

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: P946765

Luminaire Tested: **GALN-SB2B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946765
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-SB2B-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9959 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

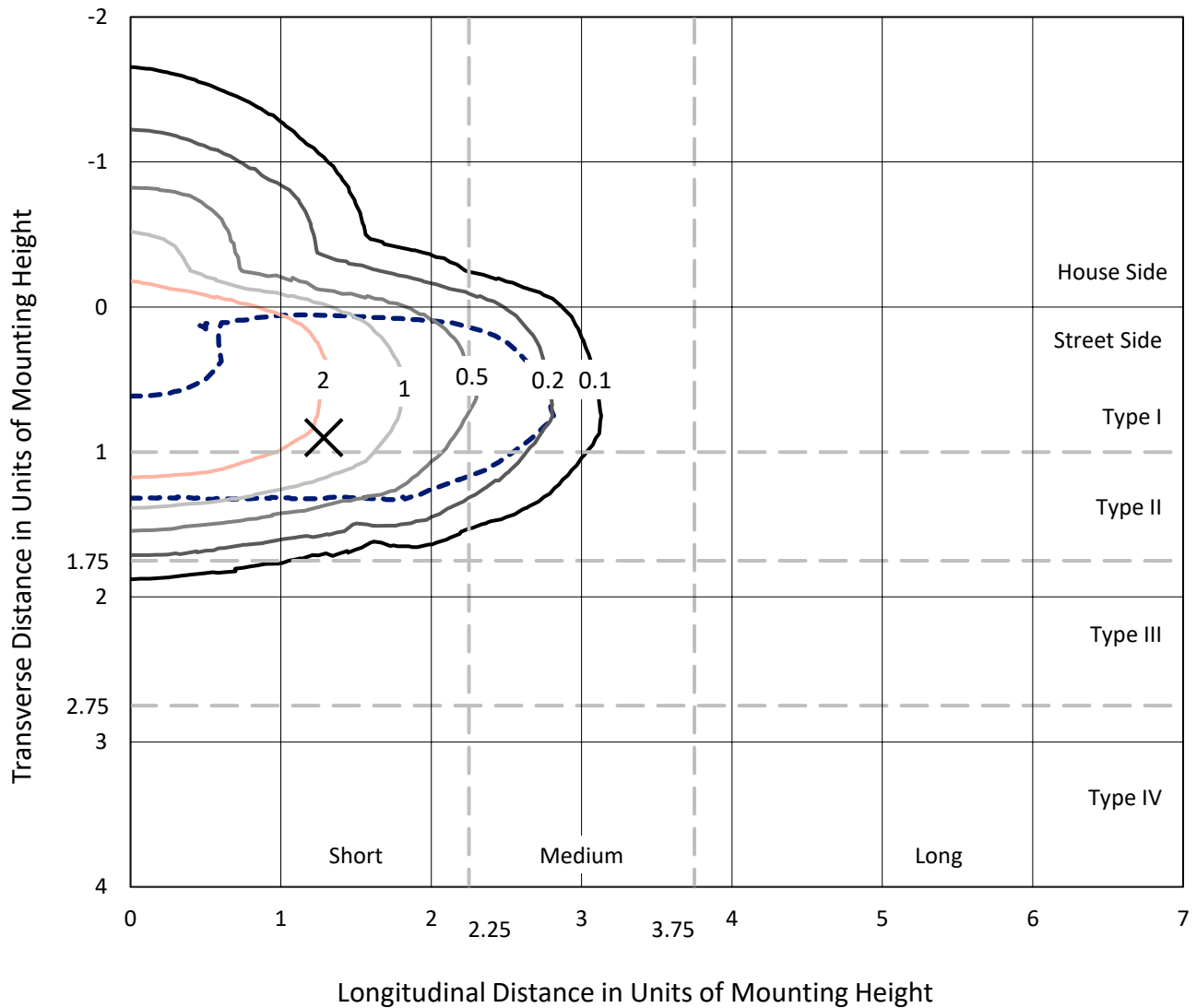
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

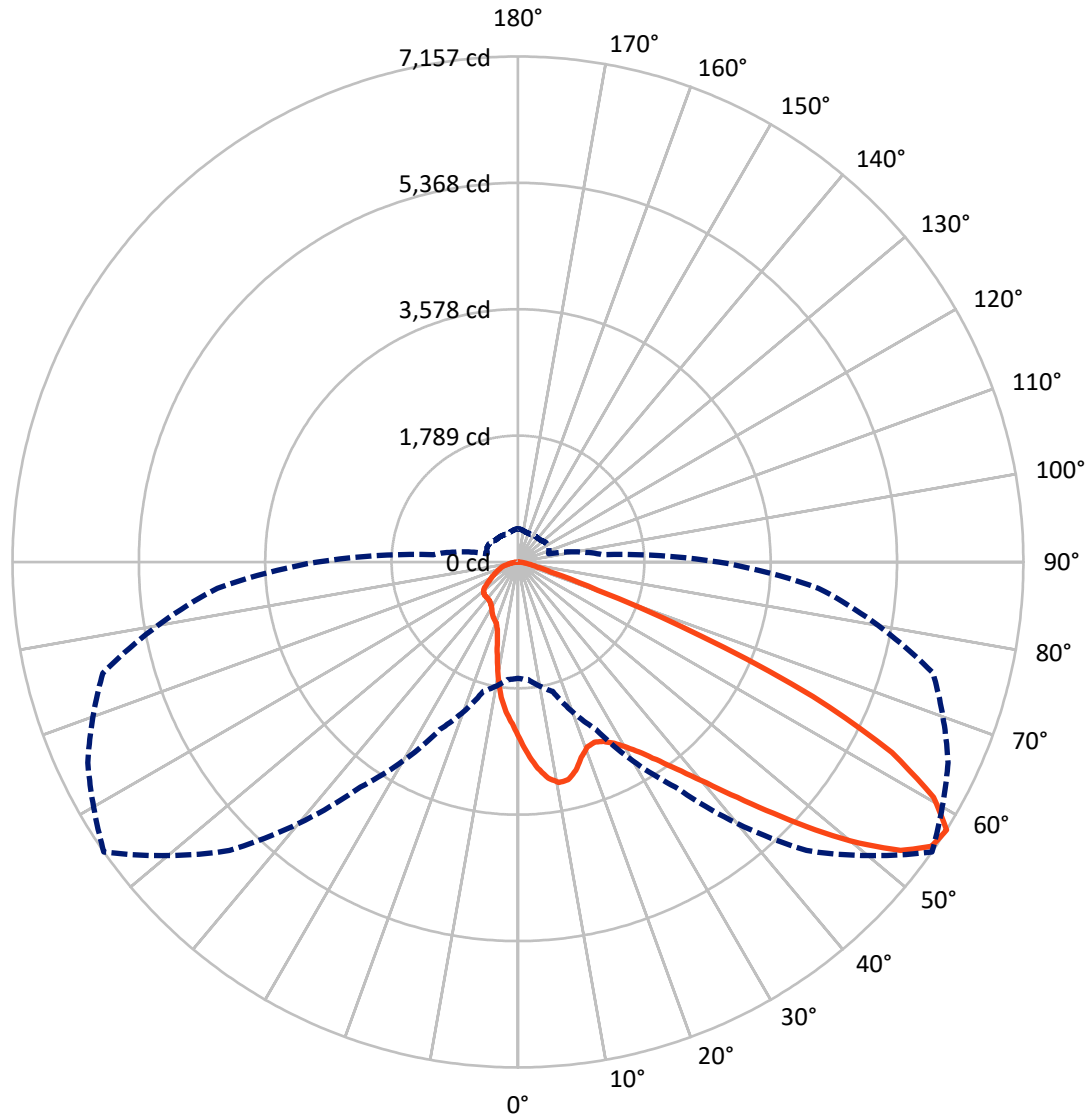
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1802.0	0.0	1802.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8157.0	0.0	8157.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	9959.0	0.0	9959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	2.3
10°-20°	584.5	5.9
20°-30°	932.6	9.4
30°-40°	1476.6	14.8
40°-50°	2260.1	22.7
50°-60°	2420.8	24.3
60°-70°	1522.9	15.3
70°-80°	450.4	4.5
80°-90°	79.6	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°	9959.0	100.0
0°-180°	9959.0	100.0

Coefficient of Utilization



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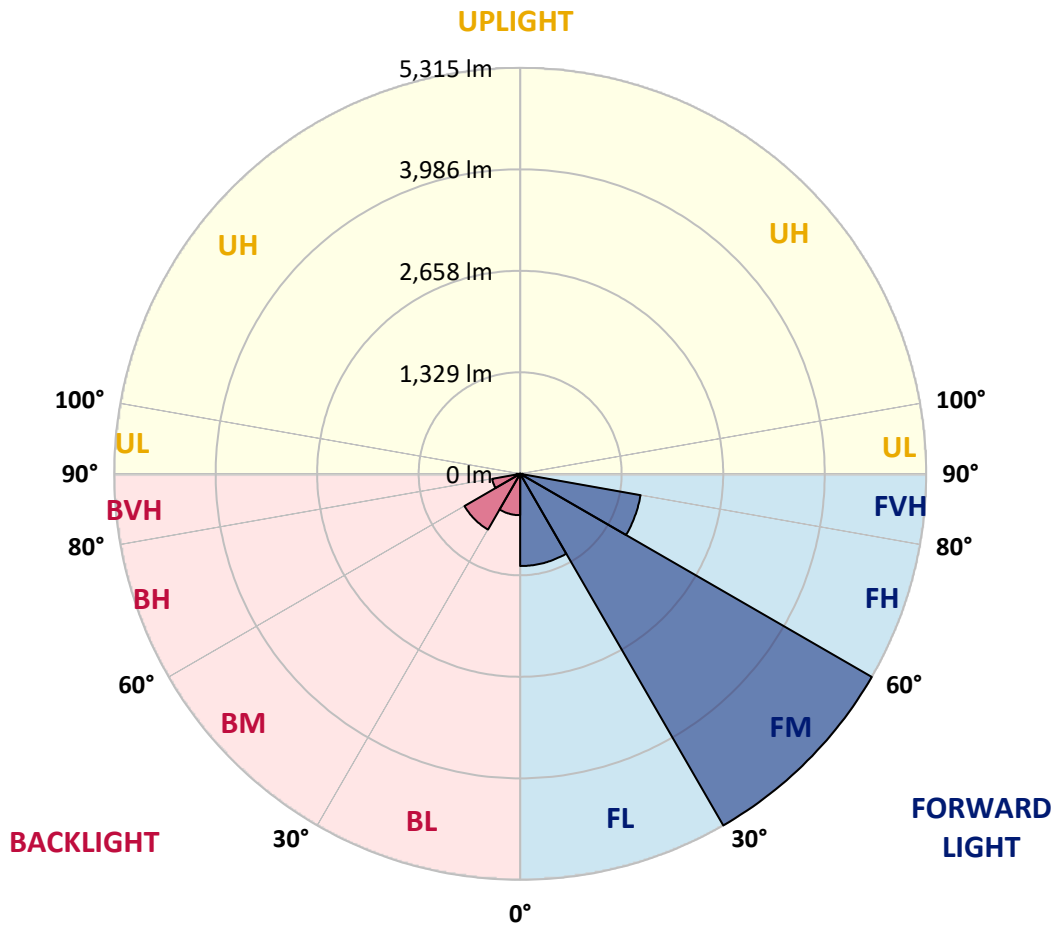
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.0	12.1			
FM (30°-60°)	5315.2	53.4			
FH (60°-80°)	1601.1	16.1			G1/1800
FVH (80°-90°)	33.6	0.3			G1/100
BL (0°-30°)	541.6	5.4	B2/1000		
BM (30°-60°)	842.3	8.5	B1/1000		
BH (60°-80°)	372.2	3.7	B1/500		G1/500
BVH (80°-90°)	46.0	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°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2.5°	2863.0	2860.9	2872.3	2833.6	2807.4	2771.9	2725.0	2665.3	2600.9	2533.0
5°	3120.9	3102.9	3114.7	3085.9	3057.1	3003.5	2934.0	2836.7	2717.8	2582.4
7.5°	3080.3	3067.9	3098.3	3124.0	3145.6	3138.9	3088.0	2986.0	2832.6	2636.0
10°	2752.3	2738.4	2781.1	2870.2	3001.0	3114.7	3176.5	3113.2	2950.0	2694.6
12.5°	2463.0	2456.3	2484.6	2556.7	2701.9	2920.1	3165.2	3224.4	3072.0	2764.1
15°	2339.4	2331.2	2349.2	2385.7	2478.4	2681.8	3062.2	3300.6	3192.0	2844.5
17.5°	2312.1	2302.9	2310.6	2329.6	2389.3	2544.3	2906.8	3338.2	3317.1	2934.0
20°	2362.6	2354.9	2355.9	2354.9	2396.6	2519.6	2798.6	3323.8	3426.2	3016.4
22.5°	2484.6	2471.7	2472.2	2444.9	2467.6	2562.8	2770.3	3285.2	3523.5	3088.5
25°	2683.3	2660.1	2664.8	2595.3	2589.1	2659.6	2814.6	3255.3	3620.3	3146.2
27.5°	2955.1	2928.9	2915.0	2811.5	2762.1	2797.1	2904.7	3265.6	3712.0	3196.1
30°	3294.9	3263.0	3234.7	3088.0	2998.4	2985.5	3044.7	3333.6	3820.1	3248.6
32.5°	3711.4	3674.4	3622.9	3428.3	3302.1	3234.7	3226.0	3454.5	3946.7	3315.5
35°	4207.2	4158.8	4085.7	3834.0	3674.4	3536.4	3464.8	3629.1	4120.2	3416.4
37.5°	4717.9	4663.4	4596.4	4296.8	4100.7	3897.3	3756.2	3865.9	4351.4	3553.4
40°	5189.0	5127.8	5065.5	4798.8	4588.2	4343.1	4113.0	4165.5	4634.0	3717.1
42.5°	5467.0	5421.7	5398.0	5253.9	5091.2	4842.5	4556.8	4520.8	4951.7	3905.5
45°	5454.7	5436.1	5509.2	5569.0	5530.4	5392.4	5076.8	4913.6	5270.4	4068.7
47.5°	5163.3	5175.6	5338.8	5674.5	5822.3	5894.3	5668.8	5299.2	5547.3	4190.8
50°	4370.4	4380.7	4758.6	5482.5	5897.4	6303.6	6256.3	5675.5	5762.0	4265.4
52.5°	3742.8	3749.5	3911.7	4913.1	5649.3	6509.6	6785.5	6030.3	5919.1	4286.0
55°	2819.2	2842.4	3024.1	3854.6	5003.7	6346.4	7107.8	6395.8	6018.4	4288.1
57.5°	1647.0	1672.2	1896.6	2616.4	3889.1	5777.5	7156.7	6720.1	6085.9	4271.6
60°	806.7	817.6	915.4	1375.1	2398.1	4681.4	6763.4	6877.2	6123.4	4262.8
62.5°	543.7	542.1	546.2	678.6	1181.5	3007.7	5943.8	6602.2	6103.4	4229.4
65°	467.5	461.8	446.4	476.2	612.1	1375.6	4592.3	5781.6	5950.5	4145.4
67.5°	404.1	404.7	405.2	395.9	437.1	634.8	2806.4	4554.2	5401.6	3748.0
70°	334.6	339.3	341.3	341.3	356.3	416.5	1198.0	3121.4	4260.8	2938.7
72.5°	304.8	295.0	296.0	290.9	290.9	317.1	482.4	1769.5	2684.3	1653.1
75°	248.7	254.8	255.9	252.3	240.4	242.0	286.2	742.4	1148.6	685.8
77.5°	214.7	214.7	216.7	214.2	204.9	181.2	191.0	287.8	390.8	281.1
80°	172.5	172.0	180.7	185.9	171.4	133.9	122.0	159.1	173.5	123.6
82.5°	83.9	89.1	124.1	141.6	130.3	96.8	74.7	98.8	92.7	54.6
85°	48.9	46.3	55.6	78.8	74.7	53.5	36.0	51.5	48.4	27.8
87.5°	15.4	14.4	11.3	26.8	21.6	14.9	9.8	14.9	13.4	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°
2495.4	0°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2503.6	2.5°	2467.1	2406.3	2346.1	2291.0	2257.5	2235.9	2214.3	2190.1	2180.8	2166.9
2510.3	5°	2442.4	2325.0	2220.5	2130.4	2048.5	1984.2	1919.3	1866.8	1843.1	1859.1
2531.4	7.5°	2428.0	2258.1	2096.9	1931.7	1772.6	1645.4	1534.7	1457.0	1422.0	1430.7
2552.0	10°	2415.1	2182.4	1936.8	1675.8	1447.2	1289.7	1176.4	1117.2	1095.1	1099.7
2579.8	12.5°	2403.2	2097.4	1743.7	1400.3	1157.3	1053.4	1020.9	1021.4	1025.6	1028.6
2624.1	15°	2401.2	1995.0	1528.0	1159.4	1000.8	994.1	1029.2	1051.3	1063.1	1066.7
2661.2	17.5°	2398.1	1872.5	1308.2	995.2	962.7	1008.0	1040.5	1054.9	1064.2	1064.7
2697.2	20°	2385.7	1717.0	1105.3	916.9	954.5	993.6	1013.7	1025.0	1032.8	1035.3
2724.5	22.5°	2347.6	1544.0	947.3	881.9	921.6	953.0	976.6	989.5	994.1	997.2
2729.7	25°	2279.2	1350.4	838.2	848.4	875.7	915.4	934.4	937.0	935.5	940.1
2716.8	27.5°	2189.6	1142.9	770.2	803.1	838.2	872.1	882.4	880.9	877.8	882.9
2694.6	30°	2081.5	956.6	726.9	752.2	800.1	830.9	840.2	836.6	830.4	836.1
2683.3	32.5°	1967.2	804.2	691.4	716.6	768.6	799.0	808.3	804.7	800.1	804.7
2696.2	35°	1860.6	697.6	658.5	693.0	743.9	773.8	785.6	786.2	786.2	791.8
2730.2	37.5°	1762.8	635.3	631.2	678.0	726.9	753.7	770.7	771.7	749.6	751.1
2787.8	40°	1672.2	609.0	618.8	668.3	710.5	736.2	737.2	679.6	638.9	637.9
2853.7	42.5°	1598.0	603.9	622.4	667.2	698.6	699.7	627.1	582.3	571.0	571.5
2914.5	45°	1528.5	602.4	630.7	667.2	681.1	604.4	555.5	543.7	544.7	548.8
2941.8	47.5°	1450.8	596.2	632.2	658.0	630.7	537.5	523.1	517.9	515.9	516.9
2935.6	50°	1365.9	574.0	612.7	639.4	544.2	508.7	490.6	489.1	491.7	493.2
2901.1	52.5°	1276.3	538.0	579.2	606.0	504.5	483.4	463.4	467.0	478.3	481.9
2865.1	55°	1217.6	495.8	534.9	539.0	476.7	459.7	442.8	451.0	472.1	478.8
2843.4	57.5°	1202.1	451.0	484.5	479.8	441.2	439.2	428.9	436.1	462.8	472.6
2842.4	60°	1197.5	410.8	435.0	431.4	406.7	416.5	413.9	417.5	426.8	429.9
2832.1	62.5°	1161.5	378.9	390.8	385.6	375.8	392.8	399.0	391.3	398.5	402.1
2761.6	65°	1069.8	353.2	347.5	343.9	348.0	363.5	375.8	360.4	367.1	377.4
2489.7	67.5°	918.5	318.2	302.7	306.8	319.7	327.9	343.9	326.4	332.1	349.6
2005.3	70°	742.9	273.9	260.0	271.8	284.2	301.2	303.8	291.9	305.3	324.9
1223.8	72.5°	525.6	229.1	219.3	243.5	247.6	269.8	264.1	258.4	277.0	283.7
604.9	75°	364.5	184.8	179.2	197.7	212.6	231.7	227.6	234.2	273.4	276.5
302.2	77.5°	230.6	143.6	140.0	151.9	172.5	193.6	200.3	276.5	467.0	485.5
157.0	80°	133.9	107.1	103.0	112.2	130.3	149.8	193.1	339.3	307.9	304.3
70.5	82.5°	74.7	73.6	68.5	71.0	87.0	108.1	272.9	238.9	194.1	200.3
28.3	85°	35.0	43.2	37.1	35.5	48.9	126.6	182.3	136.4	90.6	88.6
6.2	87.5°	9.3	8.2	8.2	9.3	20.6	109.1	72.6	58.2	34.5	33.5
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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