

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: P948004

Luminaire Tested: **GALN-SB3A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948004
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-SB3A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 9919 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

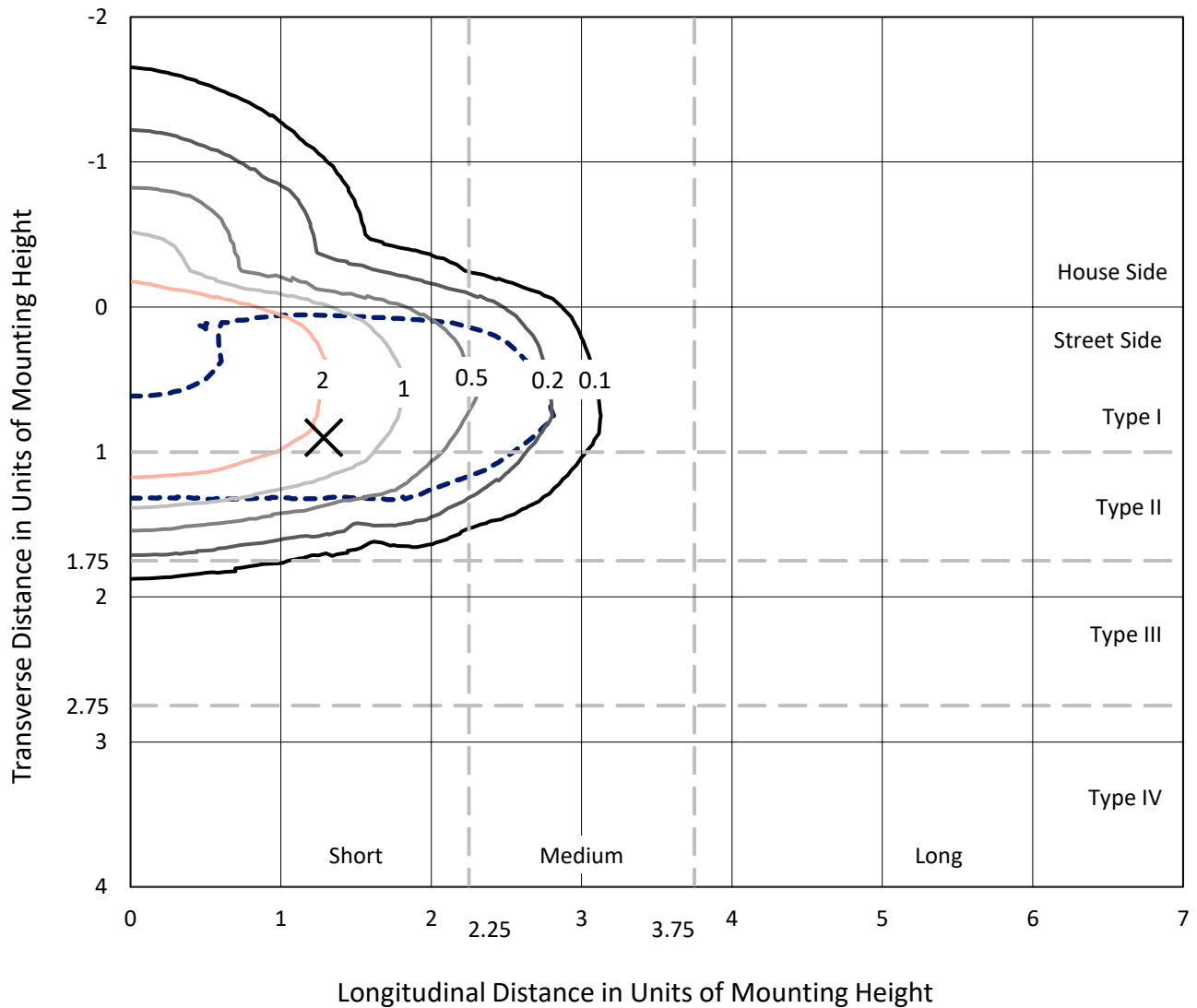
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

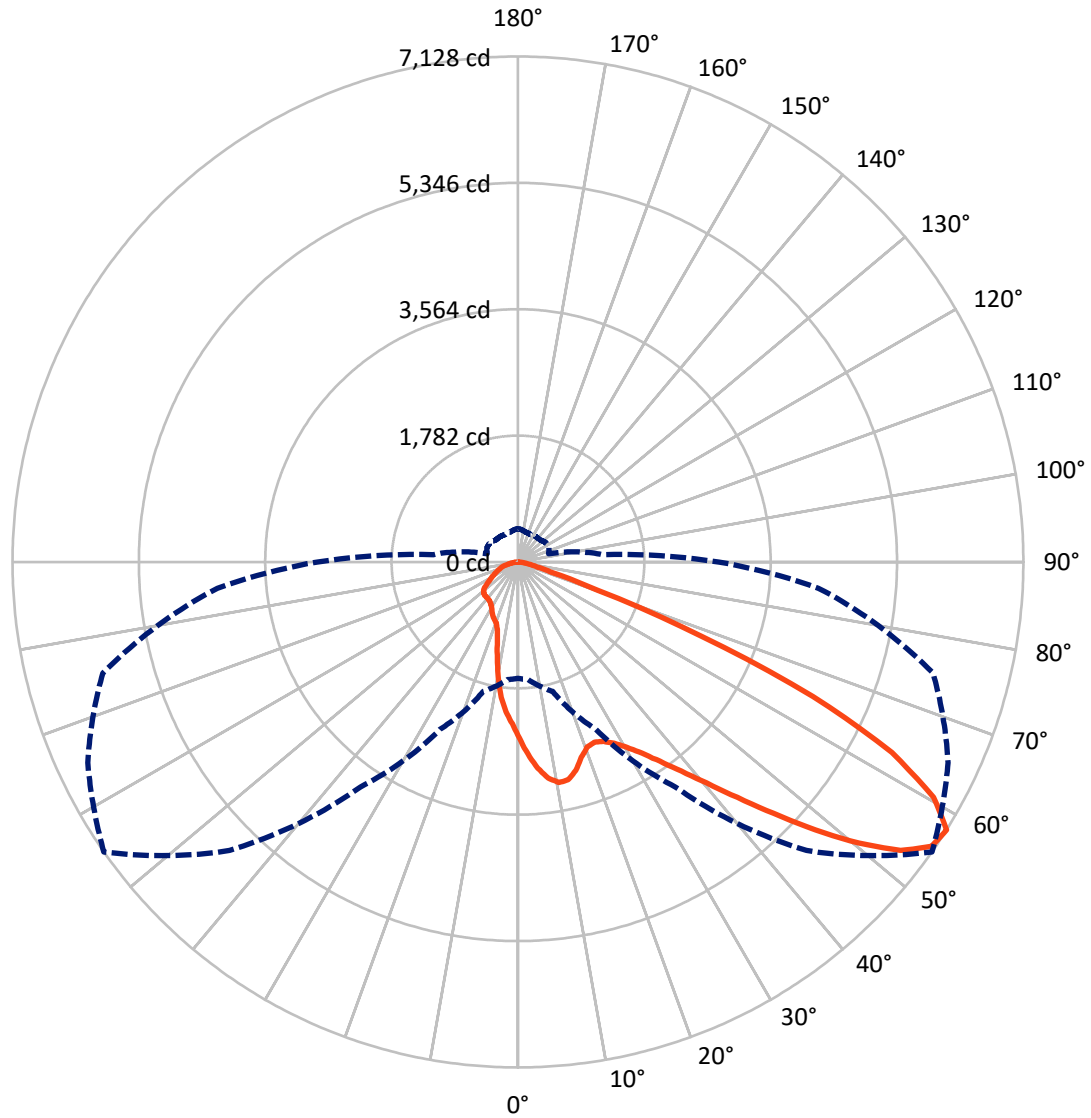
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	1794.8	0.0	1794.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8124.2	0.0	8124.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	9919.0	0.0	9919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	2.3
10°-20°	582.1	5.9
20°-30°	928.9	9.4
30°-40°	1470.7	14.8
40°-50°	2251.0	22.7
50°-60°	2411.0	24.3
60°-70°	1516.8	15.3
70°-80°	448.5	4.5
80°-90°	79.3	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°	9919.0	100.0
0°-180°	9919.0	100.0

Coefficient of Utilization



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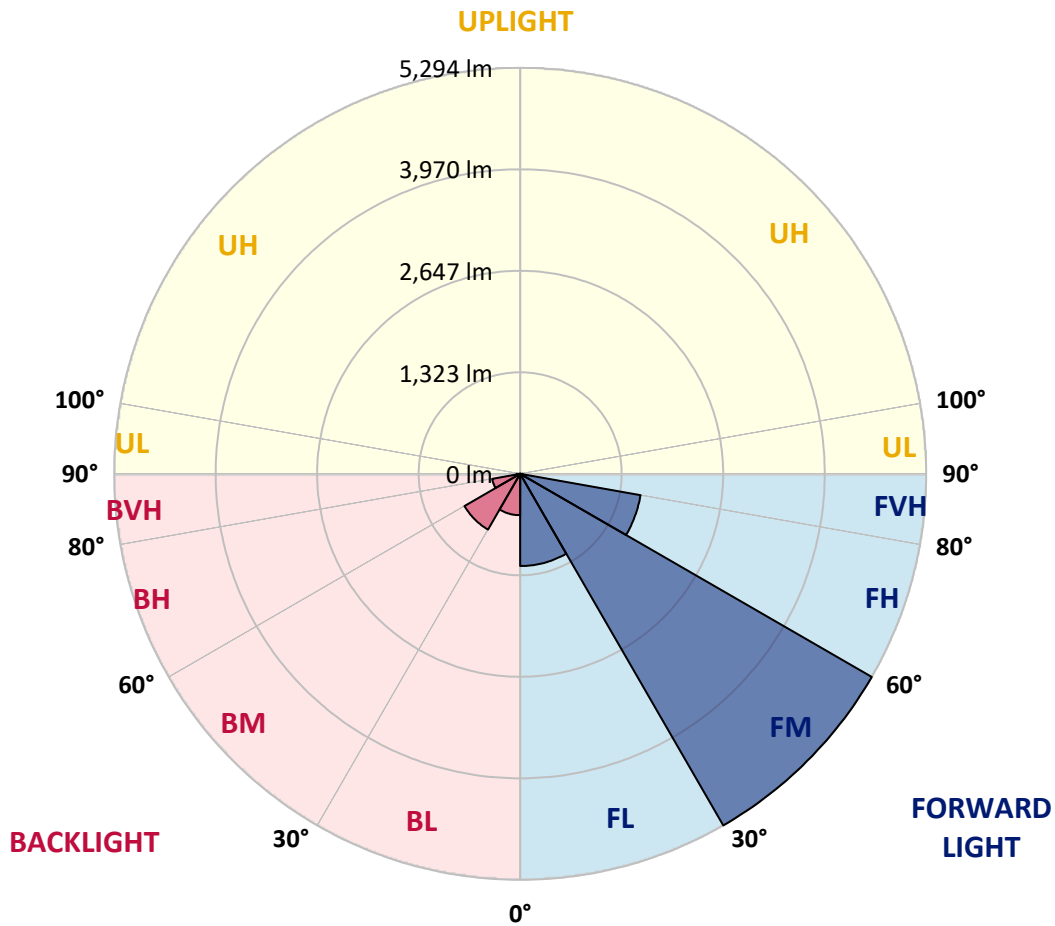
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.2	12.1			
FM (30°-60°)	5293.8	53.4			
FH (60°-80°)	1594.7	16.1			G1/1800
FVH (80°-90°)	33.5	0.3			G1/100
BL (0°-30°)	539.5	5.4	B2/1000		
BM (30°-60°)	838.9	8.5	B1/1000		
BH (60°-80°)	370.7	3.7	B1/500		G1/500
BVH (80°-90°)	45.8	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°	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4
2.5°	2851.5	2849.4	2860.7	2822.3	2796.1	2760.7	2714.1	2654.6	2590.5	2522.8
5°	3108.4	3090.4	3102.2	3073.5	3044.8	2991.5	2922.3	2825.3	2706.9	2572.0
7.5°	3067.9	3055.6	3085.8	3111.5	3133.0	3126.3	3075.6	2974.0	2821.2	2625.4
10°	2741.2	2727.4	2770.0	2858.7	2988.9	3102.2	3163.8	3100.7	2938.2	2683.8
12.5°	2453.1	2446.4	2474.6	2546.4	2691.0	2908.4	3152.5	3211.5	3059.7	2753.0
15°	2330.0	2321.8	2339.8	2376.2	2468.5	2671.0	3049.9	3287.3	3179.2	2833.0
17.5°	2302.8	2293.6	2301.3	2320.3	2379.7	2534.1	2895.1	3324.8	3303.8	2922.3
20°	2353.1	2345.4	2346.4	2345.4	2386.9	2509.5	2787.4	3310.4	3412.5	3004.3
22.5°	2474.6	2461.8	2462.3	2435.1	2457.7	2552.6	2759.2	3272.0	3509.4	3076.1
25°	2672.5	2649.5	2654.1	2584.9	2578.7	2649.0	2803.3	3242.2	3605.8	3133.5
27.5°	2943.3	2917.1	2903.3	2800.2	2751.0	2785.9	2893.0	3252.5	3697.0	3183.3
30°	3281.7	3249.9	3221.7	3075.6	2986.4	2973.5	3032.5	3320.2	3804.7	3235.6
32.5°	3696.5	3659.6	3608.3	3414.5	3288.9	3221.7	3213.0	3440.7	3930.9	3302.2
35°	4190.3	4142.1	4069.3	3818.6	3659.6	3522.2	3450.9	3614.5	4103.7	3402.7
37.5°	4699.0	4644.6	4578.0	4279.5	4084.2	3881.6	3741.1	3850.4	4333.9	3539.1
40°	5168.2	5107.2	5045.1	4779.5	4569.8	4325.7	4096.5	4148.8	4615.4	3702.2
42.5°	5445.1	5399.9	5376.4	5232.8	5070.7	4823.1	4538.5	4502.6	4931.8	3889.8
45°	5432.8	5414.3	5487.1	5546.6	5508.1	5370.7	5056.4	4893.8	5249.2	4052.4
47.5°	5142.5	5154.8	5317.4	5651.7	5798.9	5870.7	5646.1	5277.9	5525.1	4173.9
50°	4352.9	4363.1	4739.5	5460.5	5873.7	6278.3	6231.1	5652.7	5738.9	4248.3
52.5°	3727.8	3734.5	3896.0	4893.3	5626.6	6483.4	6758.3	6006.0	5895.3	4268.8
55°	2807.9	2831.0	3012.0	3839.1	4983.6	6320.9	7079.3	6370.1	5994.2	4270.8
57.5°	1640.3	1665.5	1889.0	2605.9	3873.4	5754.3	7128.0	6693.1	6061.4	4254.4
60°	803.5	814.3	911.7	1369.6	2388.5	4662.6	6736.2	6849.5	6098.8	4245.7
62.5°	541.5	539.9	544.0	675.8	1176.8	2995.6	5919.9	6575.7	6078.8	4212.4
65°	465.6	460.0	444.6	474.3	609.7	1370.1	4573.9	5758.4	5926.6	4128.8
67.5°	402.5	403.0	403.5	394.3	435.3	632.2	2795.1	4535.9	5379.9	3732.9
70°	333.3	337.9	340.0	340.0	354.8	414.8	1193.2	3108.9	4243.7	2926.9
72.5°	303.6	293.8	294.8	289.7	289.7	315.9	480.5	1762.4	2673.6	1646.5
75°	247.7	253.8	254.8	251.3	239.5	241.0	285.1	739.4	1144.0	683.0
77.5°	213.8	213.8	215.9	213.3	204.1	180.5	190.2	286.6	389.2	280.0
80°	171.8	171.3	180.0	185.1	170.8	133.3	121.5	158.4	172.8	123.1
82.5°	83.6	88.7	123.6	141.0	129.7	96.4	74.4	98.5	92.3	54.4
85°	48.7	46.1	55.4	78.5	74.4	53.3	35.9	51.3	48.2	27.7
87.5°	15.4	14.4	11.3	26.7	21.5	14.9	9.7	14.9	13.3	6.2
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°
2485.4	0°	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4	2485.4
2493.6	2.5°	2457.2	2396.7	2336.7	2281.8	2248.5	2226.9	2205.4	2181.3	2172.1	2158.2
2500.2	5°	2432.6	2315.7	2211.6	2121.8	2040.3	1976.2	1911.6	1859.3	1835.7	1851.6
2521.3	7.5°	2418.2	2249.0	2088.5	1923.9	1765.5	1638.8	1528.6	1451.1	1416.3	1425.0
2541.8	10°	2405.4	2173.6	1929.0	1669.1	1441.4	1284.5	1171.7	1112.7	1090.7	1095.3
2569.5	12.5°	2393.6	2089.0	1736.7	1394.7	1152.7	1049.1	1016.8	1017.3	1021.4	1024.5
2613.6	15°	2391.5	1987.0	1521.9	1154.8	996.8	990.2	1025.0	1047.1	1058.9	1062.5
2650.5	17.5°	2388.5	1864.9	1302.9	991.2	958.9	1004.0	1036.3	1050.7	1059.9	1060.4
2686.4	20°	2376.2	1710.1	1100.9	913.2	950.7	989.6	1009.6	1020.9	1028.6	1031.2
2713.6	22.5°	2338.2	1537.8	943.5	878.4	917.9	949.1	972.7	985.5	990.2	993.2
2718.7	25°	2270.0	1345.0	834.8	845.0	872.2	911.7	930.7	933.2	931.7	936.3
2705.9	27.5°	2180.8	1138.3	767.1	799.9	834.8	868.6	878.9	877.3	874.3	879.4
2683.8	30°	2073.1	952.7	724.0	749.2	796.8	827.6	836.8	833.2	827.1	832.7
2672.5	32.5°	1959.3	800.9	688.6	713.8	765.6	795.8	805.0	801.5	796.8	801.5
2685.4	35°	1853.1	694.8	655.8	690.2	740.9	770.7	782.5	783.0	783.0	788.6
2719.2	37.5°	1755.7	632.8	628.7	675.3	724.0	750.7	767.6	768.6	746.6	748.1
2776.6	40°	1665.5	606.6	616.3	665.6	707.6	733.3	734.3	676.9	636.3	635.3
2842.3	42.5°	1591.6	601.5	619.9	664.5	695.8	696.8	624.5	579.9	568.7	569.2
2902.8	45°	1522.4	599.9	628.1	664.5	678.4	602.0	553.3	541.5	542.5	546.6
2929.9	47.5°	1445.0	593.8	629.7	655.3	628.1	535.3	521.0	515.8	513.8	514.8
2923.8	50°	1360.4	571.7	610.2	636.9	542.0	506.6	488.7	487.1	489.7	491.2
2889.4	52.5°	1271.1	535.8	576.9	603.5	502.5	481.5	461.5	465.1	476.4	479.9
2853.5	55°	1212.7	493.8	532.8	536.9	474.8	457.9	441.0	449.2	470.2	476.9
2832.0	57.5°	1197.3	449.2	482.5	477.9	439.4	437.4	427.1	434.3	461.0	470.7
2831.0	60°	1192.7	409.2	433.3	429.7	405.1	414.8	412.3	415.9	425.1	428.2
2820.7	62.5°	1156.8	377.4	389.2	384.1	374.3	391.2	397.4	389.7	396.9	400.5
2750.5	65°	1065.5	351.8	346.1	342.5	346.6	362.0	374.3	358.9	365.6	375.9
2479.7	67.5°	914.8	316.9	301.5	305.6	318.4	326.6	342.5	325.1	330.7	348.2
1997.2	70°	739.9	272.8	258.9	270.7	283.0	300.0	302.5	290.7	304.1	323.6
1218.8	72.5°	523.5	228.2	218.4	242.5	246.6	268.7	263.0	257.4	275.9	282.5
602.5	75°	363.0	184.1	178.4	196.9	211.8	230.7	226.6	233.3	272.3	275.4
301.0	77.5°	229.7	143.1	139.5	151.3	171.8	192.8	199.5	275.4	465.1	483.5
156.4	80°	133.3	106.7	102.6	111.8	129.7	149.2	192.3	337.9	306.6	303.0
70.2	82.5°	74.4	73.3	68.2	70.8	86.7	107.7	271.8	237.9	193.3	199.5
28.2	85°	34.9	43.1	36.9	35.4	48.7	126.1	181.5	135.9	90.2	88.2
6.2	87.5°	9.2	8.2	8.2	9.2	20.5	108.7	72.3	57.9	34.4	33.3
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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