

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: P946597

Luminaire Tested: **GALN-SB2A-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946597  
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-SB2A-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

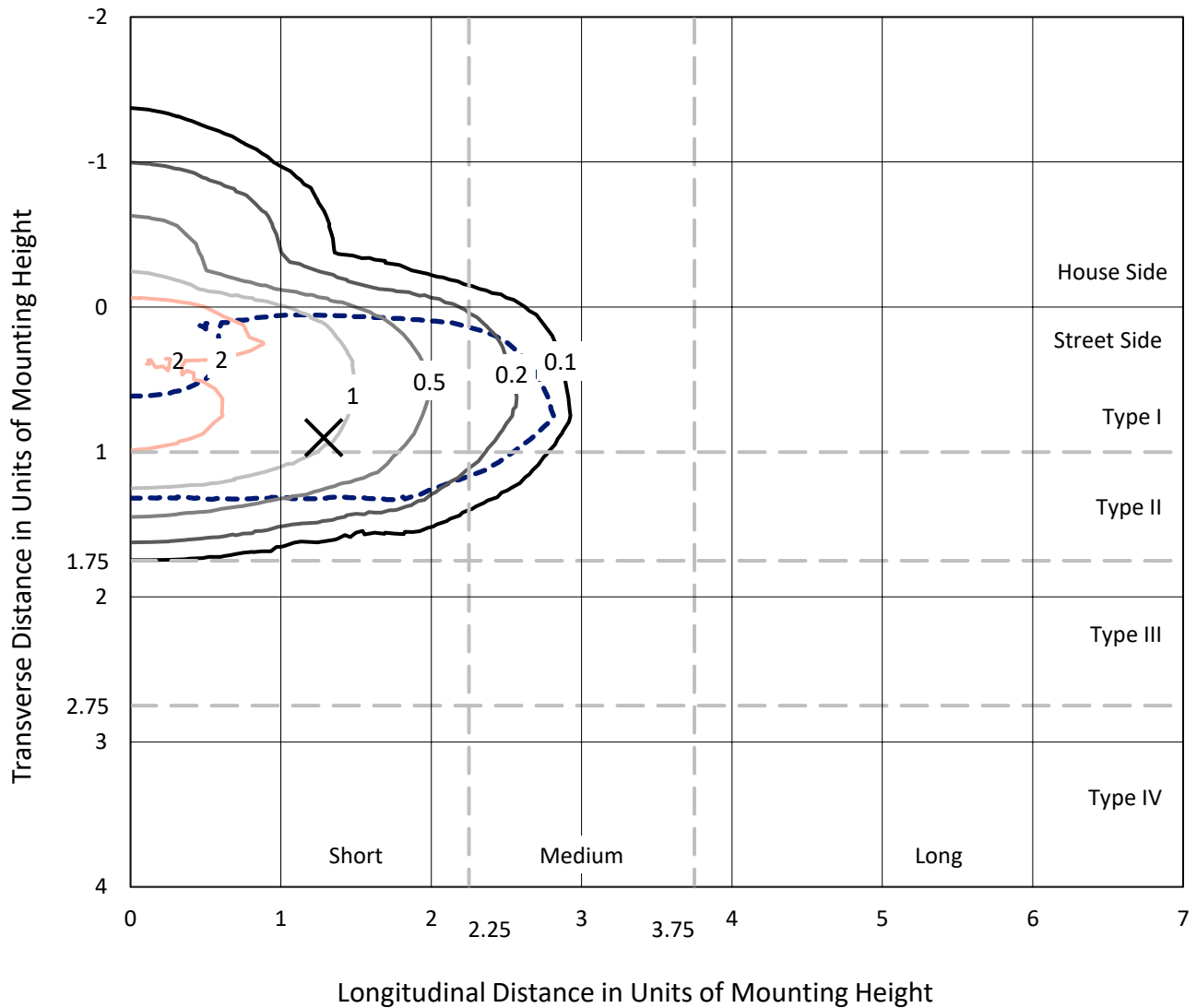
Lumens per Lamp: N/A  
Luminaire Lumens: 6347 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

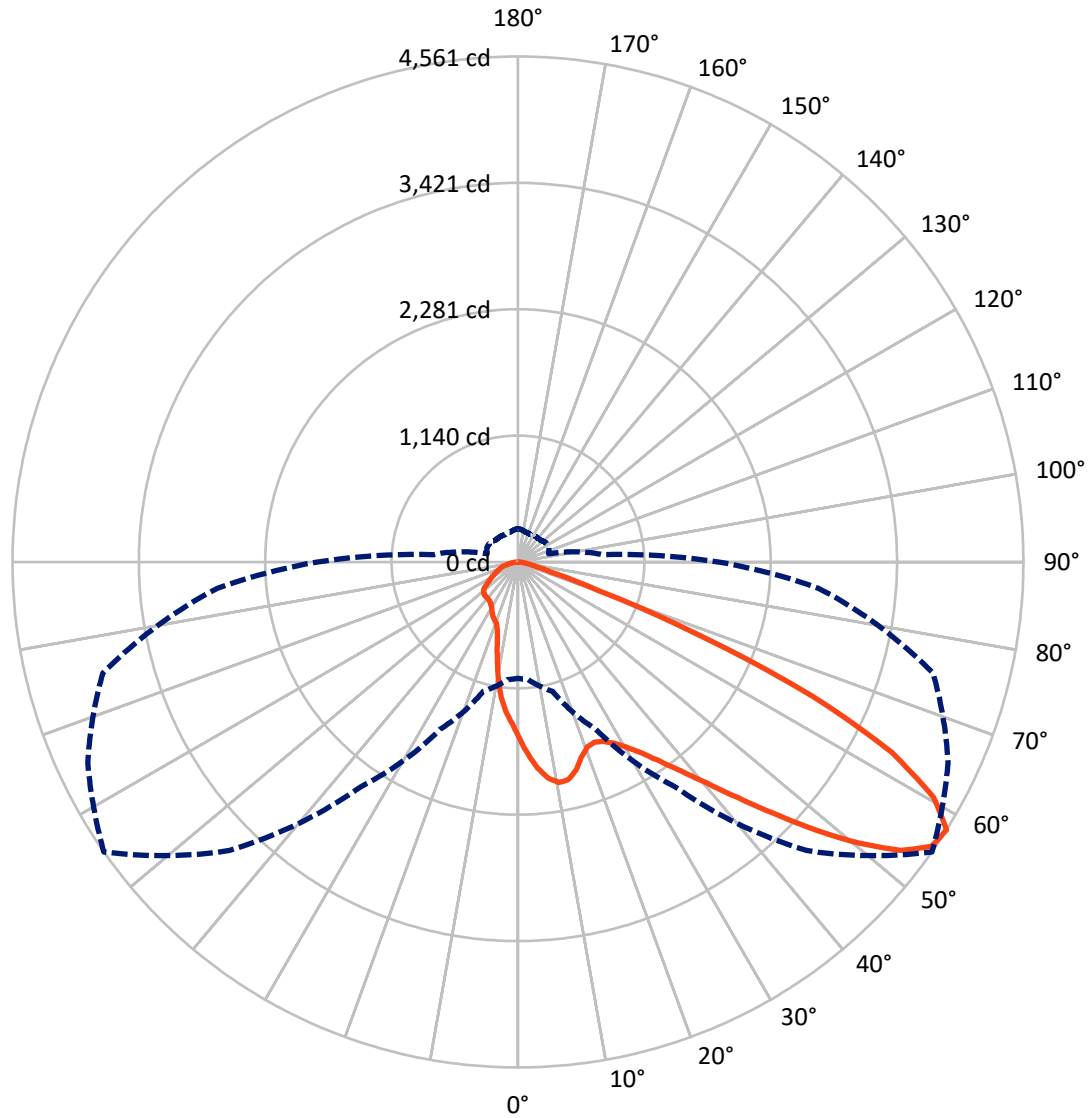
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1148.5	0.0	1148.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5198.5	0.0	5198.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6347.0	0.0	6347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	2.3
10°-20°	372.5	5.9
20°-30°	594.4	9.4
30°-40°	941.1	14.8
40°-50°	1440.4	22.7
50°-60°	1542.8	24.3
60°-70°	970.6	15.3
70°-80°	287.0	4.5
80°-90°	50.7	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°	6347.0	100.0
0°-180°	6347.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946597

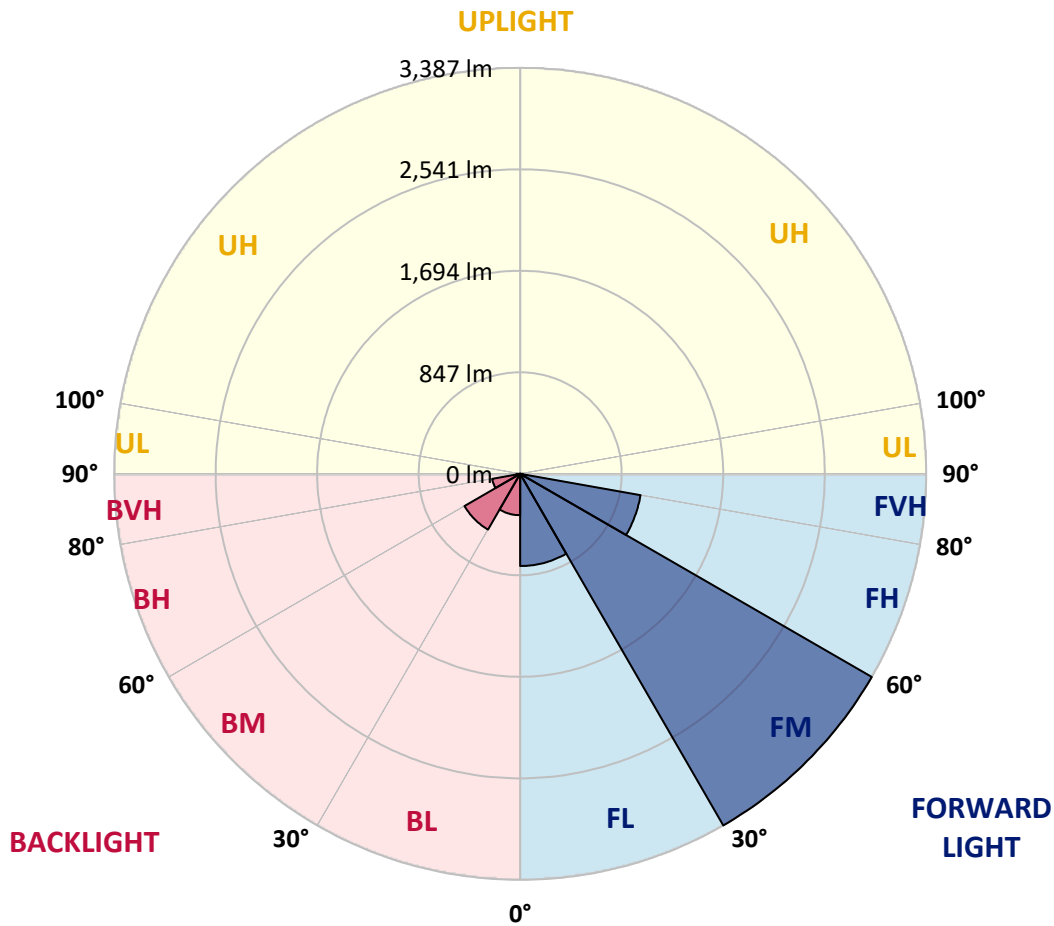
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.3	12.1			
FM (30°-60°)	3387.4	53.4			
FH (60°-80°)	1020.4	16.1			G1/1800
FVH (80°-90°)	21.4	0.3			G1/100
BL (0°-30°)	345.2	5.4	B1/500		
BM (30°-60°)	536.8	8.5	B1/1000		
BH (60°-80°)	237.2	3.7	B1/500		G1/500
BVH (80°-90°)	29.3	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°	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4
2.5°	1824.6	1823.3	1830.5	1805.9	1789.2	1766.5	1736.7	1698.6	1657.6	1614.3
5°	1989.0	1977.5	1985.1	1966.7	1948.3	1914.2	1869.9	1807.9	1732.1	1645.8
7.5°	1963.1	1955.2	1974.6	1991.0	2004.8	2000.5	1968.0	1903.0	1805.3	1679.9
10°	1754.1	1745.2	1772.5	1829.2	1912.6	1985.1	2024.4	1984.1	1880.1	1717.3
12.5°	1569.7	1565.4	1583.5	1629.4	1721.9	1861.0	2017.2	2055.0	1957.8	1761.6
15°	1490.9	1485.7	1497.2	1520.5	1579.5	1709.1	1951.6	2103.5	2034.3	1812.8
17.5°	1473.5	1467.6	1472.6	1484.7	1522.8	1621.5	1852.5	2127.5	2114.0	1869.9
20°	1505.7	1500.8	1501.4	1500.8	1527.4	1605.8	1783.6	2118.3	2183.6	1922.4
22.5°	1583.5	1575.3	1575.6	1558.2	1572.6	1633.3	1765.6	2093.7	2245.6	1968.3
25°	1710.1	1695.3	1698.3	1654.0	1650.1	1695.0	1793.8	2074.6	2307.3	2005.1
27.5°	1883.4	1866.6	1857.8	1791.8	1760.3	1782.6	1851.2	2081.2	2365.7	2036.9
30°	2099.9	2079.6	2061.5	1968.0	1910.9	1902.7	1940.4	2124.5	2434.6	2070.4
32.5°	2365.3	2341.7	2308.9	2184.9	2104.5	2061.5	2055.9	2201.6	2515.3	2113.0
35°	2681.3	2650.5	2603.9	2443.4	2341.7	2253.8	2208.2	2312.9	2625.9	2177.3
37.5°	3006.8	2972.0	2929.4	2738.4	2613.4	2483.8	2393.9	2463.8	2773.2	2264.6
40°	3307.0	3268.0	3228.3	3058.3	2924.1	2767.9	2621.3	2654.7	2953.3	2369.0
42.5°	3484.2	3455.3	3440.2	3348.4	3244.7	3086.2	2904.1	2881.1	3155.8	2489.0
45°	3476.3	3464.5	3511.1	3549.2	3524.6	3436.6	3235.5	3131.5	3358.9	2593.1
47.5°	3290.6	3298.5	3402.5	3616.4	3710.6	3756.5	3612.8	3377.2	3535.4	2670.8
50°	2785.3	2791.9	3032.7	3494.1	3758.5	4017.4	3987.2	3617.1	3672.2	2718.4
52.5°	2385.4	2389.6	2493.0	3131.2	3600.4	4148.6	4324.5	3843.2	3772.3	2731.5
55°	1796.7	1811.5	1927.3	2456.6	3188.9	4044.6	4529.9	4076.1	3835.6	2732.8
57.5°	1049.6	1065.7	1208.8	1667.5	2478.5	3682.1	4561.1	4282.8	3878.6	2722.3
60°	514.1	521.0	583.4	876.4	1528.3	2983.5	4310.4	4382.9	3902.5	2716.8
62.5°	346.5	345.5	348.1	432.4	753.0	1916.8	3788.0	4207.7	3889.8	2695.4
65°	297.9	294.3	284.5	303.5	390.1	876.7	2926.7	3684.7	3792.3	2641.9
67.5°	257.6	257.9	258.2	252.3	278.6	404.6	1788.5	2902.5	3442.5	2388.6
70°	213.3	216.2	217.5	217.5	227.1	265.4	763.5	1989.3	2715.4	1872.9
72.5°	194.2	188.0	188.7	185.4	185.4	202.1	307.4	1127.7	1710.8	1053.6
75°	158.5	162.4	163.1	160.8	153.2	154.2	182.4	473.1	732.0	437.0
77.5°	136.8	136.8	138.1	136.5	130.6	115.5	121.7	183.4	249.0	179.1
80°	109.9	109.6	115.2	118.4	109.3	85.3	77.8	101.4	110.6	78.7
82.5°	53.5	56.8	79.1	90.2	83.0	61.7	47.6	63.0	59.1	34.8
85°	31.2	29.5	35.4	50.2	47.6	34.1	23.0	32.8	30.8	17.7
87.5°	9.8	9.2	7.2	17.1	13.8	9.5	6.2	9.5	8.5	3.9
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°
1590.4	0°	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4	1590.4
1595.6	2.5°	1572.3	1533.6	1495.2	1460.1	1438.8	1425.0	1411.2	1395.8	1389.9	1381.0
1599.9	5°	1556.6	1481.7	1415.1	1357.7	1305.6	1264.5	1223.2	1189.7	1174.6	1184.8
1613.3	7.5°	1547.4	1439.1	1336.4	1231.1	1129.7	1048.6	978.1	928.6	906.2	911.8
1626.4	10°	1539.2	1390.9	1234.4	1068.0	922.3	821.9	749.7	712.0	697.9	700.8
1644.2	12.5°	1531.6	1336.7	1111.3	892.5	737.6	671.3	650.6	651.0	653.6	655.6
1672.4	15°	1530.3	1271.4	973.8	738.9	637.8	633.6	655.9	670.0	677.5	679.8
1696.0	17.5°	1528.3	1193.3	833.7	634.2	613.6	642.4	663.1	672.3	678.2	678.5
1719.0	20°	1520.5	1094.2	704.5	584.4	608.3	633.3	646.0	653.3	658.2	659.8
1736.4	22.5°	1496.2	984.0	603.7	562.1	587.3	607.3	622.4	630.6	633.6	635.6
1739.6	25°	1452.5	860.6	534.2	540.7	558.1	583.4	595.5	597.2	596.2	599.1
1731.4	27.5°	1395.5	728.4	490.9	511.9	534.2	555.8	562.4	561.4	559.4	562.7
1717.3	30°	1326.6	609.6	463.3	479.4	509.9	529.6	535.5	533.2	529.2	532.9
1710.1	32.5°	1253.7	512.5	440.7	456.7	489.9	509.2	515.1	512.8	509.9	512.8
1718.3	35°	1185.8	444.6	419.7	441.6	474.1	493.2	500.7	501.0	501.0	504.6
1740.0	37.5°	1123.5	404.9	402.3	432.1	463.3	480.4	491.2	491.8	477.7	478.7
1776.7	40°	1065.7	388.2	394.4	425.9	452.8	469.2	469.9	433.1	407.2	406.5
1818.7	42.5°	1018.5	384.9	396.7	425.2	445.2	445.9	399.6	371.1	363.9	364.2
1857.4	45°	974.2	383.9	401.9	425.2	434.1	385.2	354.0	346.5	347.1	349.8
1874.8	47.5°	924.6	380.0	402.9	419.3	401.9	342.5	333.4	330.1	328.8	329.4
1870.9	50°	870.5	365.8	390.5	407.5	346.8	324.2	312.7	311.7	313.3	314.3
1848.9	52.5°	813.4	342.9	369.1	386.2	321.5	308.1	295.3	297.6	304.8	307.1
1825.9	55°	776.0	316.0	340.9	343.5	303.8	293.0	282.2	287.4	300.9	305.1
1812.2	57.5°	766.1	287.4	308.8	305.8	281.2	279.9	273.3	277.9	295.0	301.2
1811.5	60°	763.2	261.8	277.3	275.0	259.2	265.4	263.8	266.1	272.0	274.0
1804.9	62.5°	740.2	241.5	249.0	245.8	239.5	250.3	254.3	249.4	254.0	256.3
1760.0	65°	681.8	225.1	221.5	219.2	221.8	231.6	239.5	229.7	233.9	240.5
1586.7	67.5°	585.3	202.8	192.9	195.6	203.8	209.0	219.2	208.0	211.6	222.8
1278.0	70°	473.5	174.6	165.7	173.2	181.1	191.9	193.6	186.0	194.6	207.0
779.9	72.5°	335.0	146.0	139.8	155.2	157.8	171.9	168.3	164.7	176.5	180.8
385.5	75°	232.3	117.8	114.2	126.0	135.5	147.6	145.0	149.3	174.2	176.2
192.6	77.5°	147.0	91.5	89.2	96.8	109.9	123.4	127.6	176.2	297.6	309.4
100.1	80°	85.3	68.2	65.6	71.5	83.0	95.5	123.0	216.2	196.2	193.9
45.0	82.5°	47.6	46.9	43.6	45.3	55.5	68.9	173.9	152.2	123.7	127.6
18.0	85°	22.3	27.6	23.6	22.6	31.2	80.7	116.2	86.9	57.7	56.4
3.9	87.5°	5.9	5.2	5.2	5.9	13.1	69.6	46.3	37.1	22.0	21.3
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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