

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: P945274

Luminaire Tested: **GALN-SB1B-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945274  
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-SB1B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

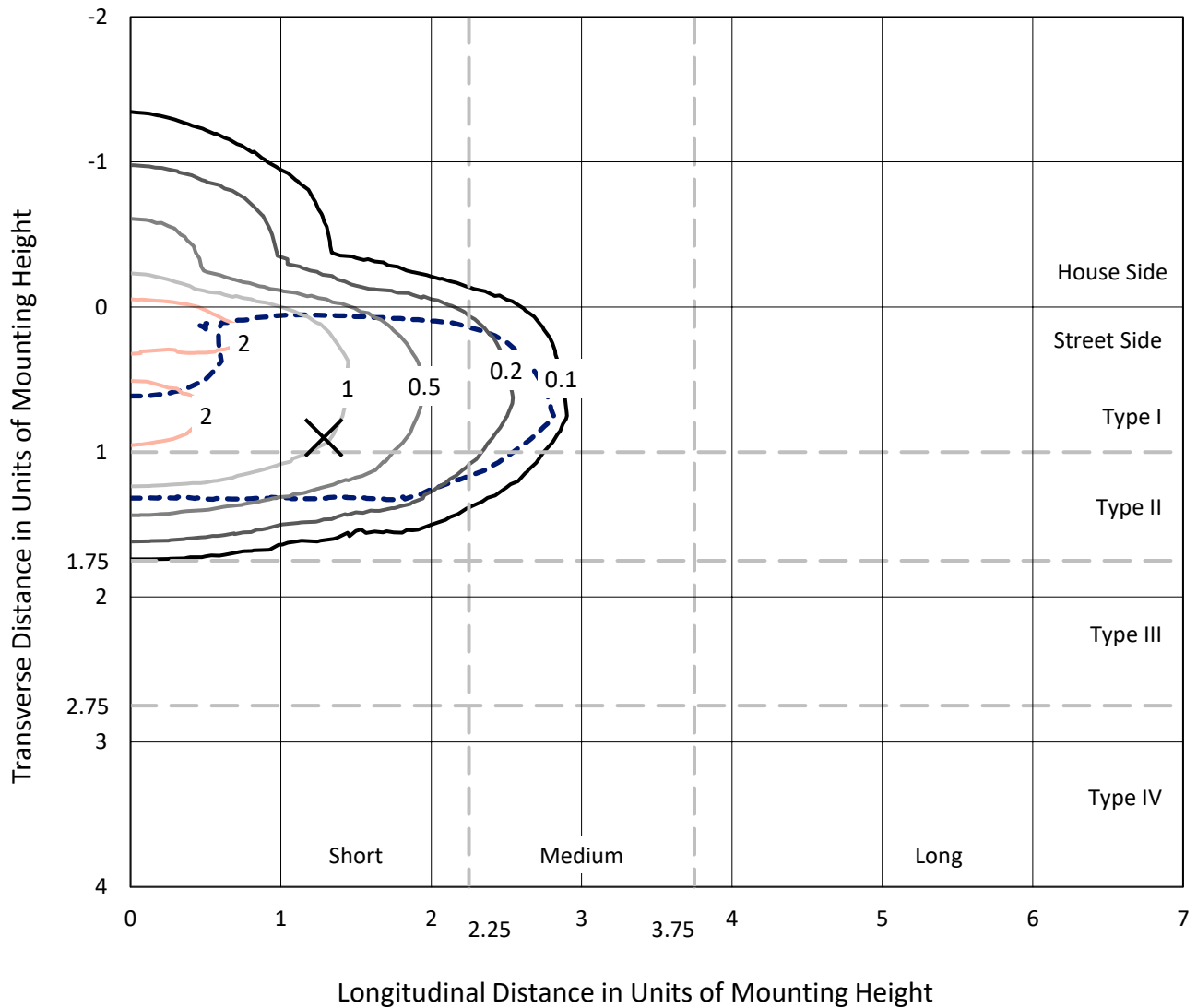
Lumens per Lamp: N/A  
Luminaire Lumens: 6061 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

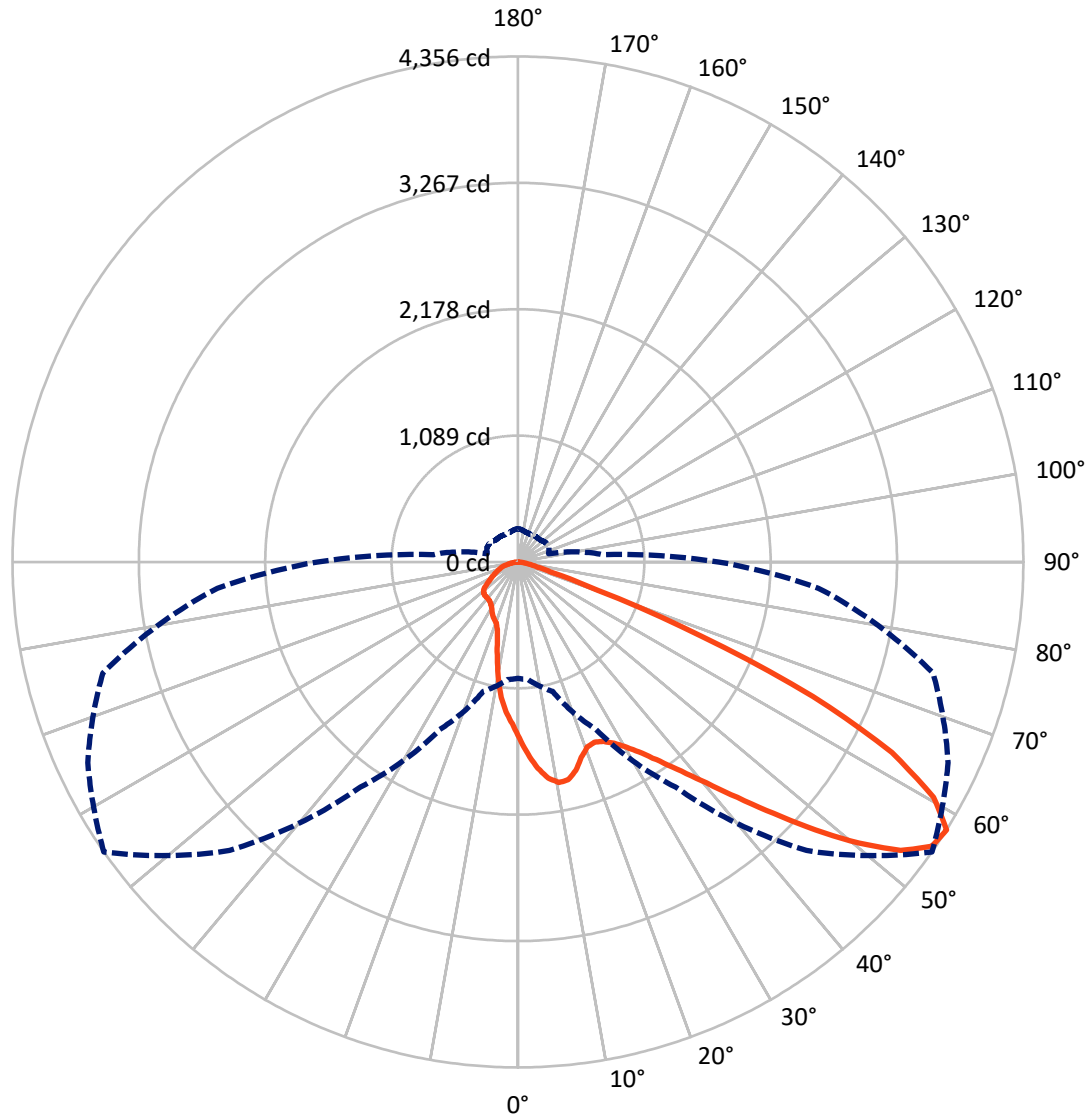
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1096.7	0.0	1096.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4964.3	0.0	4964.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6061.0	0.0	6061.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	2.3
10°-20°	355.7	5.9
20°-30°	567.6	9.4
30°-40°	898.6	14.8
40°-50°	1375.5	22.7
50°-60°	1473.3	24.3
60°-70°	926.8	15.3
70°-80°	274.1	4.5
80°-90°	48.5	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°	6061.0	100.0
0°-180°	6061.0	100.0

**Coefficient of Utilization**



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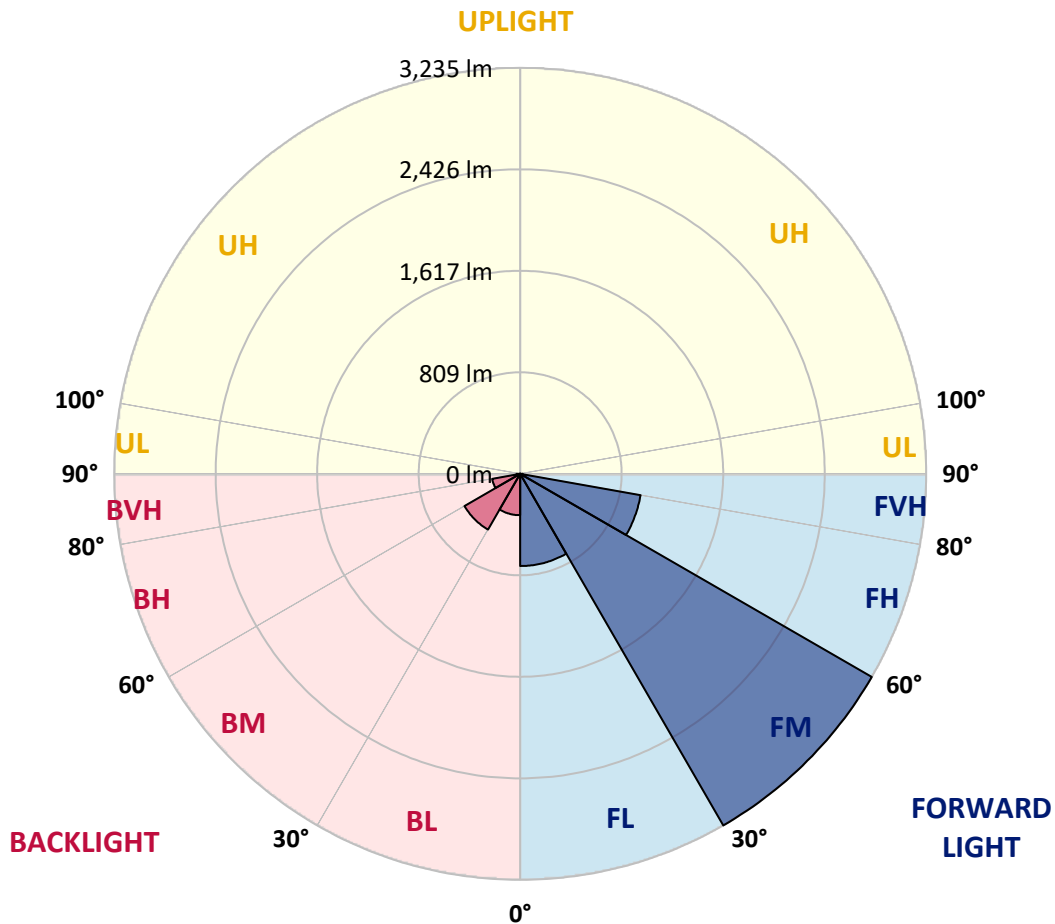
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.6	12.1			
FM (30°-60°)	3234.8	53.4			
FH (60°-80°)	974.4	16.1			G1/1800
FVH (80°-90°)	20.5	0.3			G1/100
BL (0°-30°)	329.6	5.4	B1/500		
BM (30°-60°)	512.6	8.5	B1/1000		
BH (60°-80°)	226.5	3.7	B1/500		G1/500
BVH (80°-90°)	28.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1742.4	1741.2	1748.0	1724.5	1708.6	1686.9	1658.4	1622.1	1582.9	1541.6
5°	1899.4	1888.4	1895.6	1878.1	1860.5	1827.9	1785.6	1726.4	1654.0	1571.6
7.5°	1874.6	1867.1	1885.6	1901.3	1914.4	1910.3	1879.3	1817.3	1723.9	1604.2
10°	1675.0	1666.6	1692.6	1746.8	1826.4	1895.6	1933.2	1894.7	1795.4	1639.9
12.5°	1499.0	1494.9	1512.1	1556.0	1644.3	1777.2	1926.3	1962.4	1869.6	1682.2
15°	1423.8	1418.7	1429.7	1452.0	1508.4	1632.1	1863.7	2008.7	1942.6	1731.1
17.5°	1407.1	1401.5	1406.2	1417.8	1454.1	1548.5	1769.0	2031.6	2018.8	1785.6
20°	1437.9	1433.2	1433.8	1433.2	1458.5	1533.4	1703.2	2022.8	2085.2	1835.8
22.5°	1512.1	1504.3	1504.6	1488.0	1501.8	1559.7	1686.0	1999.3	2144.4	1879.6
25°	1633.1	1619.0	1621.8	1579.5	1575.7	1618.6	1713.0	1981.2	2203.3	1914.7
27.5°	1798.5	1782.5	1774.1	1711.1	1681.0	1702.3	1767.8	1987.4	2259.1	1945.1
30°	2005.3	1985.9	1968.6	1879.3	1824.8	1817.0	1853.0	2028.8	2324.9	1977.1
32.5°	2258.8	2236.2	2204.9	2086.4	2009.7	1968.6	1963.3	2102.4	2402.0	2017.8
35°	2560.5	2531.0	2486.6	2333.3	2236.2	2152.2	2108.7	2208.6	2507.5	2079.2
37.5°	2871.3	2838.1	2797.4	2615.0	2495.6	2371.9	2286.0	2352.8	2648.2	2162.6
40°	3158.0	3120.7	3082.8	2920.5	2792.4	2643.2	2503.2	2535.1	2820.2	2262.2
42.5°	3327.2	3299.6	3285.2	3197.5	3098.5	2947.1	2773.2	2751.3	3013.6	2376.9
45°	3319.7	3308.4	3352.9	3389.2	3365.7	3281.8	3089.7	2990.4	3207.5	2476.2
47.5°	3142.3	3149.9	3249.2	3453.5	3543.4	3587.3	3450.0	3225.1	3376.1	2550.5
50°	2659.8	2666.1	2896.1	3336.6	3589.1	3836.4	3807.5	3454.1	3506.7	2595.9
52.5°	2277.9	2282.0	2380.6	2990.1	3438.1	3961.7	4129.6	3670.0	3602.3	2608.4
55°	1715.8	1729.9	1840.5	2345.9	3045.2	3862.4	4325.8	3892.4	3662.8	2609.7
57.5°	1002.3	1017.7	1154.3	1592.3	2366.9	3516.1	4355.5	4089.8	3703.8	2599.7
60°	491.0	497.6	557.1	836.9	1459.5	2849.1	4116.2	4185.4	3726.7	2594.3
62.5°	330.9	329.9	332.4	413.0	719.1	1830.4	3617.3	4018.1	3714.5	2574.0
65°	284.5	281.1	271.7	289.8	372.5	837.2	2794.9	3518.6	3621.4	2522.9
67.5°	246.0	246.3	246.6	240.9	266.0	386.3	1707.9	2771.7	3287.4	2281.0
70°	203.7	206.5	207.7	207.7	216.8	253.5	729.1	1899.7	2593.1	1788.5
72.5°	185.5	179.5	180.2	177.0	177.0	193.0	293.6	1076.9	1633.7	1006.1
75°	151.3	155.1	155.7	153.5	146.3	147.3	174.2	451.8	699.0	417.3
77.5°	130.7	130.7	131.9	130.3	124.7	110.3	116.2	175.1	237.8	171.1
80°	105.0	104.7	110.0	113.1	104.3	81.5	74.3	96.8	105.6	75.2
82.5°	51.1	54.2	75.5	86.2	79.3	58.9	45.4	60.2	56.4	33.2
85°	29.8	28.2	33.8	47.9	45.4	32.6	21.9	31.3	29.5	16.9
87.5°	9.4	8.8	6.9	16.3	13.2	9.1	6.0	9.1	8.1	3.8
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°
1518.7	0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
1523.7	2.5°	1501.5	1464.5	1427.8	1394.3	1373.9	1360.8	1347.6	1332.9	1327.2	1318.8
1527.8	5°	1486.4	1415.0	1351.4	1296.5	1246.7	1207.6	1168.1	1136.1	1121.7	1131.4
1540.6	7.5°	1477.6	1374.2	1276.2	1175.6	1078.8	1001.4	934.0	886.7	865.4	870.7
1553.2	10°	1469.8	1328.2	1178.7	1019.9	880.8	784.9	715.9	679.9	666.4	669.3
1570.1	12.5°	1462.6	1276.5	1061.2	852.2	704.4	641.1	621.3	621.6	624.1	626.0
1597.0	15°	1461.4	1214.1	930.0	705.6	609.1	605.0	626.3	639.8	647.0	649.2
1619.6	17.5°	1459.5	1139.6	796.2	605.7	585.9	613.5	633.2	642.0	647.6	648.0
1641.5	20°	1452.0	1044.9	672.7	558.0	580.9	604.7	616.9	623.8	628.5	630.1
1658.1	22.5°	1428.8	939.7	576.5	536.7	560.9	580.0	594.4	602.2	605.0	606.9
1661.3	25°	1387.1	821.9	510.1	516.4	533.0	557.1	568.7	570.3	569.3	572.1
1653.4	27.5°	1332.6	695.6	468.7	488.8	510.1	530.8	537.0	536.1	534.2	537.4
1639.9	30°	1266.8	582.2	442.4	457.8	486.9	505.7	511.3	509.2	505.4	508.8
1633.1	32.5°	1197.2	489.4	420.8	436.1	467.8	486.3	491.9	489.7	486.9	489.7
1640.9	35°	1132.4	424.6	400.7	421.7	452.8	470.9	478.1	478.4	478.4	481.9
1661.6	37.5°	1072.8	386.6	384.1	412.7	442.4	458.7	469.0	469.7	456.2	457.1
1696.7	40°	1017.7	370.7	376.6	406.7	432.4	448.1	448.7	413.6	388.8	388.2
1736.8	42.5°	972.6	367.5	378.8	406.1	425.2	425.8	381.6	354.4	347.5	347.8
1773.7	45°	930.3	366.6	383.8	406.1	414.5	367.8	338.1	330.9	331.5	334.0
1790.3	47.5°	883.0	362.8	384.8	400.4	383.8	327.1	318.3	315.2	314.0	314.6
1786.6	50°	831.3	349.4	372.9	389.2	331.2	309.6	298.6	297.7	299.2	300.2
1765.6	52.5°	776.7	327.4	352.5	368.8	307.1	294.2	282.0	284.2	291.1	293.3
1743.7	55°	741.0	301.7	325.5	328.1	290.1	279.8	269.5	274.5	287.3	291.4
1730.5	57.5°	731.6	274.5	294.8	292.0	268.5	267.3	261.0	265.4	281.7	287.6
1729.9	60°	728.8	250.0	264.8	262.6	247.5	253.5	251.9	254.1	259.7	261.6
1723.6	62.5°	706.9	230.6	237.8	234.7	228.7	239.1	242.8	238.1	242.5	244.7
1680.7	65°	651.1	214.9	211.5	209.3	211.8	221.2	228.7	219.3	223.4	229.7
1515.2	67.5°	559.0	193.6	184.2	186.7	194.6	199.6	209.3	198.6	202.1	212.7
1220.4	70°	452.1	166.7	158.2	165.4	173.0	183.3	184.9	177.7	185.8	197.7
744.8	72.5°	319.9	139.4	133.5	148.2	150.7	164.2	160.7	157.3	168.6	172.6
368.2	75°	221.8	112.5	109.0	120.3	129.4	141.0	138.5	142.6	166.4	168.3
183.9	77.5°	140.4	87.4	85.2	92.4	105.0	117.8	121.9	168.3	284.2	295.5
95.6	80°	81.5	65.2	62.7	68.3	79.3	91.2	117.5	206.5	187.4	185.2
42.9	82.5°	45.4	44.8	41.7	43.2	53.0	65.8	166.1	145.4	118.1	121.9
17.2	85°	21.3	26.3	22.6	21.6	29.8	77.1	110.9	83.0	55.1	53.9
3.8	87.5°	5.6	5.0	5.0	5.6	12.5	66.4	44.2	35.4	21.0	20.4
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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