

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: P947269

Luminaire Tested: **GALN-SB2C-935-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947269  
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-SB2C-935-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

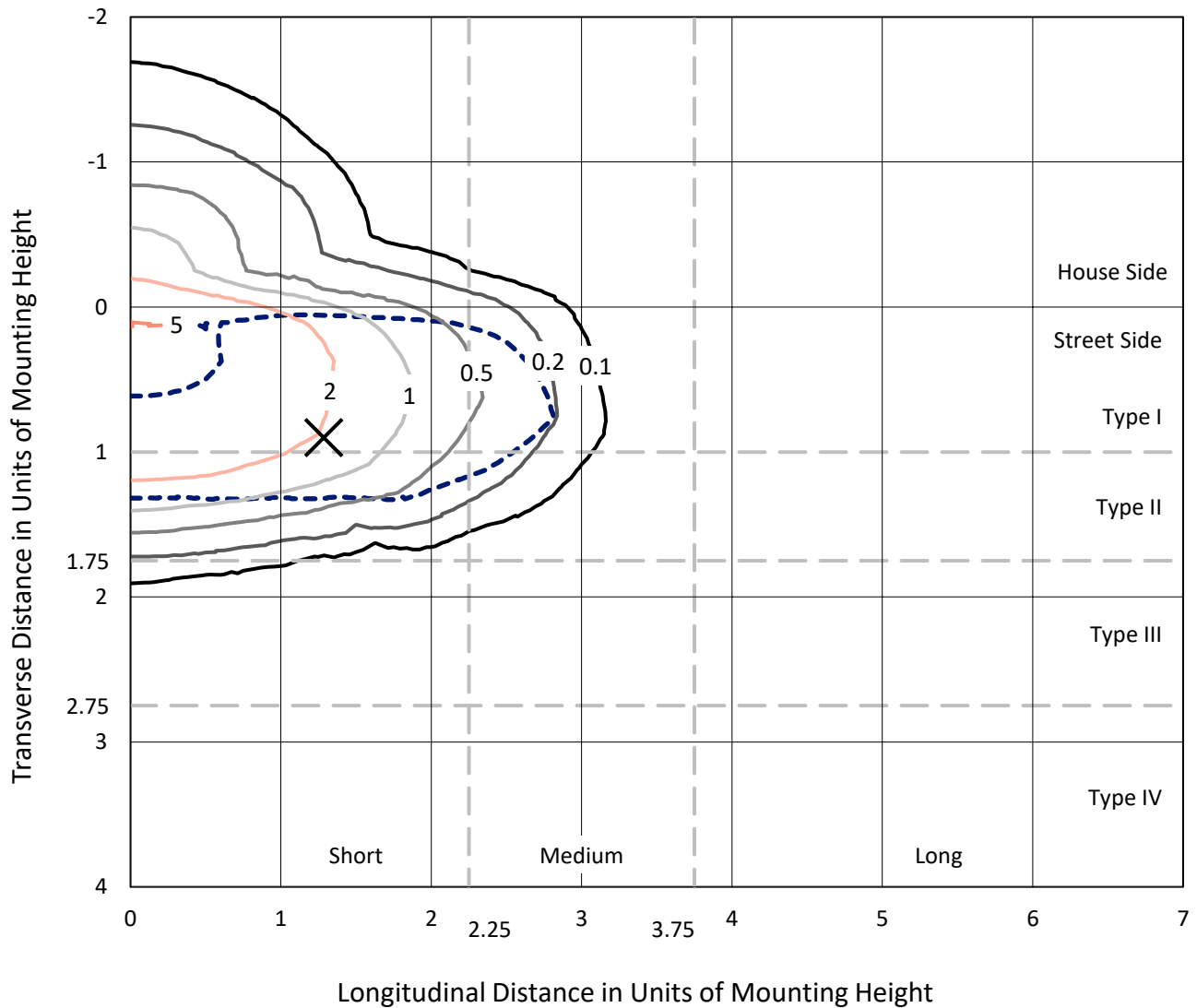
Lumens per Lamp: N/A  
Luminaire Lumens: 10596 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

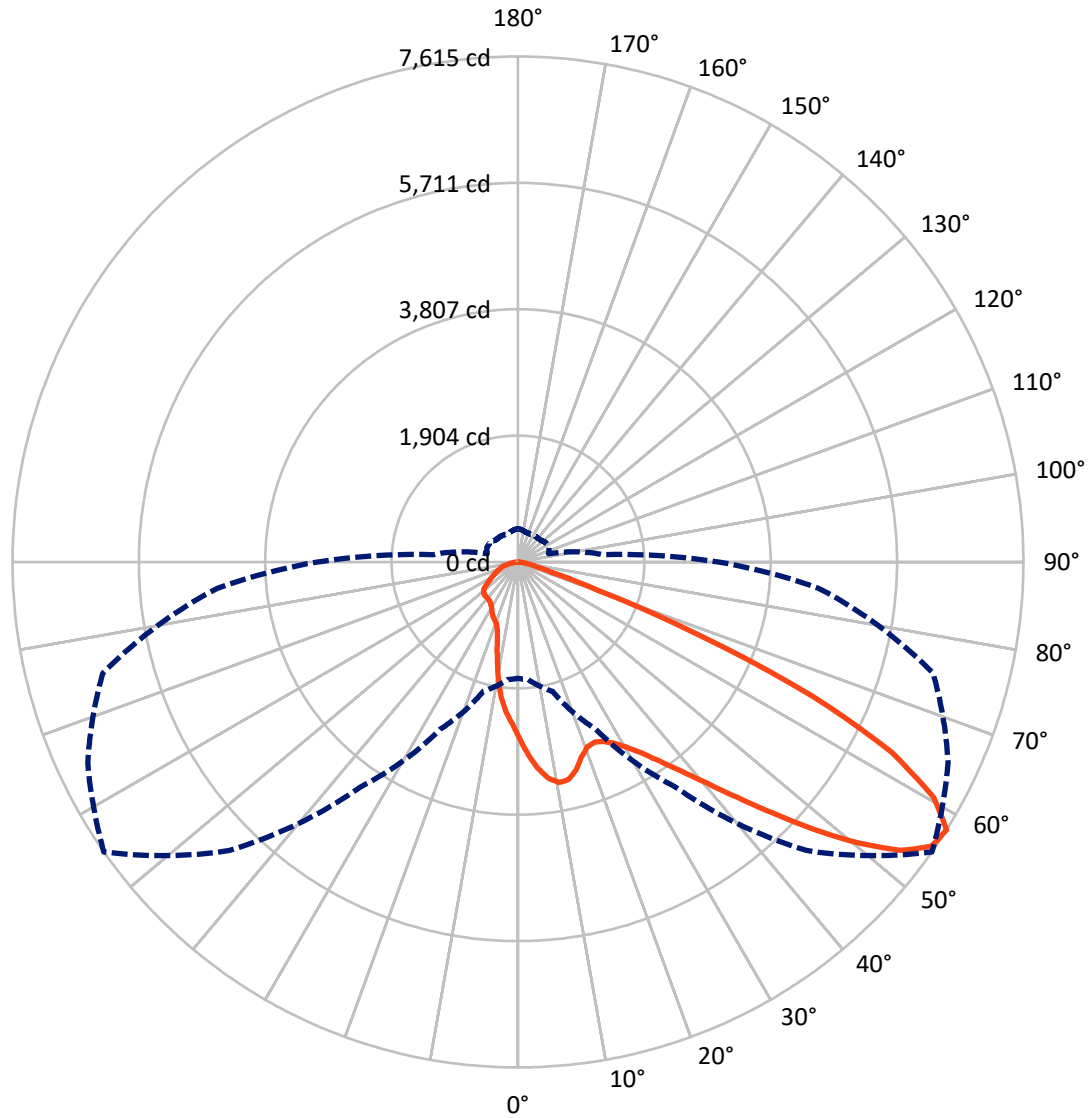
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1917.3	0.0	1917.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8678.7	0.0	8678.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10596.0	0.0	10596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	2.3
10°-20°	621.8	5.9
20°-30°	992.3	9.4
30°-40°	1571.0	14.8
40°-50°	2404.6	22.7
50°-60°	2575.6	24.3
60°-70°	1620.3	15.3
70°-80°	479.2	4.5
80°-90°	84.7	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°	10596.0	100.0
0°-180°	10596.0	100.0

**Coefficient of Utilization**



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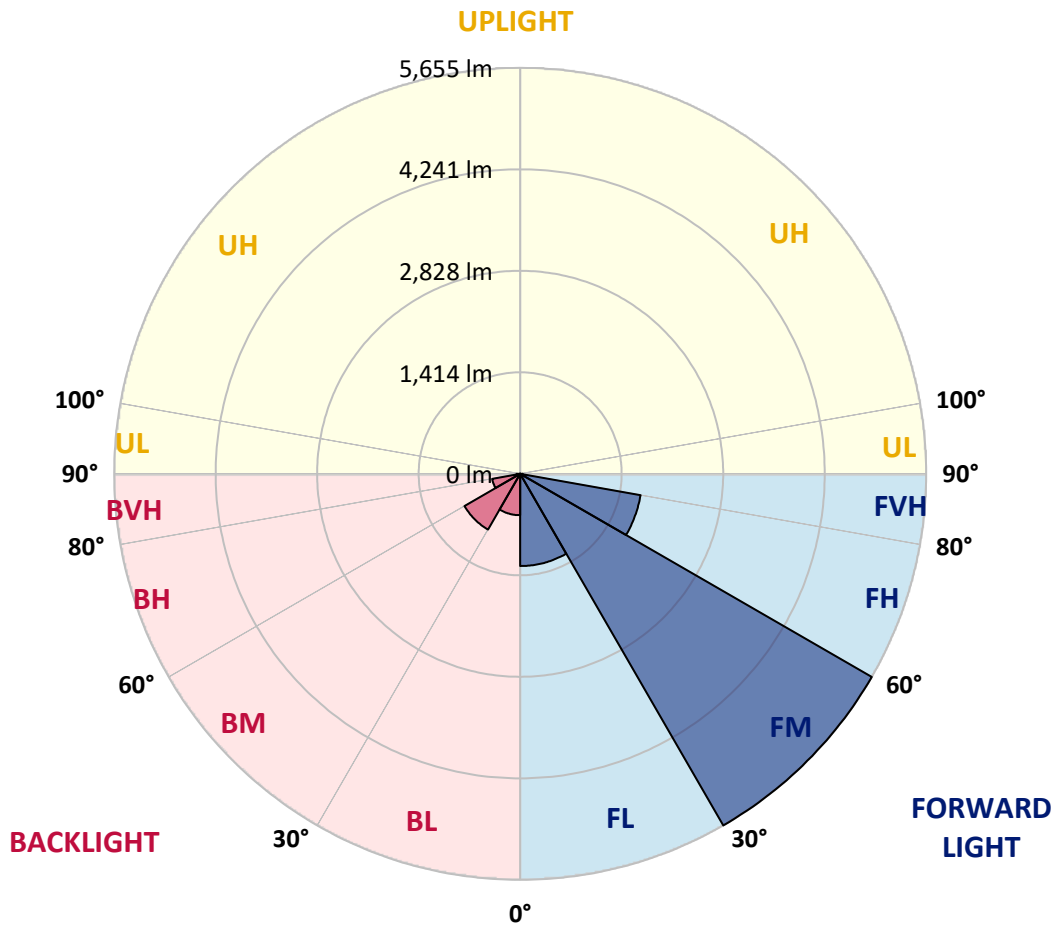
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.2	12.1			
FM (30°-60°)	5655.2	53.4			
FH (60°-80°)	1703.5	16.1			G1/1800
FVH (80°-90°)	35.8	0.3			G1/100
BL (0°-30°)	576.3	5.4	B2/1000		
BM (30°-60°)	896.1	8.5	B1/1000		
BH (60°-80°)	396.0	3.7	B1/500		G1/500
BVH (80°-90°)	48.9	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°	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0
2.5°	3046.1	3043.9	3056.0	3014.9	2987.0	2949.2	2899.3	2835.8	2767.3	2695.0
5°	3320.5	3301.4	3314.0	3283.3	3252.6	3195.7	3121.7	3018.2	2891.6	2747.6
7.5°	3277.3	3264.1	3296.4	3323.8	3346.8	3339.7	3285.5	3177.0	3013.8	2804.6
10°	2928.3	2913.6	2959.0	3053.8	3192.9	3314.0	3379.7	3312.3	3138.7	2867.0
12.5°	2620.5	2613.4	2643.5	2720.2	2874.7	3106.9	3367.7	3430.6	3268.5	2940.9
15°	2489.0	2480.3	2499.4	2538.3	2636.9	2853.3	3258.1	3511.7	3396.1	3026.4
17.5°	2460.0	2450.1	2458.4	2478.6	2542.2	2707.1	3092.7	3551.7	3529.2	3121.7
20°	2513.7	2505.5	2506.6	2505.5	2549.8	2680.8	2977.6	3536.4	3645.4	3209.4
22.5°	2643.5	2629.8	2630.4	2601.3	2625.4	2726.8	2947.5	3495.3	3748.9	3286.0
25°	2854.9	2830.3	2835.2	2761.3	2754.7	2829.8	2994.6	3463.5	3851.9	3347.4
27.5°	3144.2	3116.2	3101.4	2991.3	2938.8	2976.0	3090.5	3474.5	3949.4	3400.5
30°	3505.7	3471.7	3441.6	3285.5	3190.2	3176.5	3239.5	3546.8	4064.4	3456.4
32.5°	3948.8	3909.4	3854.6	3647.6	3513.4	3441.6	3432.3	3675.5	4199.2	3527.6
35°	4476.3	4424.8	4347.1	4079.2	3909.4	3762.6	3686.5	3861.2	4383.8	3635.0
37.5°	5019.7	4961.6	4890.4	4571.6	4362.9	4146.6	3996.5	4113.2	4629.7	3780.7
40°	5520.9	5455.7	5389.5	5105.7	4881.7	4620.9	4376.1	4432.0	4930.4	3954.9
42.5°	5816.7	5768.5	5743.3	5589.9	5416.8	5152.3	4848.3	4809.9	5268.4	4155.3
45°	5803.6	5783.8	5861.6	5925.2	5884.1	5737.3	5401.5	5227.9	5607.5	4329.0
47.5°	5493.5	5506.7	5680.3	6037.5	6194.7	6271.4	6031.4	5638.1	5902.2	4458.8
50°	4650.0	4660.9	5063.0	5833.1	6274.6	6706.8	6656.4	6038.6	6130.6	4538.2
52.5°	3982.2	3989.4	4161.9	5227.3	6010.6	6925.9	7219.5	6416.0	6297.6	4560.1
55°	2999.6	3024.2	3217.6	4101.1	5323.7	6752.3	7562.4	6804.9	6403.4	4562.3
57.5°	1752.3	1779.1	2018.0	2783.7	4137.8	6147.0	7614.5	7150.0	6475.1	4544.8
60°	858.3	869.8	973.9	1463.1	2551.5	4980.8	7196.0	7317.0	6515.1	4535.5
62.5°	578.4	576.8	581.2	722.0	1257.1	3200.0	6323.9	7024.5	6493.7	4499.9
65°	497.4	491.3	474.9	506.7	651.3	1463.6	4886.1	6151.4	6331.1	4410.6
67.5°	430.0	430.5	431.1	421.2	465.1	675.4	2985.9	4845.5	5747.1	3987.7
70°	356.0	361.0	363.2	363.2	379.1	443.1	1274.6	3321.1	4533.3	3126.6
72.5°	324.3	313.9	315.0	309.5	309.5	337.4	513.3	1882.7	2856.0	1758.9
75°	264.6	271.1	272.2	268.4	255.8	257.4	304.6	789.9	1222.1	729.6
77.5°	228.4	228.4	230.6	227.9	218.0	192.8	203.2	306.2	415.8	299.1
80°	183.5	183.0	192.3	197.7	182.4	142.4	129.8	169.3	184.6	131.5
82.5°	89.3	94.8	132.0	150.6	138.6	103.0	79.4	105.2	98.6	58.1
85°	52.0	49.3	59.2	83.8	79.4	57.0	38.3	54.8	51.5	29.6
87.5°	16.4	15.3	12.1	28.5	23.0	15.9	10.4	15.9	14.2	6.6
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°
2655.0	0°	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0	2655.0
2663.8	2.5°	2624.9	2560.3	2496.2	2437.6	2401.9	2378.9	2355.9	2330.2	2320.3	2305.5
2670.9	5°	2598.6	2473.7	2362.5	2266.6	2179.6	2111.1	2042.1	1986.2	1961.0	1978.0
2693.4	7.5°	2583.3	2402.5	2231.0	2055.2	1886.0	1750.7	1632.9	1550.2	1512.9	1522.2
2715.3	10°	2569.6	2322.0	2060.7	1783.0	1539.8	1372.1	1251.6	1188.6	1165.1	1170.0
2744.8	12.5°	2557.0	2231.6	1855.3	1489.9	1231.4	1120.7	1086.2	1086.8	1091.1	1094.4
2792.0	15°	2554.8	2122.6	1625.8	1233.6	1064.9	1057.7	1095.0	1118.5	1131.1	1135.0
2831.4	17.5°	2551.5	1992.2	1391.9	1058.8	1024.3	1072.5	1107.0	1122.4	1132.2	1132.8
2869.7	20°	2538.3	1826.8	1176.0	975.6	1015.6	1057.2	1078.5	1090.6	1098.8	1101.6
2898.8	22.5°	2497.8	1642.7	1007.9	938.3	980.5	1013.9	1039.1	1052.8	1057.7	1061.0
2904.2	25°	2425.0	1436.8	891.8	902.7	931.7	973.9	994.2	996.9	995.3	1000.2
2890.6	27.5°	2329.6	1216.0	819.5	854.5	891.8	927.9	938.9	937.2	933.9	939.4
2867.0	30°	2214.6	1017.7	773.4	800.3	851.2	884.1	894.0	890.1	883.5	889.6
2854.9	32.5°	2093.0	855.6	735.6	762.5	817.8	850.1	860.0	856.2	851.2	856.2
2868.6	35°	1979.6	742.2	700.6	737.3	791.5	823.3	835.9	836.4	836.4	842.5
2904.8	37.5°	1875.5	675.9	671.6	721.4	773.4	801.9	820.0	821.1	797.5	799.2
2966.1	40°	1779.1	648.0	658.4	711.0	755.9	783.3	784.4	723.0	679.8	678.7
3036.3	42.5°	1700.3	642.5	662.2	709.9	743.3	744.4	667.2	619.5	607.5	608.0
3100.9	45°	1626.3	640.9	671.0	709.9	724.7	643.1	591.0	578.4	579.5	583.9
3129.9	47.5°	1543.6	634.3	672.7	700.0	671.0	571.9	556.5	551.1	548.9	550.0
3123.4	50°	1453.2	610.8	651.8	680.3	579.0	541.2	522.0	520.4	523.1	524.8
3086.7	52.5°	1357.9	572.4	616.2	644.7	536.8	514.4	493.0	496.8	508.9	512.7
3048.3	55°	1295.5	527.5	569.1	573.5	507.2	489.2	471.1	479.8	502.3	509.4
3025.3	57.5°	1279.0	479.8	515.4	510.5	469.4	467.2	456.3	464.0	492.4	502.8
3024.2	60°	1274.1	437.1	462.9	459.0	432.7	443.1	440.4	444.2	454.1	457.4
3013.3	62.5°	1235.8	403.2	415.8	410.3	399.9	417.9	424.5	416.3	424.0	427.8
2938.2	65°	1138.3	375.8	369.7	365.9	370.3	386.7	399.9	383.4	390.6	401.5
2649.0	67.5°	977.2	338.5	322.1	326.5	340.2	348.9	365.9	347.3	353.3	371.9
2133.5	70°	790.4	291.4	276.6	289.2	302.4	320.4	323.2	310.6	324.8	345.6
1302.0	72.5°	559.3	243.8	233.3	259.1	263.5	287.0	281.0	275.0	294.7	301.8
643.6	75°	387.8	196.6	190.6	210.3	226.2	246.5	242.1	249.2	290.9	294.1
321.5	77.5°	245.4	152.8	149.0	161.6	183.5	206.0	213.1	294.1	496.8	516.5
167.1	80°	142.4	113.9	109.6	119.4	138.6	159.4	205.4	361.0	327.6	323.7
75.0	82.5°	79.4	78.3	72.9	75.6	92.6	115.0	290.3	254.2	206.5	213.1
30.1	85°	37.2	46.0	39.4	37.8	52.0	134.8	193.9	145.2	96.4	94.2
6.6	87.5°	9.9	8.8	8.8	9.9	21.9	116.1	77.2	61.9	36.7	35.6
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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