

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: P946219

Luminaire Tested: **GALN-SB1D-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946219
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7502 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

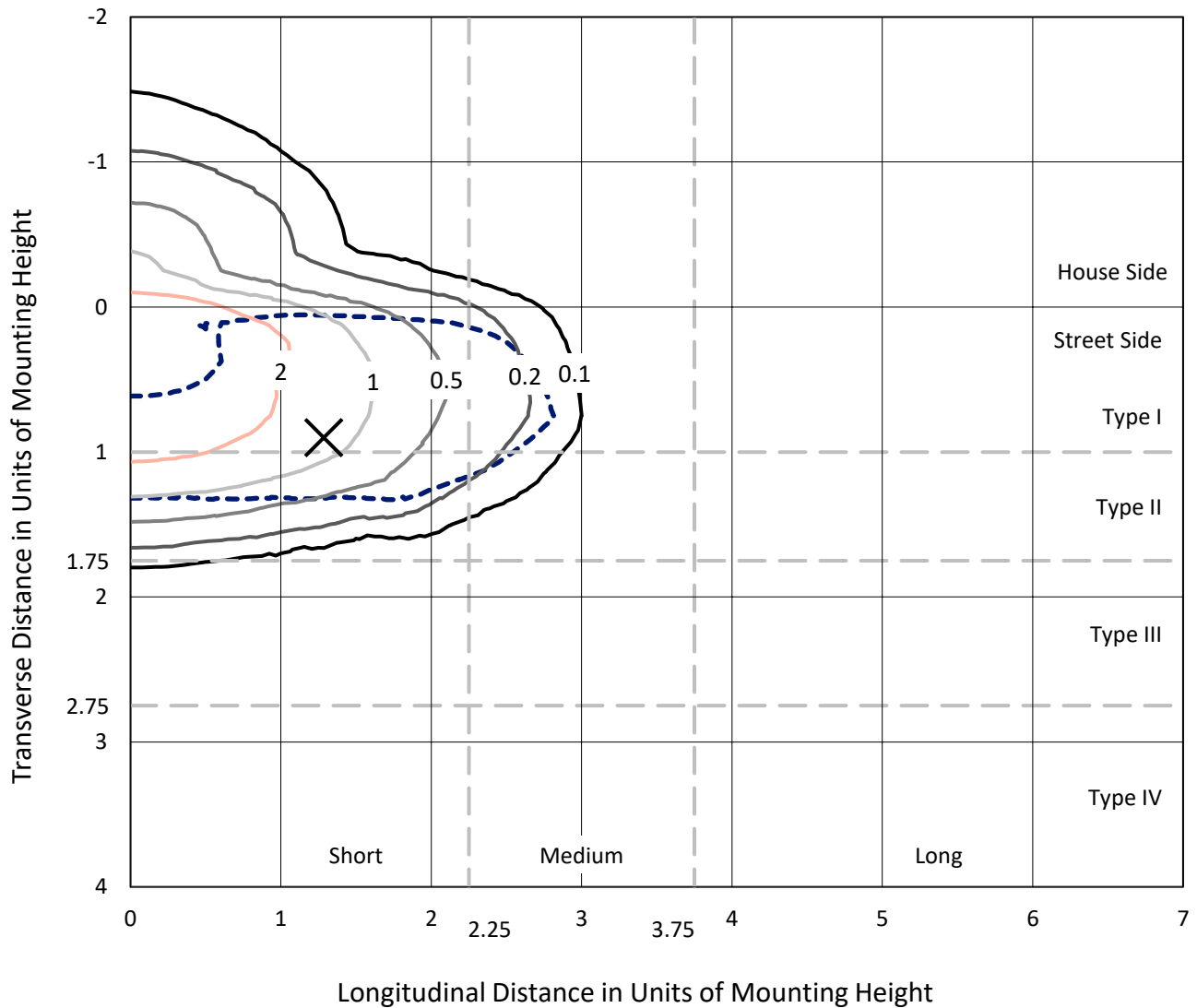
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

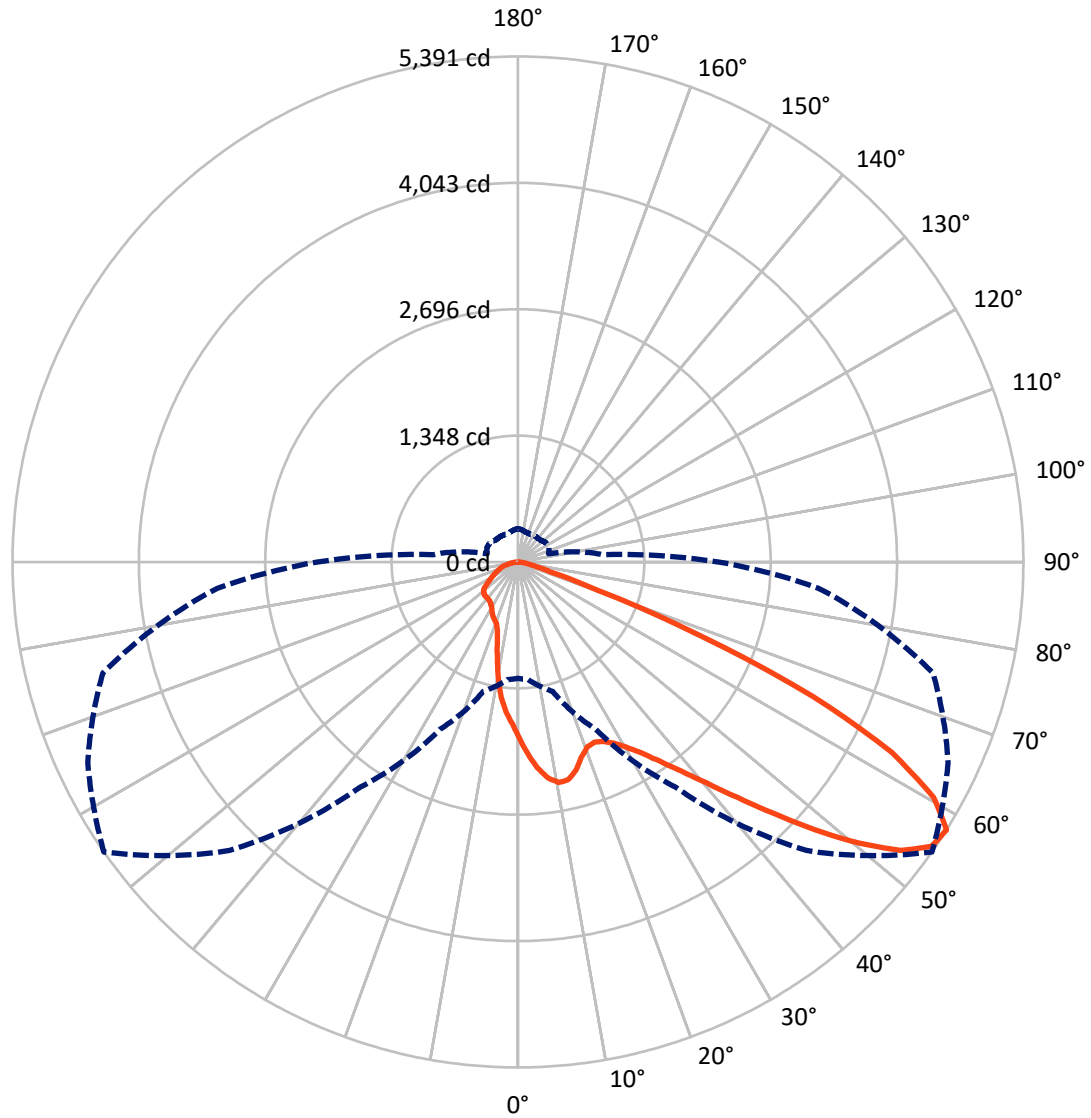
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1357.5	0.0	1357.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6144.5	0.0	6144.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	7502.0	0.0	7502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	2.3
10°-20°	440.3	5.9
20°-30°	702.5	9.4
30°-40°	1112.3	14.8
40°-50°	1702.5	22.7
50°-60°	1823.5	24.3
60°-70°	1147.2	15.3
70°-80°	339.2	4.5
80°-90°	60.0	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°	7502.0	100.0
0°-180°	7502.0	100.0

Coefficient of Utilization



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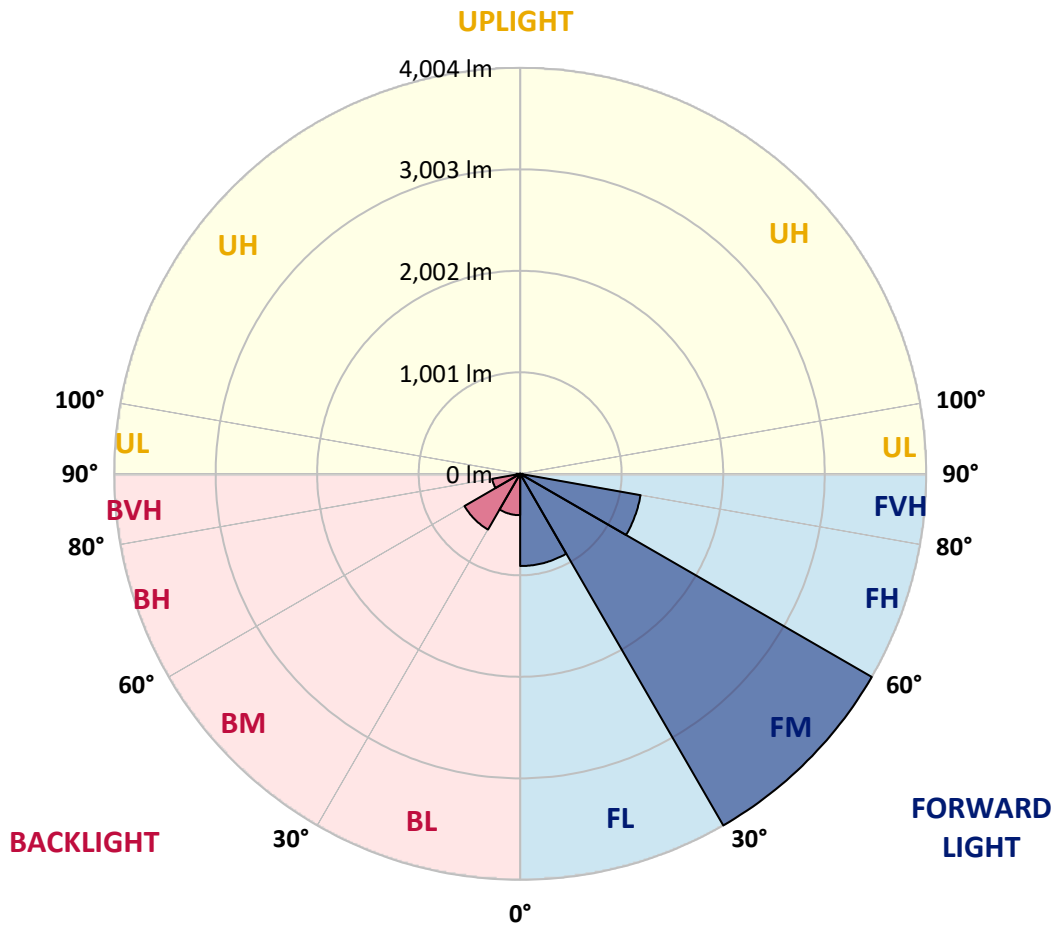
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.2	12.1			
FM (30°-60°)	4003.9	53.4			
FH (60°-80°)	1206.1	16.1			G1/1800
FVH (80°-90°)	25.3	0.3			G1/100
BL (0°-30°)	408.0	5.4	B1/500		
BM (30°-60°)	634.5	8.5	B1/1000		
BH (60°-80°)	280.3	3.7	B1/500		G1/500
BVH (80°-90°)	34.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	2156.7	2155.1	2163.6	2134.6	2114.8	2088.0	2052.7	2007.7	1959.3	1908.1
5°	2351.0	2337.4	2346.3	2324.6	2302.9	2262.5	2210.2	2136.9	2047.3	1945.3
7.5°	2320.3	2311.0	2333.9	2353.3	2369.6	2364.5	2326.1	2249.3	2133.8	1985.6
10°	2073.3	2062.8	2095.0	2162.1	2260.6	2346.3	2392.8	2345.1	2222.2	2029.8
12.5°	1855.3	1850.3	1871.6	1925.9	2035.3	2199.7	2384.3	2428.9	2314.1	2082.2
15°	1762.2	1756.0	1769.6	1797.2	1867.0	2020.1	2306.7	2486.3	2404.5	2142.7
17.5°	1741.7	1734.7	1740.5	1754.9	1799.9	1916.6	2189.6	2514.6	2498.7	2210.2
20°	1779.7	1773.9	1774.7	1773.9	1805.3	1898.0	2108.2	2503.8	2580.9	2272.2
22.5°	1871.6	1861.9	1862.3	1841.8	1858.8	1930.6	2086.9	2474.7	2654.2	2326.5
25°	2021.3	2003.9	2007.4	1955.0	1950.3	2003.5	2120.2	2452.2	2727.1	2370.0
27.5°	2226.1	2206.3	2195.8	2117.9	2080.6	2107.0	2188.1	2459.9	2796.2	2407.6
30°	2482.0	2458.0	2436.7	2326.1	2258.7	2249.0	2293.6	2511.1	2877.6	2447.1
32.5°	2795.8	2767.9	2729.1	2582.5	2487.5	2436.7	2430.1	2602.3	2973.0	2497.6
35°	3169.3	3132.8	3077.7	2888.1	2767.9	2663.9	2610.0	2733.7	3103.7	2573.6
37.5°	3554.0	3512.9	3462.4	3236.7	3089.0	2935.8	2829.5	2912.1	3277.8	2676.7
40°	3908.8	3862.7	3815.7	3614.9	3456.2	3271.6	3098.3	3137.8	3490.8	2800.1
42.5°	4118.2	4084.1	4066.3	3957.7	3835.1	3647.8	3432.6	3405.4	3730.0	2942.0
45°	4108.9	4095.0	4150.0	4195.0	4165.9	4062.0	3824.3	3701.3	3970.1	3064.9
47.5°	3889.4	3898.7	4021.7	4274.5	4385.8	4440.1	4270.3	3991.8	4178.7	3156.8
50°	3292.2	3300.0	3584.6	4129.9	4442.5	4748.5	4712.8	4275.3	4340.5	3213.1
52.5°	2819.4	2824.5	2946.6	3701.0	4255.5	4903.6	5111.5	4542.5	4458.8	3228.6
55°	2123.7	2141.1	2278.0	2903.6	3769.2	4780.6	5354.2	4817.9	4533.6	3230.1
57.5°	1240.6	1259.6	1428.7	1970.9	2929.6	4352.1	5391.1	5062.2	4584.4	3217.7
60°	607.7	615.9	689.5	1035.9	1806.5	3526.4	5094.8	5180.5	4612.7	3211.1
62.5°	409.5	408.4	411.5	511.1	890.0	2265.6	4477.4	4973.4	4597.6	3185.9
65°	352.1	347.9	336.2	358.7	461.1	1036.3	3459.3	4355.2	4482.4	3122.7
67.5°	304.4	304.8	305.2	298.2	329.3	478.2	2114.0	3430.6	4069.0	2823.3
70°	252.1	255.6	257.1	257.1	268.4	313.7	902.5	2351.3	3209.6	2213.7
72.5°	229.6	222.2	223.0	219.1	219.1	238.9	363.4	1332.9	2022.1	1245.3
75°	187.3	192.0	192.7	190.0	181.1	182.3	215.6	559.2	865.2	516.6
77.5°	161.7	161.7	163.3	161.3	154.4	136.5	143.9	216.8	294.4	211.7
80°	129.9	129.5	136.1	140.0	129.1	100.8	91.9	119.8	130.7	93.1
82.5°	63.2	67.1	93.5	106.7	98.1	72.9	56.2	74.5	69.8	41.1
85°	36.8	34.9	41.9	59.3	56.2	40.3	27.1	38.8	36.5	20.9
87.5°	11.6	10.9	8.5	20.2	16.3	11.2	7.4	11.2	10.1	4.7
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°
1879.8	0°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
1886.0	2.5°	1858.4	1812.7	1767.3	1725.8	1700.6	1684.3	1668.0	1649.8	1642.8	1632.3
1891.0	5°	1839.8	1751.4	1672.7	1604.8	1543.1	1494.7	1445.8	1406.2	1388.4	1400.4
1906.9	7.5°	1829.0	1701.0	1579.6	1455.1	1335.3	1239.5	1156.1	1097.5	1071.2	1077.7
1922.4	10°	1819.3	1644.0	1459.0	1262.4	1090.2	971.5	886.2	841.6	824.9	828.4
1943.4	12.5°	1810.3	1580.0	1313.5	1054.9	871.8	793.5	769.0	769.4	772.5	774.9
1976.7	15°	1808.8	1502.8	1151.0	873.4	753.9	748.9	775.2	791.9	800.8	803.6
2004.6	17.5°	1806.5	1410.5	985.4	749.7	725.2	759.3	783.8	794.6	801.6	802.0
2031.8	20°	1797.2	1293.4	832.6	690.7	719.0	748.5	763.6	772.1	778.0	779.9
2052.3	22.5°	1768.5	1163.1	713.6	664.3	694.2	717.9	735.7	745.4	748.9	751.2
2056.2	25°	1716.9	1017.2	631.4	639.1	659.7	689.5	703.9	705.8	704.7	708.2
2046.5	27.5°	1649.4	861.0	580.2	605.0	631.4	657.0	664.7	663.6	661.2	665.1
2029.8	30°	1568.0	720.6	547.6	566.6	602.7	625.9	632.9	630.2	625.6	629.8
2021.3	32.5°	1481.9	605.8	520.8	539.8	579.0	601.9	608.9	606.2	602.7	606.2
2031.0	35°	1401.6	525.5	496.0	522.0	560.4	582.9	591.8	592.2	592.2	596.5
2056.6	37.5°	1327.9	478.6	475.5	510.8	547.6	567.8	580.6	581.3	564.7	565.8
2100.0	40°	1259.6	458.8	466.2	503.4	535.2	554.6	555.4	511.9	481.3	480.5
2149.7	42.5°	1203.8	454.9	468.9	502.6	526.3	527.0	472.4	438.6	430.1	430.5
2195.4	45°	1151.4	453.7	475.1	502.6	513.1	455.3	418.5	409.5	410.3	413.4
2216.0	47.5°	1092.9	449.1	476.2	495.6	475.1	404.9	394.0	390.1	388.6	389.4
2211.3	50°	1028.9	432.4	461.5	481.7	409.9	383.2	369.6	368.4	370.4	371.5
2185.4	52.5°	961.4	405.3	436.3	456.5	380.1	364.2	349.0	351.8	360.3	363.0
2158.2	55°	917.2	373.5	402.9	406.0	359.1	346.3	333.5	339.7	355.6	360.7
2141.9	57.5°	905.6	339.7	364.9	361.4	332.4	330.8	323.1	328.5	348.6	356.0
2141.1	60°	902.1	309.5	327.7	325.0	306.4	313.7	311.8	314.5	321.5	323.8
2133.4	62.5°	874.9	285.4	294.4	290.5	283.1	295.9	300.6	294.7	300.2	302.9
2080.3	65°	805.9	266.0	261.8	259.1	262.2	273.8	283.1	271.5	276.5	284.3
1875.5	67.5°	691.9	239.7	228.0	231.1	240.8	247.0	259.1	245.9	250.1	263.3
1510.6	70°	559.6	206.3	195.8	204.8	214.1	226.9	228.8	219.9	230.0	244.7
921.8	72.5°	396.0	172.6	165.2	183.4	186.5	203.2	199.0	194.7	208.6	213.7
455.7	75°	274.6	139.2	135.0	148.9	160.2	174.5	171.4	176.5	205.9	208.3
227.6	77.5°	173.7	108.2	105.5	114.4	129.9	145.8	150.9	208.3	351.8	365.7
118.3	80°	100.8	80.7	77.6	84.5	98.1	112.9	145.4	255.6	231.9	229.2
53.1	82.5°	56.2	55.5	51.6	53.5	65.5	81.4	205.5	179.9	146.2	150.9
21.3	85°	26.4	32.6	27.9	26.8	36.8	95.4	137.3	102.8	68.3	66.7
4.7	87.5°	7.0	6.2	6.2	7.0	15.5	82.2	54.7	43.8	26.0	25.2
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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