

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: P947227

Luminaire Tested: **GALN-SB2C-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947227
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9272 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

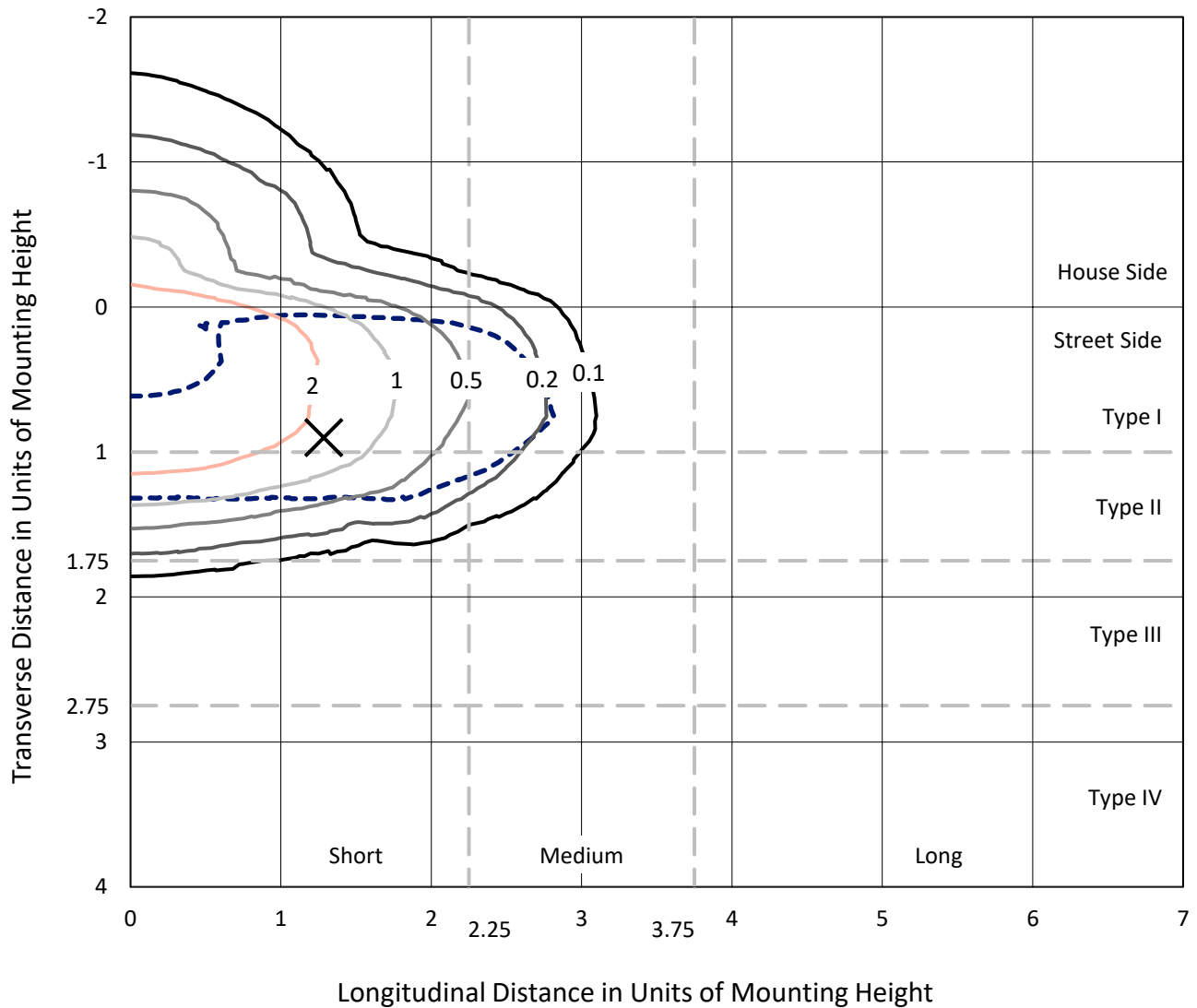
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

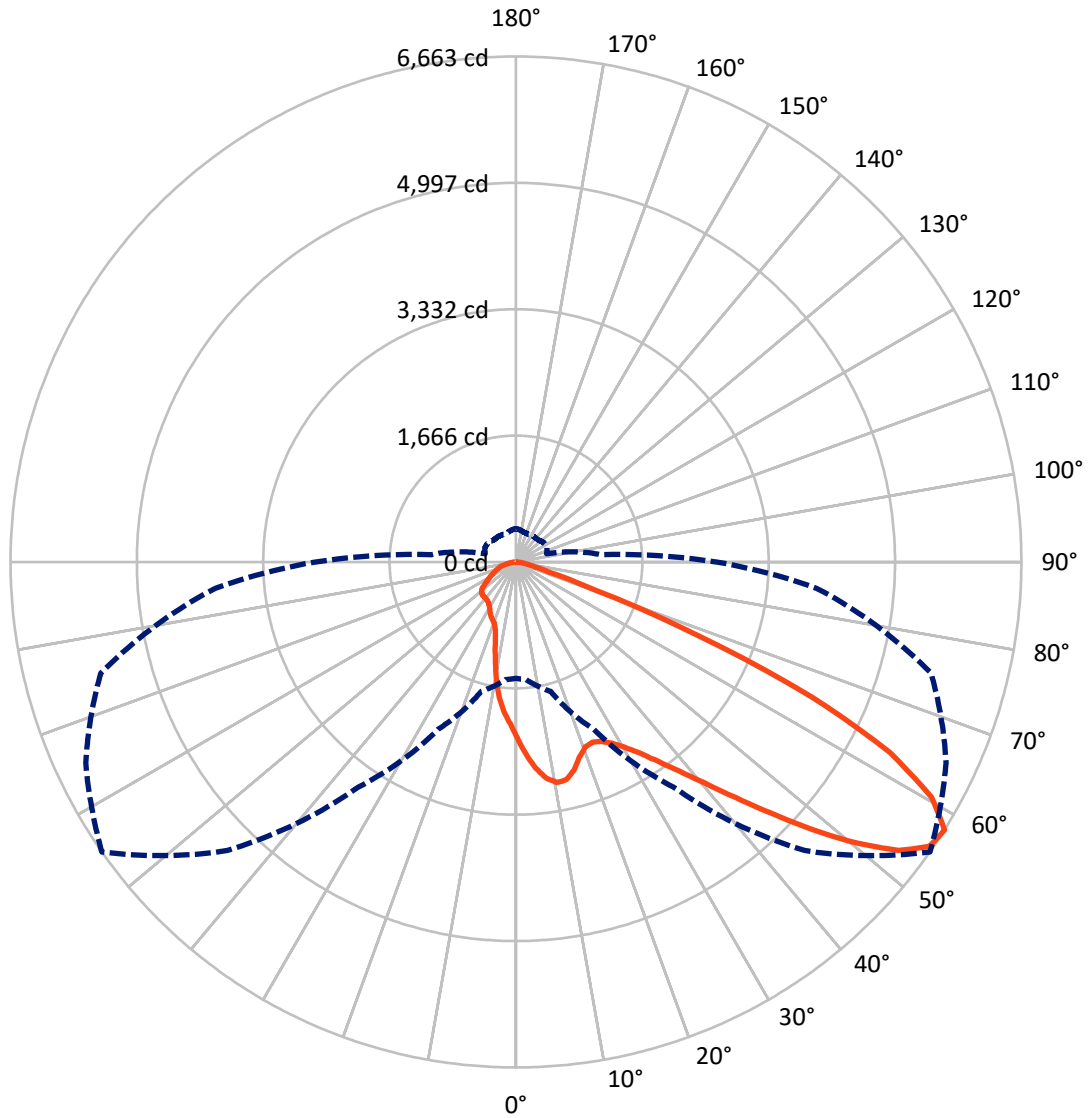
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	1677.7	0.0	1677.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7594.3	0.0	7594.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	9272.0	0.0	9272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	2.3
10°-20°	544.1	5.9
20°-30°	868.3	9.4
30°-40°	1374.7	14.8
40°-50°	2104.2	22.7
50°-60°	2253.8	24.3
60°-70°	1417.9	15.3
70°-80°	419.3	4.5
80°-90°	74.1	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°	9272.0	100.0
0°-180°	9272.0	100.0

Coefficient of Utilization



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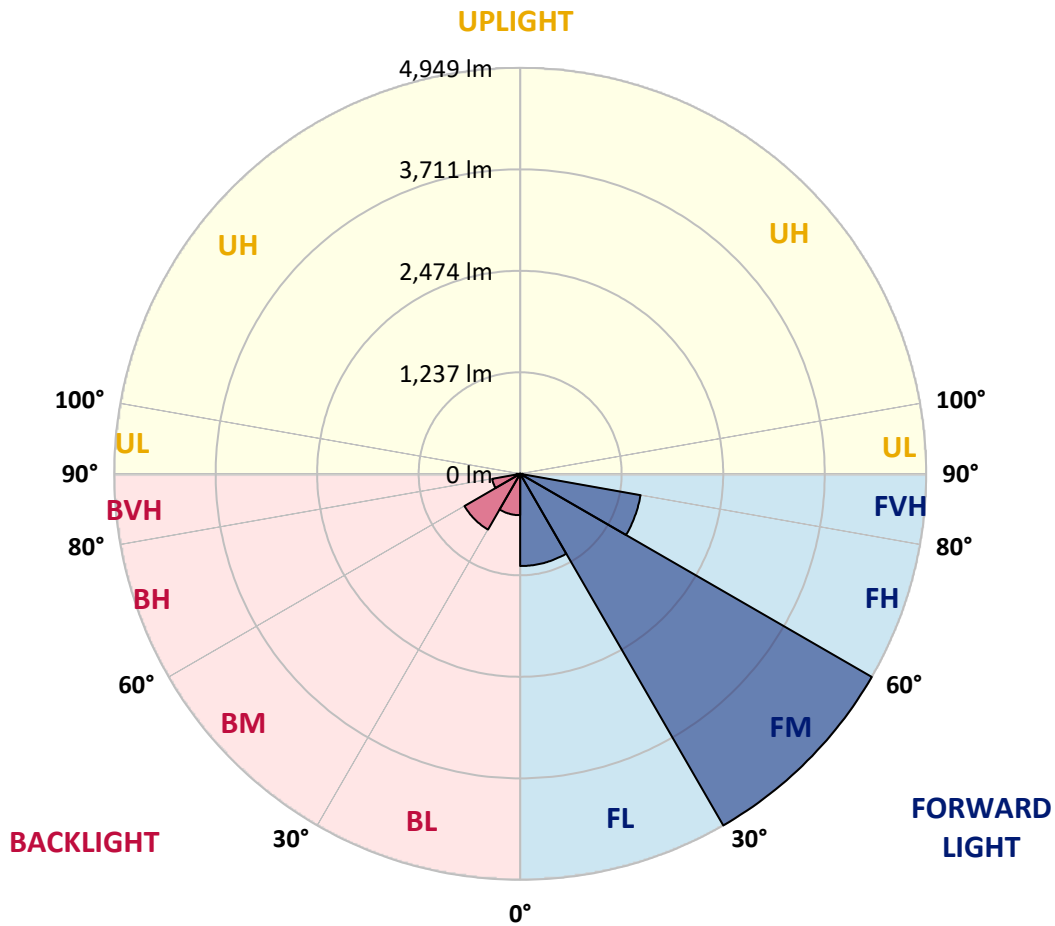
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.8	12.1			
FM (30°-60°)	4948.5	53.4			
FH (60°-80°)	1490.7	16.1			G1/1800
FVH (80°-90°)	31.3	0.3			G1/100
BL (0°-30°)	504.3	5.4	B2/1000		
BM (30°-60°)	784.2	8.5	B1/1000		
BH (60°-80°)	346.5	3.7	B1/500		G1/500
BVH (80°-90°)	42.8	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°	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3
2.5°	2665.5	2663.6	2674.1	2638.2	2613.7	2580.7	2537.0	2481.4	2421.5	2358.3
5°	2905.6	2888.9	2899.9	2873.0	2846.2	2796.4	2731.6	2641.1	2530.3	2404.3
7.5°	2867.8	2856.3	2884.5	2908.5	2928.6	2922.4	2875.0	2780.1	2637.2	2454.1
10°	2562.4	2549.5	2589.3	2672.2	2794.0	2899.9	2957.4	2898.4	2746.5	2508.8
12.5°	2293.1	2286.8	2313.2	2380.3	2515.5	2718.7	2946.9	3002.0	2860.1	2573.5
15°	2178.0	2170.4	2187.1	2221.2	2307.4	2496.8	2851.0	3072.9	2971.8	2648.2
17.5°	2152.6	2144.0	2151.2	2168.9	2224.5	2368.8	2706.2	3107.9	3088.3	2731.6
20°	2199.6	2192.4	2193.4	2192.4	2231.2	2345.8	2605.6	3094.5	3189.9	2808.3
22.5°	2313.2	2301.2	2301.7	2276.3	2297.4	2386.1	2579.2	3058.5	3280.5	2875.4
25°	2498.2	2476.6	2481.0	2416.3	2410.5	2476.2	2620.4	3030.7	3370.6	2929.1
27.5°	2751.3	2726.8	2713.9	2617.6	2571.5	2604.1	2704.3	3040.3	3455.9	2975.6
30°	3067.6	3037.9	3011.6	2875.0	2791.6	2779.6	2834.7	3103.6	3556.6	3024.5
32.5°	3455.4	3420.9	3373.0	3191.8	3074.4	3011.6	3003.4	3216.2	3674.5	3086.8
35°	3917.0	3871.9	3803.9	3569.5	3420.9	3292.4	3225.8	3378.7	3836.0	3180.8
37.5°	4392.5	4341.7	4279.4	4000.4	3817.8	3628.4	3497.1	3599.2	4051.2	3308.3
40°	4831.1	4774.0	4716.0	4467.7	4271.7	4043.5	3829.3	3878.2	4314.4	3460.7
42.5°	5089.9	5047.7	5025.7	4891.5	4740.0	4508.5	4242.5	4208.9	4610.1	3636.1
45°	5078.4	5061.1	5129.2	5184.8	5148.9	5020.4	4726.6	4574.6	4906.8	3788.1
47.5°	4807.1	4818.6	4970.5	5283.1	5420.6	5487.7	5277.8	4933.6	5164.7	3901.7
50°	4068.9	4078.5	4430.4	5104.3	5490.6	5868.8	5824.7	5284.0	5364.5	3971.2
52.5°	3484.7	3490.9	3641.9	4574.1	5259.6	6060.5	6317.4	5614.3	5510.7	3990.3
55°	2624.8	2646.3	2815.5	3588.7	4658.5	5908.6	6617.5	5954.6	5603.2	3992.3
57.5°	1533.3	1556.8	1765.8	2435.9	3620.8	5378.9	6663.0	6256.6	5666.0	3976.9
60°	751.1	761.2	852.2	1280.3	2232.7	4358.5	6296.8	6402.8	5701.0	3968.8
62.5°	506.2	504.7	508.6	631.7	1100.0	2800.2	5533.7	6146.8	5682.3	3937.6
65°	435.2	429.9	415.6	443.4	569.9	1280.7	4275.5	5382.8	5540.0	3859.5
67.5°	376.3	376.7	377.2	368.6	406.9	591.0	2612.8	4240.1	5029.0	3489.4
70°	311.6	315.9	317.8	317.8	331.7	387.8	1115.4	2906.1	3966.8	2736.0
72.5°	283.8	274.7	275.6	270.8	270.8	295.3	449.1	1647.4	2499.2	1539.1
75°	231.5	237.3	238.2	234.9	223.8	225.3	266.5	691.2	1069.4	638.5
77.5°	199.9	199.9	201.8	199.4	190.8	168.7	177.8	267.9	363.8	261.7
80°	160.6	160.1	168.2	173.0	159.6	124.6	113.6	148.1	161.5	115.0
82.5°	78.1	82.9	115.5	131.8	121.3	90.1	69.5	92.0	86.3	50.8
85°	45.5	43.1	51.8	73.3	69.5	49.8	33.6	47.9	45.1	25.9
87.5°	14.4	13.4	10.5	24.9	20.1	13.9	9.1	13.9	12.5	5.8
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°
2323.3	0°	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3
2330.9	2.5°	2296.9	2240.3	2184.3	2133.0	2101.8	2081.7	2061.6	2039.0	2030.4	2017.5
2337.2	5°	2273.9	2164.6	2067.3	1983.4	1907.2	1847.3	1786.9	1738.0	1716.0	1730.8
2356.8	7.5°	2260.5	2102.3	1952.3	1798.4	1650.3	1531.9	1428.9	1356.5	1323.9	1332.0
2376.0	10°	2248.5	2031.8	1803.2	1560.2	1347.4	1200.7	1095.2	1040.1	1019.5	1023.8
2401.9	12.5°	2237.5	1952.7	1623.5	1303.7	1077.5	980.7	950.5	951.0	954.8	957.7
2443.1	15°	2235.5	1857.4	1422.6	1079.4	931.8	925.6	958.2	978.8	989.8	993.2
2477.6	17.5°	2232.7	1743.3	1218.0	926.5	896.3	938.5	968.7	982.1	990.8	991.2
2511.2	20°	2221.2	1598.5	1029.1	853.7	888.7	925.1	943.8	954.3	961.5	963.9
2536.6	22.5°	2185.7	1437.5	881.9	821.1	858.0	887.2	909.3	921.3	925.6	928.4
2541.4	25°	2121.9	1257.3	780.3	789.9	815.3	852.2	870.0	872.4	870.9	875.2
2529.4	27.5°	2038.5	1064.1	717.1	747.7	780.3	812.0	821.6	820.1	817.2	822.0
2508.8	30°	1937.9	890.6	676.8	700.3	744.9	773.6	782.2	778.9	773.1	778.4
2498.2	32.5°	1831.5	748.7	643.7	667.2	715.6	743.9	752.5	749.2	744.9	749.2
2510.2	35°	1732.3	649.5	613.0	645.2	692.6	720.4	731.4	731.9	731.9	737.2
2541.8	37.5°	1641.2	591.5	587.6	631.3	676.8	701.7	717.5	718.5	697.9	699.3
2595.5	40°	1556.8	567.0	576.1	622.2	661.5	685.4	686.4	632.7	594.8	593.9
2656.9	42.5°	1487.8	562.2	579.5	621.2	650.4	651.4	583.8	542.1	531.6	532.0
2713.4	45°	1423.1	560.8	587.2	621.2	634.1	562.7	517.2	506.2	507.1	511.0
2738.8	47.5°	1350.7	555.1	588.6	612.6	587.2	500.4	487.0	482.2	480.3	481.2
2733.1	50°	1271.6	534.4	570.4	595.3	506.6	473.6	456.8	455.4	457.8	459.2
2701.0	52.5°	1188.2	500.9	539.2	564.2	469.7	450.1	431.4	434.7	445.3	448.6
2667.4	55°	1133.6	461.6	498.0	501.8	443.8	428.0	412.2	419.9	439.5	445.8
2647.3	57.5°	1119.2	419.9	451.0	446.7	410.8	408.9	399.3	406.0	430.9	440.0
2646.3	60°	1114.9	382.5	405.0	401.7	378.7	387.8	385.4	388.7	397.4	400.2
2636.7	62.5°	1081.3	352.8	363.8	359.0	349.9	365.7	371.5	364.3	371.0	374.3
2571.1	65°	996.0	328.8	323.5	320.2	324.0	338.4	349.9	335.5	341.8	351.3
2318.0	67.5°	855.1	296.2	281.8	285.7	297.7	305.3	320.2	303.9	309.2	325.5
1866.9	70°	691.7	255.0	242.1	253.1	264.6	280.4	282.8	271.8	284.2	302.5
1139.3	72.5°	489.4	213.3	204.2	226.7	230.6	251.2	245.9	240.6	257.9	264.1
563.2	75°	339.4	172.1	166.8	184.1	198.0	215.7	211.9	218.1	254.5	257.4
281.4	77.5°	214.7	133.7	130.4	141.4	160.6	180.2	186.5	257.4	434.7	452.0
146.2	80°	124.6	99.7	95.9	104.5	121.3	139.5	179.7	315.9	286.6	283.3
65.7	82.5°	69.5	68.5	63.7	66.1	81.0	100.7	254.0	222.4	180.7	186.5
26.4	85°	32.6	40.3	34.5	33.1	45.5	117.9	169.7	127.0	84.4	82.4
5.8	87.5°	8.6	7.7	7.7	8.6	19.2	101.6	67.6	54.2	32.1	31.2
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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