

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: P945358

Luminaire Tested: **GALN-SB1B-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945358  
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-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

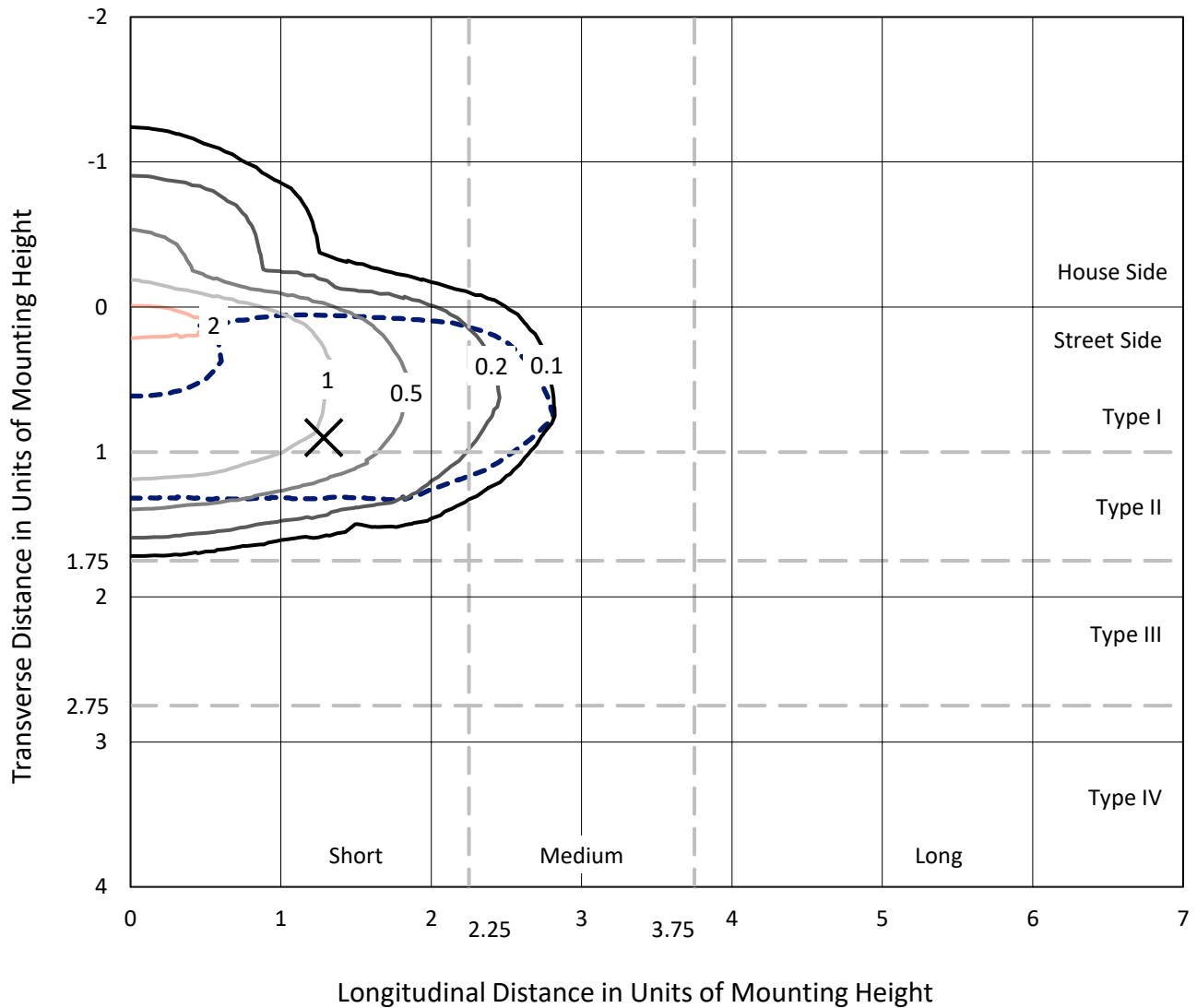
Lumens per Lamp: N/A  
Luminaire Lumens: 5148 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

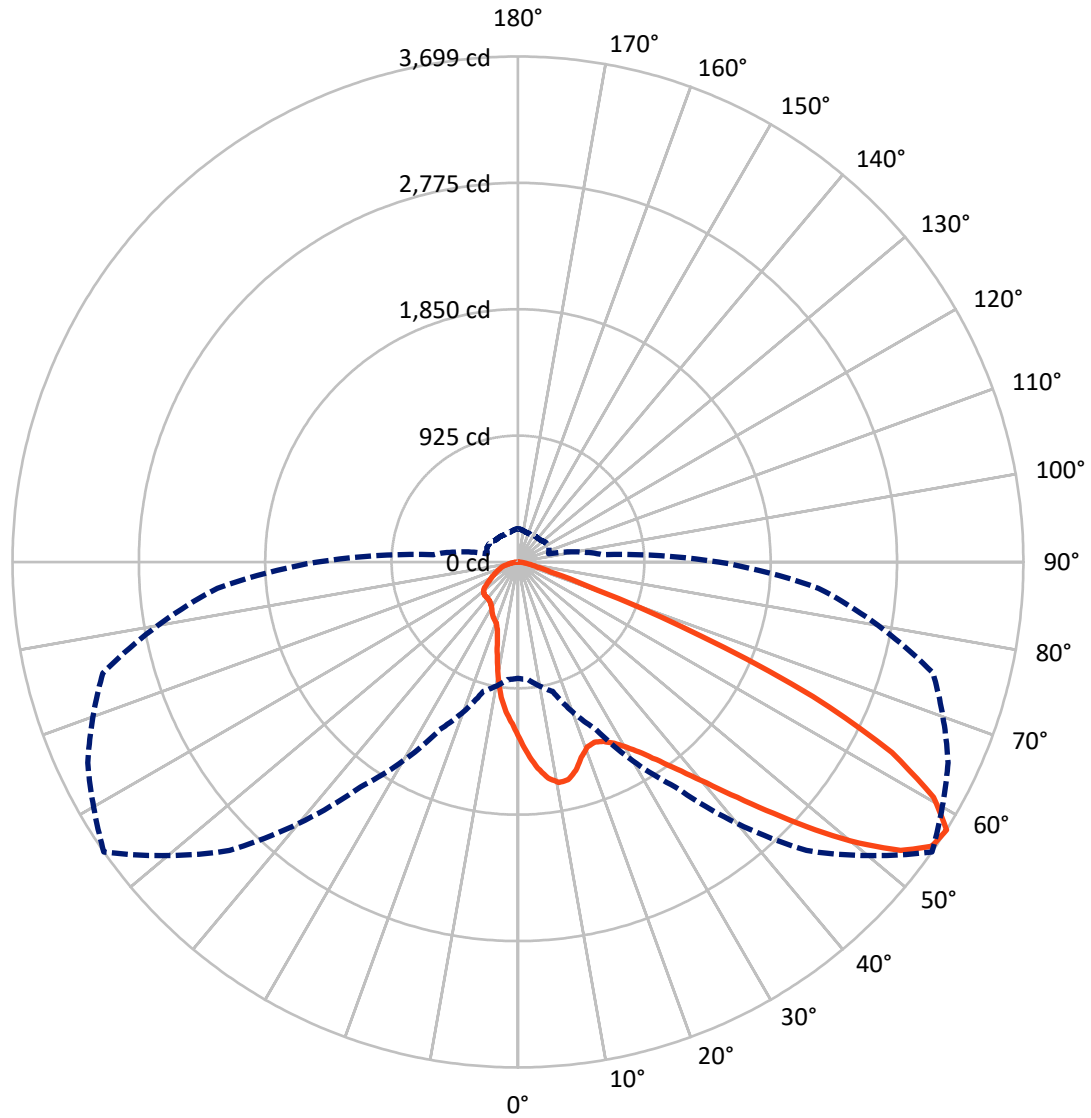
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
<b>House Side</b>	Lumens	931.5	0.0	931.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4216.5	0.0	4216.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	5148.0	0.0	5148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	2.3
10°-20°	302.1	5.9
20°-30°	482.1	9.4
30°-40°	763.3	14.8
40°-50°	1168.3	22.7
50°-60°	1251.3	24.3
60°-70°	787.2	15.3
70°-80°	232.8	4.5
80°-90°	41.2	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°	5148.0	100.0
0°-180°	5148.0	100.0

**Coefficient of Utilization**



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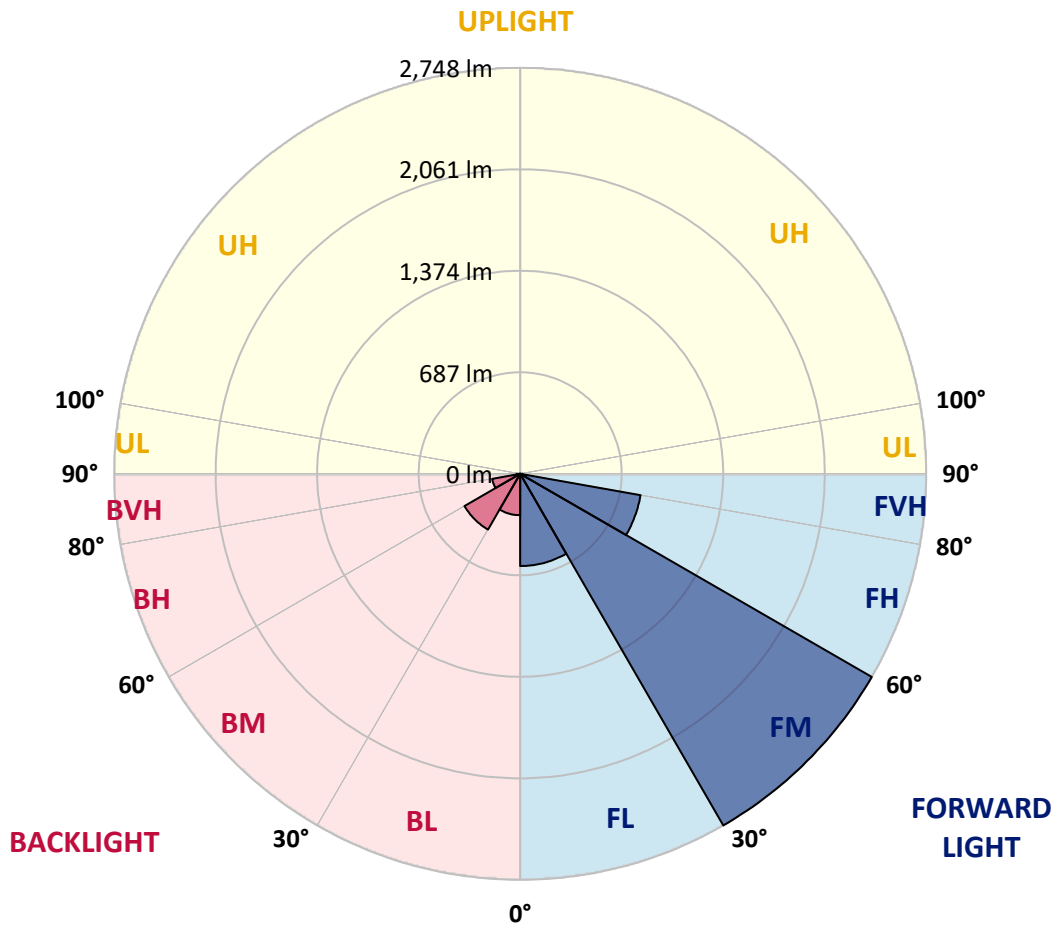
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.9	12.1			
FM (30°-60°)	2747.5	53.4			
FH (60°-80°)	827.6	16.1			G1/1800
FVH (80°-90°)	17.4	0.3			G1/100
BL (0°-30°)	280.0	5.4	B1/500		
BM (30°-60°)	435.4	8.5	B1/1000		
BH (60°-80°)	192.4	3.7	B1/500		G1/500
BVH (80°-90°)	23.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9
2.5°	1479.9	1478.9	1484.7	1464.8	1451.2	1432.8	1408.6	1377.7	1344.5	1309.3
5°	1613.3	1604.0	1610.1	1595.2	1580.3	1552.6	1516.7	1466.4	1404.9	1334.9
7.5°	1592.2	1585.9	1601.6	1614.9	1626.0	1622.6	1596.2	1543.5	1464.2	1362.6
10°	1422.7	1415.5	1437.6	1483.7	1551.3	1610.1	1642.0	1609.3	1524.9	1392.9
12.5°	1273.2	1269.7	1284.3	1321.6	1396.6	1509.5	1636.2	1666.8	1588.0	1428.8
15°	1209.3	1205.0	1214.3	1233.2	1281.1	1386.3	1582.9	1706.1	1650.0	1470.4
17.5°	1195.2	1190.4	1194.4	1204.2	1235.1	1315.2	1502.6	1725.6	1714.7	1516.7
20°	1221.3	1217.3	1217.8	1217.3	1238.8	1302.4	1446.7	1718.1	1771.1	1559.2
22.5°	1284.3	1277.7	1277.9	1263.8	1275.6	1324.8	1432.0	1698.2	1821.4	1596.5
25°	1387.1	1375.1	1377.5	1341.6	1338.4	1374.8	1454.9	1682.7	1871.4	1626.3
27.5°	1527.6	1514.0	1506.8	1453.3	1427.8	1445.9	1501.5	1688.0	1918.8	1652.1
30°	1703.2	1686.7	1672.1	1596.2	1549.9	1543.3	1573.9	1723.2	1974.7	1679.3
32.5°	1918.5	1899.4	1872.7	1772.1	1706.9	1672.1	1667.6	1785.7	2040.1	1713.9
35°	2174.8	2149.8	2112.0	1981.9	1899.4	1828.0	1791.0	1875.9	2129.8	1766.0
37.5°	2438.8	2410.6	2376.0	2221.1	2119.7	2014.6	1941.7	1998.4	2249.3	1836.8
40°	2682.3	2650.6	2618.4	2480.6	2371.7	2245.1	2126.1	2153.2	2395.4	1921.4
42.5°	2826.0	2802.6	2790.4	2715.8	2631.7	2503.2	2355.5	2336.9	2559.6	2018.8
45°	2819.6	2810.0	2847.8	2878.7	2858.7	2787.4	2624.3	2539.9	2724.4	2103.2
47.5°	2669.0	2675.4	2759.7	2933.3	3009.6	3046.9	2930.3	2739.3	2867.5	2166.3
50°	2259.2	2264.5	2459.8	2834.0	3048.5	3258.5	3234.0	2933.8	2978.5	2204.9
52.5°	1934.7	1938.2	2022.0	2539.7	2920.2	3364.9	3507.6	3117.2	3059.7	2215.5
55°	1457.3	1469.3	1563.2	1992.5	2586.5	3280.6	3674.2	3306.1	3111.0	2216.6
57.5°	851.3	864.4	980.4	1352.5	2010.3	2986.5	3699.4	3473.8	3145.9	2208.1
60°	417.0	422.6	473.2	710.8	1239.6	2419.9	3496.1	3554.9	3165.3	2203.5
62.5°	281.0	280.2	282.4	350.8	610.8	1554.7	3072.4	3412.8	3154.9	2186.2
65°	241.6	238.7	230.7	246.2	316.4	711.1	2373.9	2988.6	3075.9	2142.9
67.5°	208.9	209.2	209.4	204.7	225.9	328.1	1450.7	2354.2	2792.2	1937.4
70°	173.0	175.4	176.4	176.4	184.2	215.3	619.3	1613.5	2202.5	1519.1
72.5°	157.5	152.5	153.0	150.4	150.4	163.9	249.4	914.7	1387.6	854.5
75°	128.5	131.7	132.3	130.4	124.3	125.1	148.0	383.8	593.7	354.5
77.5°	111.0	111.0	112.0	110.7	105.9	93.7	98.7	148.8	202.0	145.3
80°	89.2	88.9	93.4	96.1	88.6	69.2	63.1	82.2	89.7	63.9
82.5°	43.4	46.0	64.1	73.2	67.3	50.0	38.6	51.1	47.9	28.2
85°	25.3	24.0	28.7	40.7	38.6	27.7	18.6	26.6	25.0	14.4
87.5°	8.0	7.5	5.9	13.8	11.2	7.7	5.1	7.7	6.9	3.2
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°
1289.9	0°	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9	1289.9
1294.2	2.5°	1275.3	1243.9	1212.7	1184.3	1167.0	1155.8	1144.6	1132.1	1127.3	1120.1
1297.6	5°	1262.5	1201.8	1147.8	1101.2	1058.9	1025.7	992.1	965.0	952.7	961.0
1308.6	7.5°	1255.1	1167.2	1083.9	998.5	916.3	850.5	793.3	753.1	735.0	739.6
1319.2	10°	1248.4	1128.1	1001.2	866.2	748.1	666.7	608.1	577.5	566.1	568.4
1333.6	12.5°	1242.3	1084.2	901.4	723.9	598.3	544.5	527.7	528.0	530.1	531.7
1356.5	15°	1241.2	1031.2	789.9	599.3	517.4	513.9	532.0	543.4	549.6	551.4
1375.6	17.5°	1239.6	967.9	676.2	514.4	497.7	521.1	537.8	545.3	550.1	550.4
1394.2	20°	1233.2	887.5	571.4	474.0	493.4	513.6	524.0	529.9	533.9	535.2
1408.3	22.5°	1213.5	798.1	489.7	455.9	476.4	492.6	504.8	511.5	513.9	515.5
1411.0	25°	1178.1	698.1	433.3	438.6	452.7	473.2	483.0	484.4	483.6	485.9
1404.4	27.5°	1131.8	590.8	398.1	415.2	433.3	450.8	456.1	455.3	453.7	456.4
1392.9	30°	1076.0	494.5	375.8	388.8	413.6	429.5	434.3	432.5	429.3	432.2
1387.1	32.5°	1016.9	415.7	357.4	370.4	397.3	413.0	417.8	416.0	413.6	416.0
1393.7	35°	961.8	360.6	340.4	358.2	384.6	400.0	406.1	406.4	406.4	409.3
1411.3	37.5°	911.2	328.4	326.3	350.5	375.8	389.6	398.4	398.9	387.5	388.3
1441.1	40°	864.4	314.8	319.9	345.4	367.3	380.6	381.1	351.3	330.3	329.7
1475.1	42.5°	826.1	312.2	321.7	344.9	361.1	361.7	324.1	301.0	295.1	295.4
1506.5	45°	790.1	311.4	326.0	344.9	352.1	312.4	287.2	281.0	281.6	283.7
1520.7	47.5°	749.9	308.2	326.8	340.1	326.0	277.8	270.4	267.7	266.7	267.2
1517.5	50°	706.0	296.7	316.7	330.5	281.3	262.9	253.6	252.8	254.2	255.0
1499.6	52.5°	659.7	278.1	299.4	313.2	260.8	249.9	239.5	241.4	247.2	249.1
1481.0	55°	629.4	256.3	276.5	278.6	246.4	237.7	228.9	233.1	244.0	247.5
1469.8	57.5°	621.4	233.1	250.4	248.0	228.1	227.0	221.7	225.4	239.2	244.3
1469.3	60°	619.0	212.4	224.9	223.0	210.2	215.3	214.0	215.8	220.6	222.2
1464.0	62.5°	600.4	195.9	202.0	199.3	194.3	203.1	206.2	202.3	206.0	207.8
1427.5	65°	553.0	182.6	179.6	177.8	179.9	187.9	194.3	186.3	189.7	195.1
1287.0	67.5°	474.8	164.5	156.5	158.6	165.3	169.5	177.8	168.7	171.7	180.7
1036.6	70°	384.0	141.6	134.4	140.5	146.9	155.7	157.0	150.9	157.8	167.9
632.6	72.5°	271.7	118.4	113.4	125.9	128.0	139.5	136.5	133.6	143.2	146.6
312.7	75°	188.4	95.5	92.6	102.2	109.9	119.8	117.6	121.1	141.3	142.9
156.2	77.5°	119.2	74.2	72.4	78.5	89.2	100.1	103.5	142.9	241.4	251.0
81.2	80°	69.2	55.4	53.2	58.0	67.3	77.4	99.8	175.4	159.1	157.3
36.5	82.5°	38.6	38.1	35.4	36.7	45.0	55.9	141.0	123.5	100.3	103.5
14.6	85°	18.1	22.4	19.2	18.4	25.3	65.5	94.2	70.5	46.8	45.8
3.2	87.5°	4.8	4.3	4.3	4.8	10.6	56.4	37.5	30.1	17.8	17.3
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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