

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: P945967

Luminaire Tested: **GALN-SB1D-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945967  
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-SB1D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

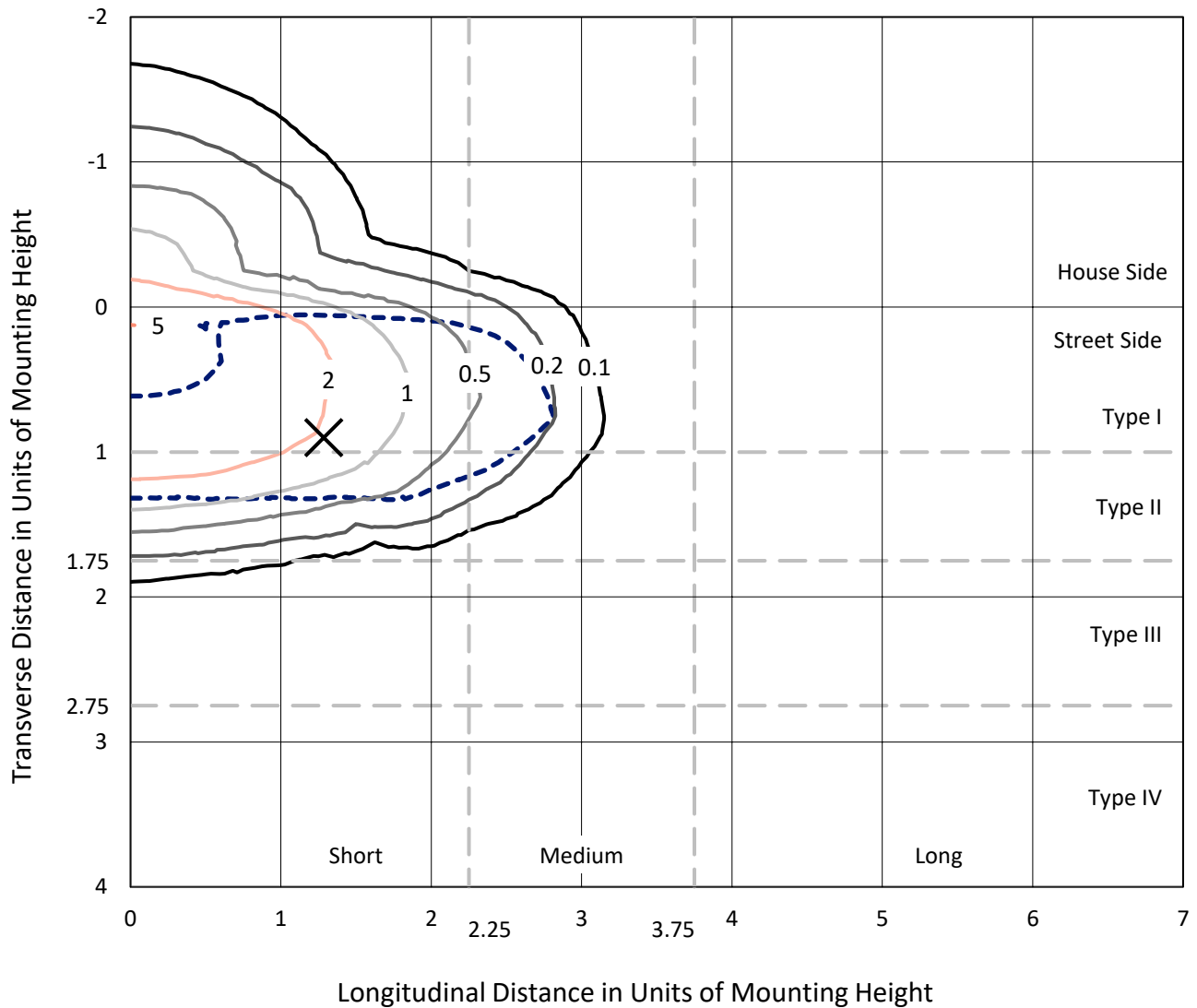
Lumens per Lamp: N/A  
Luminaire Lumens: 10353 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

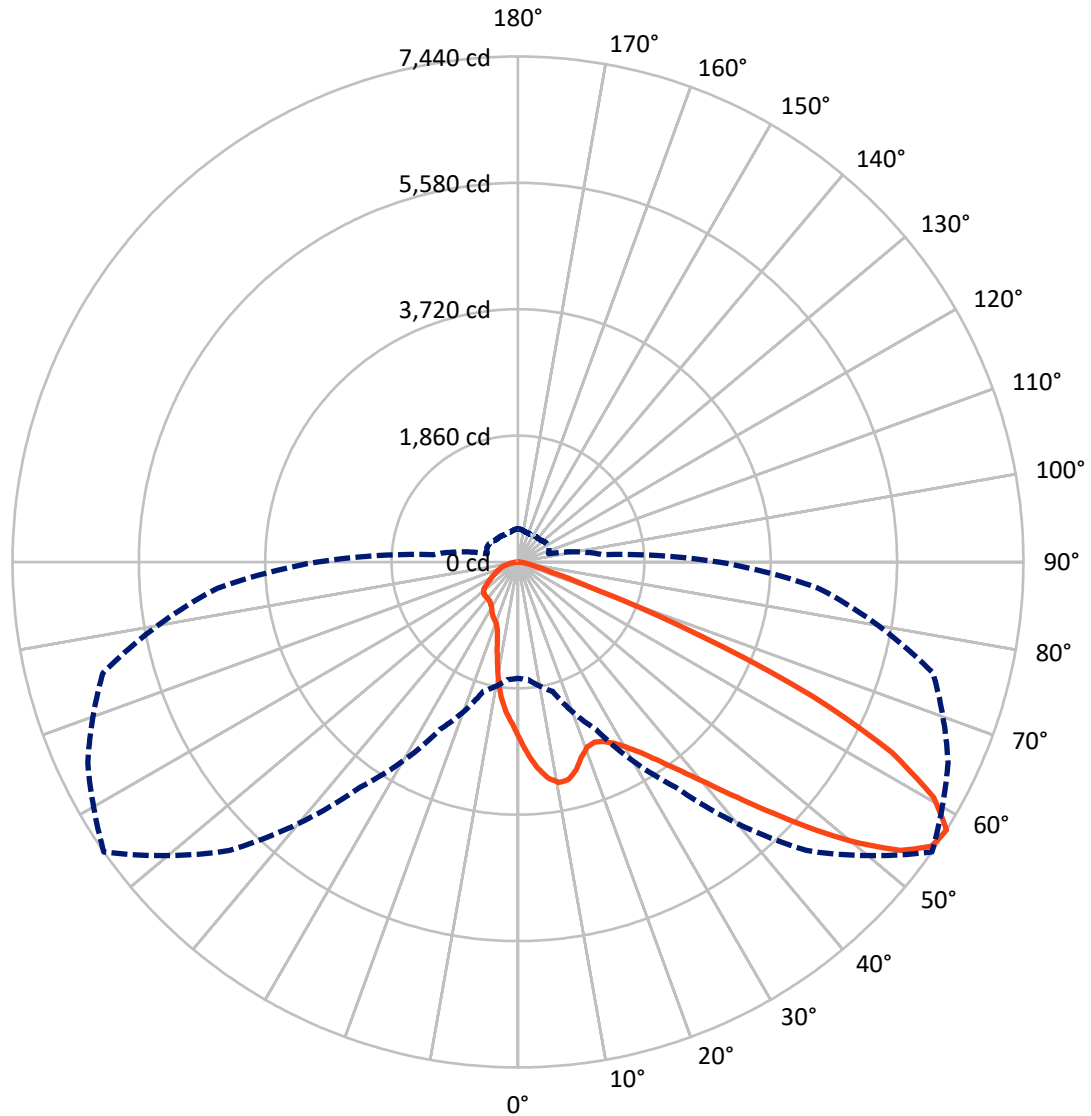
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1873.3	0.0	1873.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8479.7	0.0	8479.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10353.0	0.0	10353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.7	2.3
10°-20°	607.6	5.9
20°-30°	969.5	9.4
30°-40°	1535.0	14.8
40°-50°	2349.5	22.7
50°-60°	2516.5	24.3
60°-70°	1583.2	15.3
70°-80°	468.2	4.5
80°-90°	82.8	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°	10353.0	100.0
0°-180°	10353.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945967

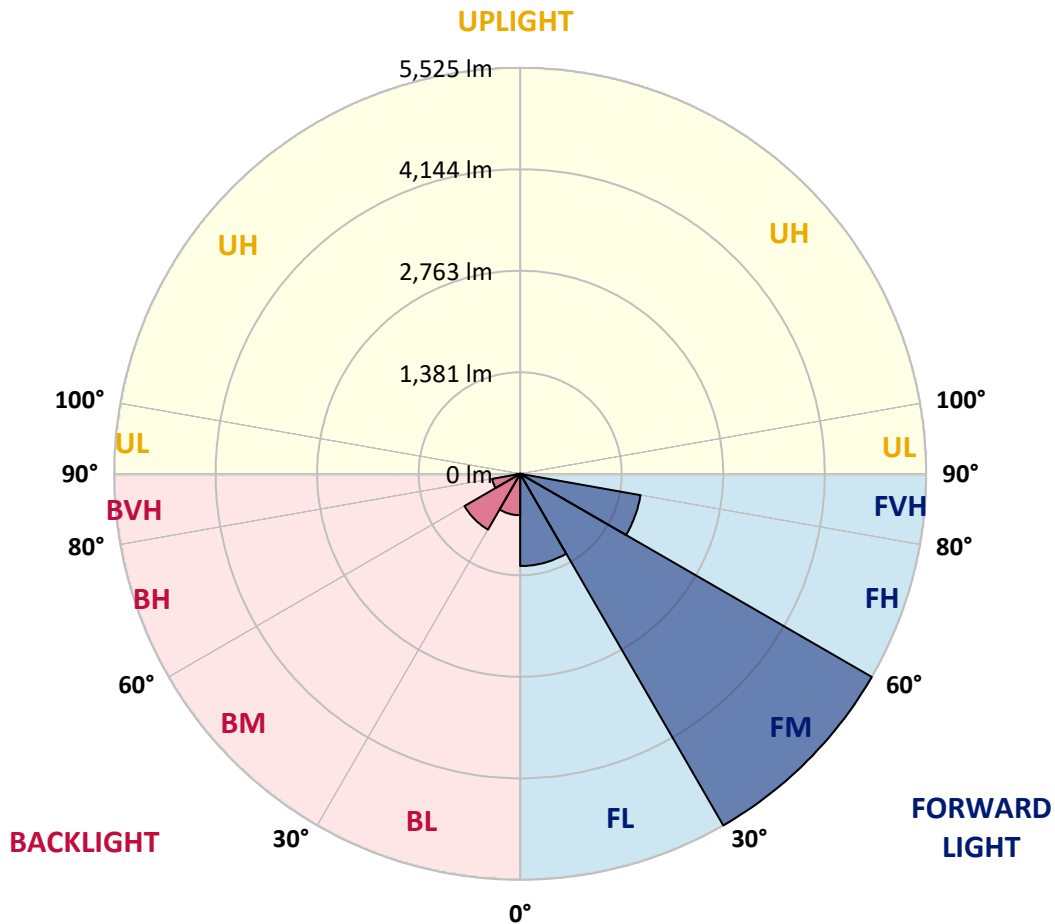
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.8	12.1			
FM (30°-60°)	5525.5	53.4			
FH (60°-80°)	1664.4	16.1			G1/1800
FVH (80°-90°)	35.0	0.3			G1/100
BL (0°-30°)	563.1	5.4	B2/1000		
BM (30°-60°)	875.6	8.5	B1/1000		
BH (60°-80°)	386.9	3.7	B1/500		G1/500
BVH (80°-90°)	47.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1
2.5°	2976.3	2974.1	2985.9	2945.8	2918.5	2881.5	2832.8	2770.7	2703.8	2633.2
5°	3244.4	3225.7	3238.0	3208.0	3178.0	3122.4	3050.1	2949.0	2825.3	2684.6
7.5°	3202.1	3189.3	3220.8	3247.6	3270.1	3263.1	3210.1	3104.2	2944.7	2740.2
10°	2861.2	2846.7	2891.2	2983.8	3119.7	3238.0	3302.2	3236.4	3066.7	2801.2
12.5°	2560.4	2553.5	2582.9	2657.8	2808.7	3035.7	3290.4	3352.0	3193.6	2873.5
15°	2432.0	2423.4	2442.1	2480.1	2576.5	2787.9	3183.4	3431.2	3318.3	2957.0
17.5°	2403.6	2394.0	2402.0	2421.8	2483.9	2645.0	3021.8	3470.3	3448.3	3050.1
20°	2456.0	2448.0	2449.1	2448.0	2491.4	2619.3	2909.4	3455.3	3561.8	3135.8
22.5°	2582.9	2569.5	2570.0	2541.7	2565.2	2664.2	2879.9	3415.1	3662.9	3210.7
25°	2789.5	2765.4	2770.2	2698.0	2691.5	2764.9	2926.0	3384.1	3763.5	3270.6
27.5°	3072.1	3044.8	3030.3	2922.7	2871.4	2907.8	3019.6	3394.8	3858.8	3322.5
30°	3425.3	3392.1	3362.7	3210.1	3117.0	3103.6	3165.2	3465.4	3971.2	3377.1
32.5°	3858.3	3819.7	3766.2	3563.9	3432.8	3362.7	3353.6	3591.2	4102.9	3446.7
35°	4373.7	4323.4	4247.4	3985.7	3819.7	3676.3	3601.9	3772.6	4283.2	3551.6
37.5°	4904.6	4847.9	4778.3	4466.8	4262.9	4051.5	3904.8	4018.8	4523.5	3694.0
40°	5394.3	5330.6	5265.9	4988.6	4769.7	4515.0	4275.7	4330.3	4817.4	3864.2
42.5°	5683.3	5636.2	5611.6	5461.7	5292.6	5034.1	4737.1	4699.6	5147.6	4060.0
45°	5670.5	5651.2	5727.2	5789.3	5749.1	5605.7	5277.6	5108.0	5478.9	4229.7
47.5°	5367.5	5380.4	5550.0	5899.0	6052.6	6127.5	5893.1	5508.8	5766.8	4356.5
50°	4543.3	4554.0	4946.9	5699.4	6130.7	6553.0	6503.8	5900.1	5990.0	4434.2
52.5°	3890.9	3897.9	4066.5	5107.4	5872.8	6767.1	7054.0	6268.8	6153.2	4455.6
55°	2930.8	2954.9	3143.8	4007.1	5201.6	6597.4	7389.0	6648.8	6256.5	4457.7
57.5°	1712.1	1738.3	1971.7	2719.9	4042.9	6006.0	7439.8	6986.0	6326.6	4440.6
60°	838.7	849.9	951.6	1429.5	2493.0	4866.6	7031.0	7149.2	6365.7	4431.5
62.5°	565.2	563.6	567.8	705.4	1228.3	3126.7	6178.9	6863.4	6344.8	4396.7
65°	486.0	480.1	464.0	495.1	636.4	1430.1	4774.0	6010.3	6185.9	4309.4
67.5°	420.1	420.7	421.2	411.6	454.4	659.9	2917.4	4734.4	5615.3	3896.3
70°	347.9	352.7	354.8	354.8	370.4	433.0	1245.4	3244.9	4429.3	3054.9
72.5°	316.8	306.7	307.7	302.4	302.4	329.7	501.5	1839.5	2790.5	1718.5
75°	258.5	264.9	266.0	262.2	249.9	251.5	297.6	771.8	1194.0	712.9
77.5°	223.2	223.2	225.3	222.6	213.0	188.4	198.6	299.2	406.2	292.2
80°	179.3	178.8	187.9	193.2	178.2	139.2	126.8	165.4	180.4	128.4
82.5°	87.2	92.6	129.0	147.2	135.4	100.6	77.6	102.8	96.3	56.7
85°	50.8	48.2	57.8	81.9	77.6	55.7	37.5	53.5	50.3	28.9
87.5°	16.1	15.0	11.8	27.8	22.5	15.5	10.2	15.5	13.9	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945967  
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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2594.1	0°	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1
2602.7	2.5°	2564.7	2501.5	2438.9	2381.7	2346.9	2324.4	2301.9	2276.8	2267.1	2252.7
2609.6	5°	2539.0	2417.0	2308.3	2214.7	2129.6	2062.7	1995.2	1940.6	1916.0	1932.6
2631.6	7.5°	2524.0	2347.4	2179.9	2008.1	1842.7	1710.5	1595.4	1514.6	1478.2	1487.3
2653.0	10°	2510.6	2268.7	2013.4	1742.1	1504.5	1340.7	1222.9	1161.4	1138.4	1143.2
2681.9	12.5°	2498.3	2180.4	1812.7	1455.8	1203.1	1095.0	1061.3	1061.8	1066.1	1069.3
2727.9	15°	2496.2	2073.9	1588.5	1205.3	1040.4	1033.5	1069.9	1092.9	1105.2	1108.9
2766.5	17.5°	2493.0	1946.5	1359.9	1034.5	1000.8	1047.9	1081.6	1096.6	1106.3	1106.8
2803.9	20°	2480.1	1784.9	1149.1	953.2	992.3	1032.9	1053.8	1065.6	1073.6	1076.3
2832.3	22.5°	2440.5	1605.1	984.8	916.8	958.0	990.7	1015.3	1028.7	1033.5	1036.7
2837.6	25°	2369.3	1403.8	871.3	882.0	910.4	951.6	971.4	974.1	972.5	977.3
2824.3	27.5°	2276.2	1188.1	800.7	834.9	871.3	906.6	917.3	915.7	912.5	917.9
2801.2	30°	2163.8	994.4	755.7	781.9	831.7	863.8	873.5	869.7	863.3	869.2
2789.5	32.5°	2045.0	836.0	718.8	745.0	799.1	830.6	840.3	836.5	831.7	836.5
2802.9	35°	1934.2	725.2	684.5	720.4	773.4	804.4	816.7	817.3	817.3	823.1
2838.2	37.5°	1832.5	660.4	656.2	704.9	755.7	783.5	801.2	802.3	779.3	780.9
2898.1	40°	1738.3	633.1	643.3	694.7	738.6	765.3	766.4	706.5	664.2	663.1
2966.6	42.5°	1661.3	627.8	647.1	693.6	726.3	727.3	651.9	605.3	593.5	594.1
3029.8	45°	1589.0	626.2	655.6	693.6	708.1	628.3	577.5	565.2	566.2	570.5
3058.1	47.5°	1508.2	619.8	657.2	684.0	655.6	558.8	543.8	538.4	536.3	537.3
3051.7	50°	1419.9	596.8	636.9	664.7	565.7	528.8	510.0	508.4	511.1	512.7
3015.9	52.5°	1326.8	559.3	602.1	629.9	524.5	502.6	481.7	485.4	497.2	500.9
2978.4	55°	1265.8	515.4	556.1	560.4	495.6	477.9	460.3	468.8	490.8	497.7
2955.9	57.5°	1249.7	468.8	503.6	498.8	458.7	456.5	445.8	453.3	481.1	491.3
2954.9	60°	1244.9	427.1	452.2	448.5	422.8	433.0	430.3	434.0	443.7	446.9
2944.1	62.5°	1207.4	393.9	406.2	400.9	390.7	408.4	414.8	406.8	414.2	418.0
2870.8	65°	1112.2	367.1	361.3	357.5	361.8	377.9	390.7	374.6	381.6	392.3
2588.2	67.5°	954.8	330.8	314.7	319.0	332.4	340.9	357.5	339.3	345.2	363.4
2084.6	70°	772.3	284.7	270.3	282.6	295.4	313.1	315.8	303.5	317.4	337.7
1272.2	72.5°	546.4	238.2	228.0	253.2	257.4	280.4	274.6	268.7	287.9	294.9
628.9	75°	378.9	192.1	186.3	205.5	221.0	240.8	236.6	243.5	284.2	287.4
314.2	77.5°	239.8	149.3	145.6	157.9	179.3	201.2	208.2	287.4	485.4	504.7
163.2	80°	139.2	111.3	107.0	116.7	135.4	155.7	200.7	352.7	320.1	316.3
73.3	82.5°	77.6	76.5	71.2	73.9	90.4	112.4	283.7	248.3	201.8	208.2
29.4	85°	36.4	45.0	38.5	36.9	50.8	131.7	189.5	141.8	94.2	92.1
6.4	87.5°	9.6	8.6	8.6	9.6	21.4	113.5	75.5	60.5	35.9	34.8
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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