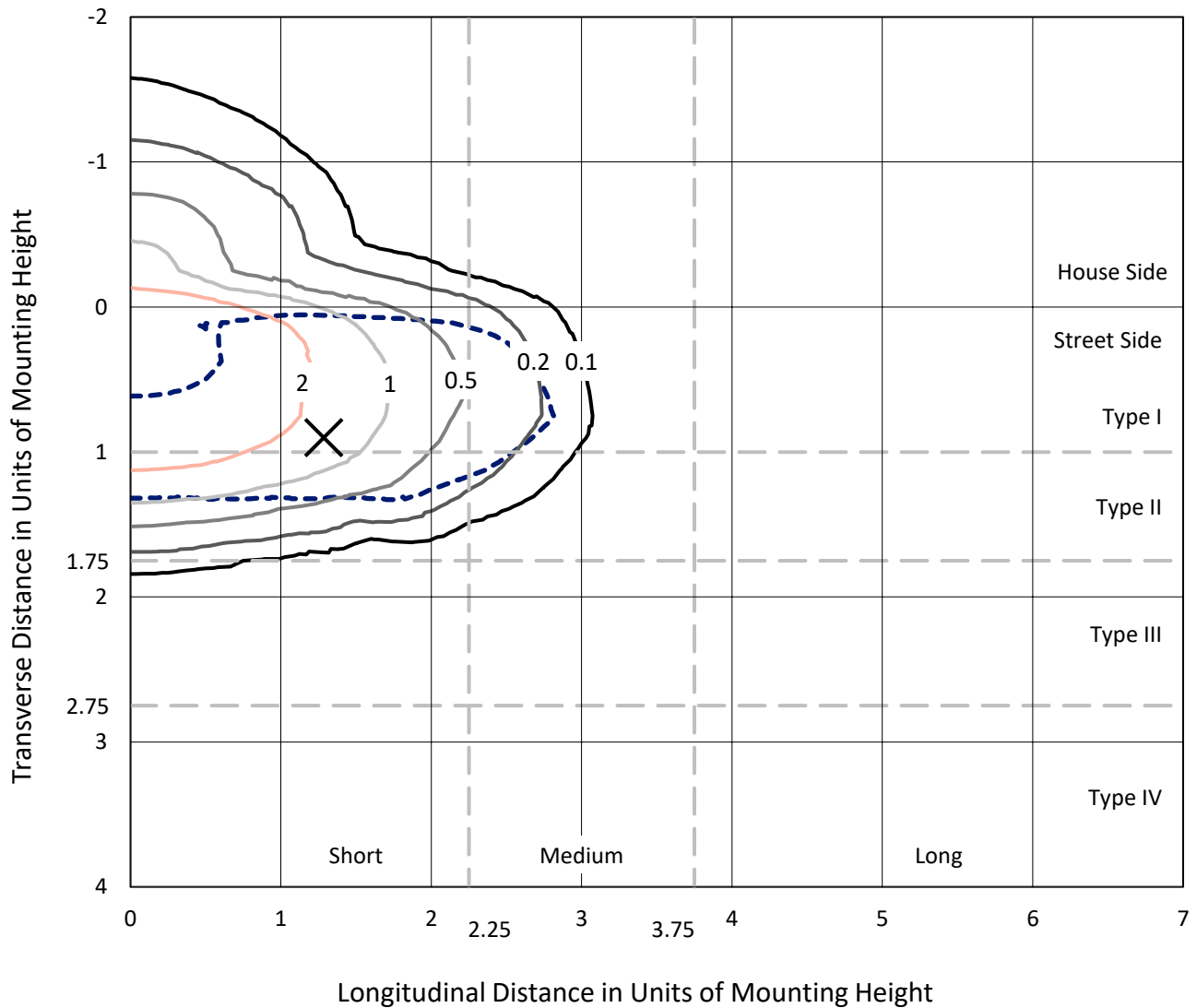
Lumens per Lamp: N/A  
Luminaire Lumens: 8727 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

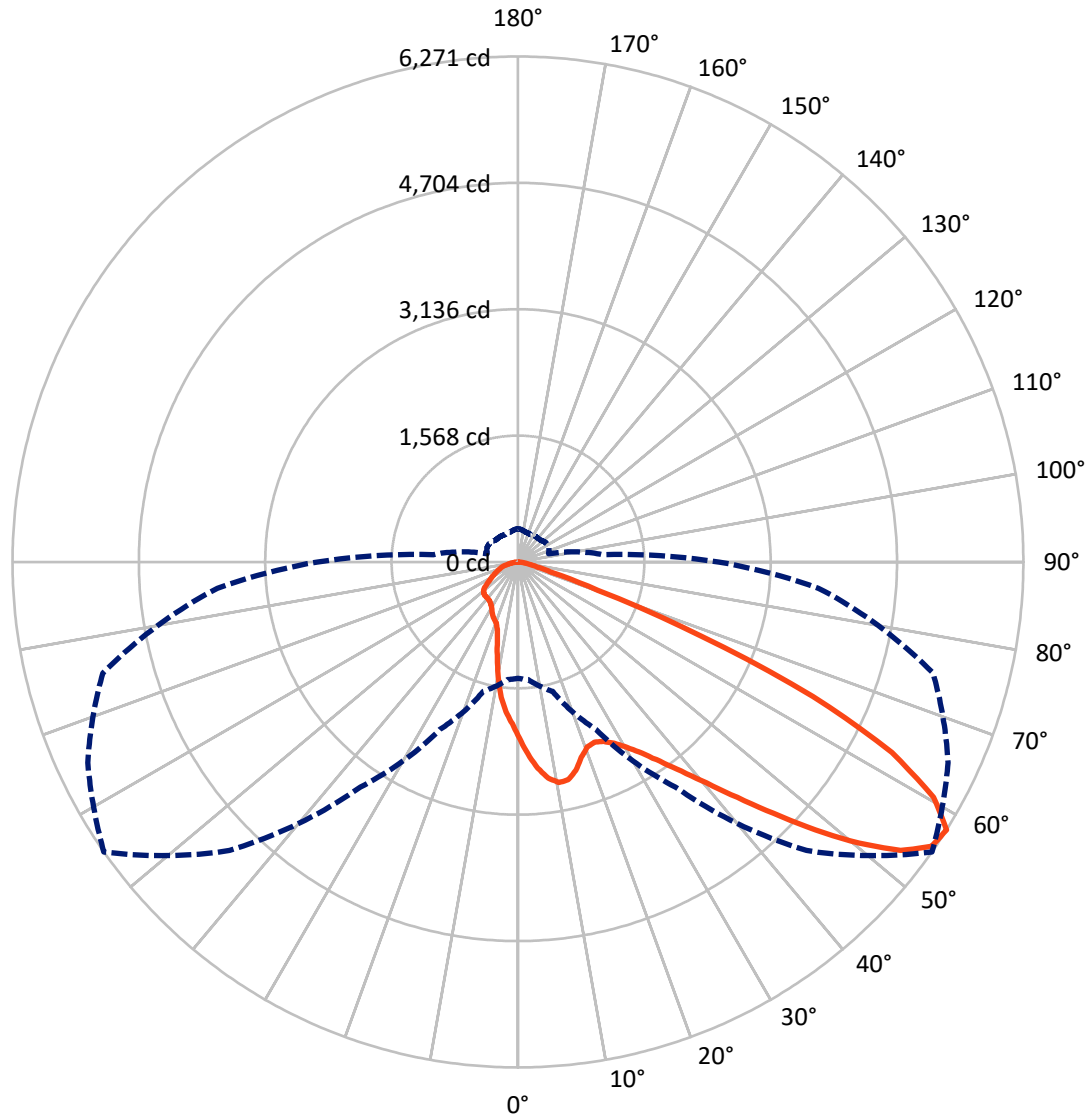
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1579.1	0.0	1579.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7147.9	0.0	7147.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	8727.0	0.0	8727.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.9	2.3
10°-20°	512.2	5.9
20°-30°	817.3	9.4
30°-40°	1293.9	14.8
40°-50°	1980.5	22.7
50°-60°	2121.3	24.3
60°-70°	1334.5	15.3
70°-80°	394.6	4.5
80°-90°	69.8	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°	8727.0	100.0
0°-180°	8727.0	100.0



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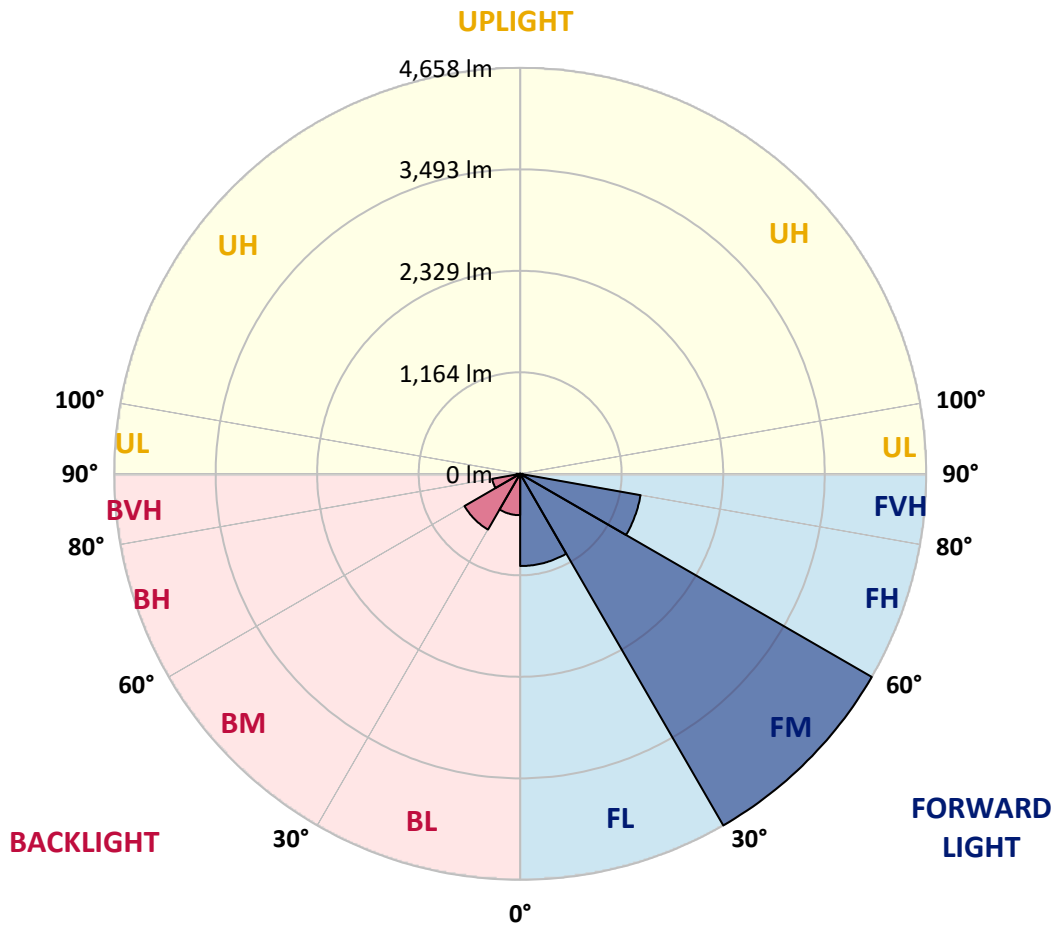
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.7	12.1			
FM (30°-60°)	4657.7	53.4			
FH (60°-80°)	1403.0	16.1			G1/1800
FVH (80°-90°)	29.5	0.3			G1/100
BL (0°-30°)	474.6	5.4	B1/500		
BM (30°-60°)	738.1	8.5	B1/1000		
BH (60°-80°)	326.1	3.7	B1/500		G1/500
BVH (80°-90°)	40.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2508.8	2507.0	2516.9	2483.1	2460.1	2429.0	2387.9	2335.6	2279.2	2219.6
5°	2734.8	2719.1	2729.4	2704.2	2678.9	2632.0	2571.1	2485.8	2381.6	2262.9
7.5°	2699.2	2688.4	2715.0	2737.6	2756.5	2750.6	2706.0	2616.6	2482.2	2309.9
10°	2411.8	2399.6	2437.1	2515.1	2629.7	2729.4	2783.6	2728.1	2585.1	2361.3
12.5°	2158.3	2152.4	2177.2	2240.4	2367.6	2558.9	2773.6	2825.5	2692.0	2422.2
15°	2050.0	2042.8	2058.6	2090.6	2171.8	2350.0	2683.4	2892.3	2797.1	2492.6
17.5°	2026.1	2018.0	2024.7	2041.4	2093.8	2229.6	2547.2	2925.2	2906.7	2571.1
20°	2070.3	2063.5	2064.4	2063.5	2100.1	2207.9	2452.4	2912.6	3002.4	2643.3
22.5°	2177.2	2166.0	2166.4	2142.5	2162.3	2245.8	2427.6	2878.8	3087.6	2706.4
25°	2351.4	2331.1	2335.1	2274.2	2268.8	2330.6	2466.4	2852.6	3172.5	2757.0
27.5°	2589.6	2566.6	2554.4	2463.7	2420.4	2451.1	2545.4	2861.6	3252.8	2800.7
30°	2887.3	2859.4	2834.5	2706.0	2627.5	2616.2	2668.1	2921.2	3347.5	2846.7
32.5°	3252.3	3219.8	3174.7	3004.2	2893.6	2834.5	2826.9	3027.2	3458.5	2905.4
35°	3686.8	3644.4	3580.3	3359.7	3219.8	3098.9	3036.2	3180.1	3610.5	2993.8
37.5°	4134.3	4086.5	4027.8	3765.3	3593.4	3415.2	3291.6	3387.7	3813.1	3113.8
40°	4547.1	4493.4	4438.8	4205.1	4020.6	3805.9	3604.2	3650.2	4060.8	3257.3
42.5°	4790.7	4751.0	4730.3	4603.9	4461.4	4243.5	3993.1	3961.5	4339.1	3422.4
45°	4779.9	4763.6	4827.7	4880.0	4846.2	4725.3	4448.7	4305.7	4618.4	3565.4
47.5°	4524.5	4535.4	4678.4	4972.5	5102.0	5165.2	4967.6	4643.6	4861.1	3672.3
50°	3829.8	3838.8	4169.9	4804.2	5167.9	5523.8	5482.3	4973.4	5049.2	3737.7
52.5°	3279.8	3285.7	3427.8	4305.3	4950.4	5704.3	5946.1	5284.3	5186.8	3755.8
55°	2470.5	2490.8	2650.0	3377.7	4384.7	5561.3	6228.5	5604.6	5273.9	3757.6
57.5°	1443.2	1465.3	1662.0	2292.7	3408.0	5062.8	6271.4	5888.8	5333.0	3743.2
60°	706.9	716.4	802.1	1205.0	2101.4	4102.3	5926.7	6026.4	5365.9	3735.5
62.5°	476.4	475.1	478.7	594.6	1035.4	2635.6	5208.5	5785.5	5348.3	3706.2
65°	409.6	404.7	391.1	417.3	536.4	1205.5	4024.2	5066.4	5214.3	3632.6
67.5°	354.1	354.6	355.1	346.9	383.0	556.3	2459.2	3990.8	4733.4	3284.3
70°	293.2	297.3	299.1	299.1	312.2	365.0	1049.8	2735.3	3733.7	2575.1
72.5°	267.1	258.5	259.4	254.9	254.9	277.9	422.7	1550.6	2352.3	1448.6
75°	217.9	223.3	224.2	221.1	210.7	212.0	250.8	650.6	1006.5	600.9
77.5°	188.1	188.1	189.9	187.7	179.6	158.8	167.4	252.2	342.4	246.3
80°	151.1	150.7	158.4	162.9	150.2	117.3	106.9	139.4	152.0	108.3
82.5°	73.5	78.0	108.7	124.1	114.1	84.8	65.4	86.6	81.2	47.8
85°	42.9	40.6	48.7	69.0	65.4	46.9	31.6	45.1	42.4	24.4
87.5°	13.5	12.6	9.9	23.5	18.9	13.1	8.6	13.1	11.7	5.4
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°
2186.7	0°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2193.9	2.5°	2161.9	2108.7	2055.9	2007.6	1978.3	1959.3	1940.4	1919.2	1911.1	1898.9
2199.8	5°	2140.2	2037.4	1945.8	1866.8	1795.1	1738.7	1681.9	1635.9	1615.1	1629.1
2218.3	7.5°	2127.6	1978.7	1837.5	1692.7	1553.3	1441.9	1344.9	1276.7	1246.1	1253.7
2236.3	10°	2116.3	1912.4	1697.2	1468.5	1268.2	1130.1	1030.9	979.0	959.6	963.6
2260.7	12.5°	2105.9	1838.0	1528.0	1227.1	1014.2	923.0	894.6	895.1	898.7	901.4
2299.5	15°	2104.1	1748.2	1339.0	1016.0	877.0	871.2	901.8	921.2	931.6	934.8
2332.0	17.5°	2101.4	1640.8	1146.4	872.1	843.6	883.3	911.8	924.4	932.5	933.0
2363.6	20°	2090.6	1504.6	968.6	803.5	836.4	870.7	888.3	898.2	905.0	907.3
2387.5	22.5°	2057.2	1353.0	830.1	772.8	807.6	835.1	855.8	867.1	871.2	873.9
2392.0	25°	1997.2	1183.4	734.5	743.5	767.4	802.1	818.8	821.1	819.7	823.8
2380.7	27.5°	1918.7	1001.5	674.9	703.8	734.5	764.2	773.3	771.9	769.2	773.7
2361.3	30°	1824.0	838.2	637.0	659.1	701.1	728.1	736.3	733.1	727.7	732.7
2351.4	32.5°	1723.8	704.7	605.9	628.0	673.6	700.2	708.3	705.1	701.1	705.1
2362.6	35°	1630.4	611.3	577.0	607.2	651.9	678.1	688.4	688.9	688.9	693.9
2392.4	37.5°	1544.7	556.7	553.1	594.2	637.0	660.5	675.4	676.3	656.9	658.2
2443.0	40°	1465.3	533.7	542.3	585.6	622.6	645.1	646.0	595.5	559.9	559.0
2500.7	42.5°	1400.4	529.2	545.4	584.7	612.2	613.1	549.5	510.2	500.3	500.8
2553.9	45°	1339.5	527.8	552.7	584.7	596.9	529.6	486.8	476.4	477.3	480.9
2577.8	47.5°	1271.3	522.4	554.0	576.6	552.7	471.0	458.4	453.9	452.0	453.0
2572.4	50°	1196.9	503.0	536.9	560.3	476.9	445.7	429.9	428.6	430.8	432.2
2542.2	52.5°	1118.4	471.4	507.5	531.0	442.1	423.6	406.0	409.2	419.1	422.3
2510.6	55°	1067.0	434.5	468.7	472.3	417.8	402.9	388.0	395.2	413.7	419.6
2491.7	57.5°	1053.4	395.2	424.5	420.5	386.6	384.8	375.8	382.1	405.6	414.2
2490.8	60°	1049.4	360.0	381.2	378.1	356.4	365.0	362.7	365.9	374.0	376.7
2481.8	62.5°	1017.8	332.0	342.4	337.9	329.3	344.2	349.6	342.9	349.2	352.3
2419.9	65°	937.5	309.5	304.5	301.4	305.0	318.5	329.3	315.8	321.7	330.7
2181.7	67.5°	804.8	278.8	265.3	268.9	280.2	287.4	301.4	286.0	291.0	306.3
1757.2	70°	651.0	240.0	227.8	238.2	249.0	263.9	266.2	255.8	267.5	284.7
1072.4	72.5°	460.6	200.8	192.2	213.4	217.0	236.4	231.4	226.5	242.7	248.6
530.1	75°	319.4	162.0	157.0	173.2	186.3	203.0	199.4	205.3	239.6	242.3
264.8	77.5°	202.1	125.9	122.7	133.1	151.1	169.6	175.5	242.3	409.2	425.4
137.6	80°	117.3	93.8	90.2	98.3	114.1	131.3	169.2	297.3	269.8	266.6
61.8	82.5°	65.4	64.5	60.0	62.3	76.2	94.7	239.1	209.3	170.1	175.5
24.8	85°	30.7	37.9	32.5	31.1	42.9	111.0	159.7	119.6	79.4	77.6
5.4	87.5°	8.1	7.2	7.2	8.1	18.0	95.6	63.6	51.0	30.2	29.3
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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