

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: P946156

Luminaire Tested: **GALN-SB1D-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946156  
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-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

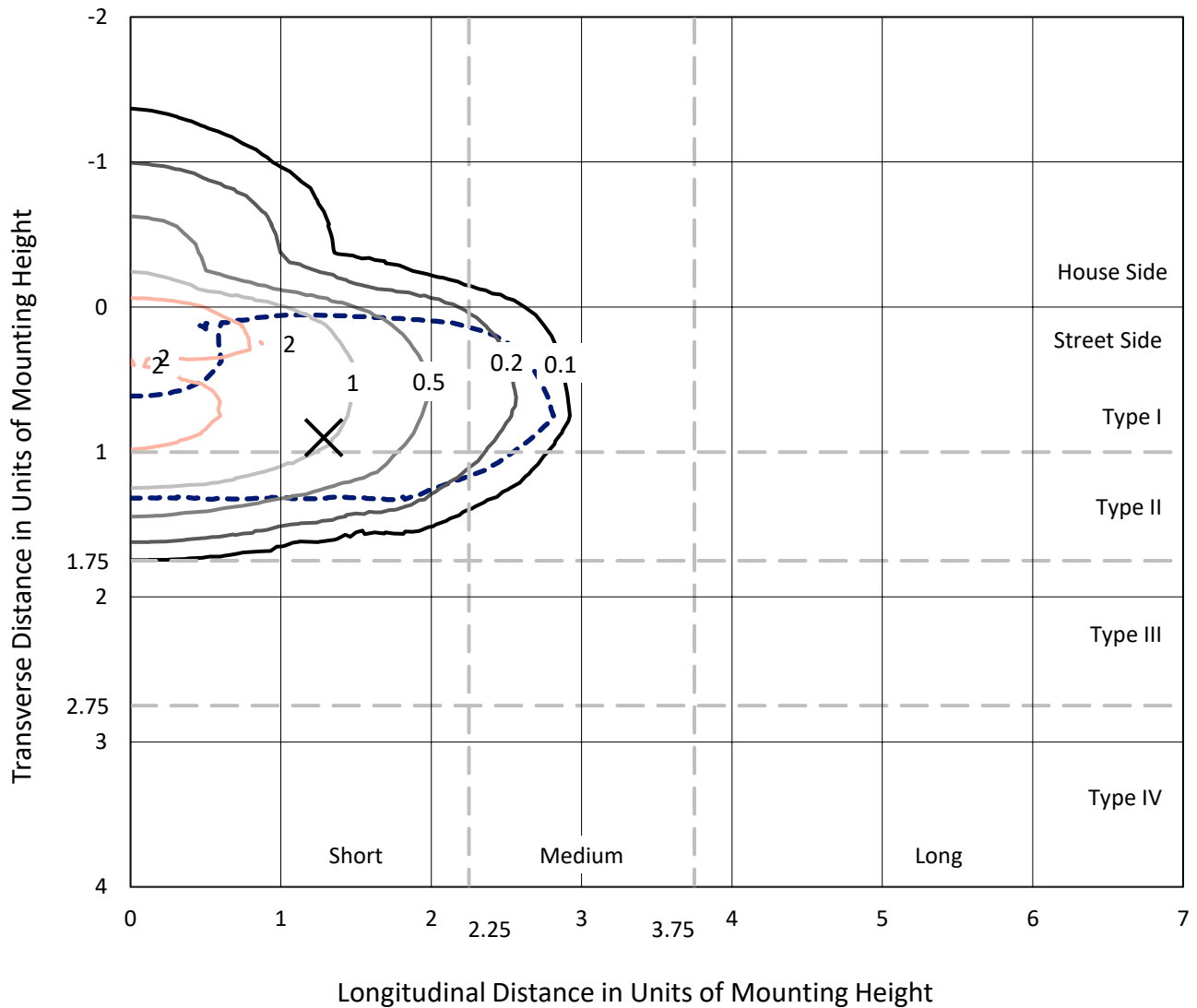
Lumens per Lamp: N/A  
Luminaire Lumens: 6302 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

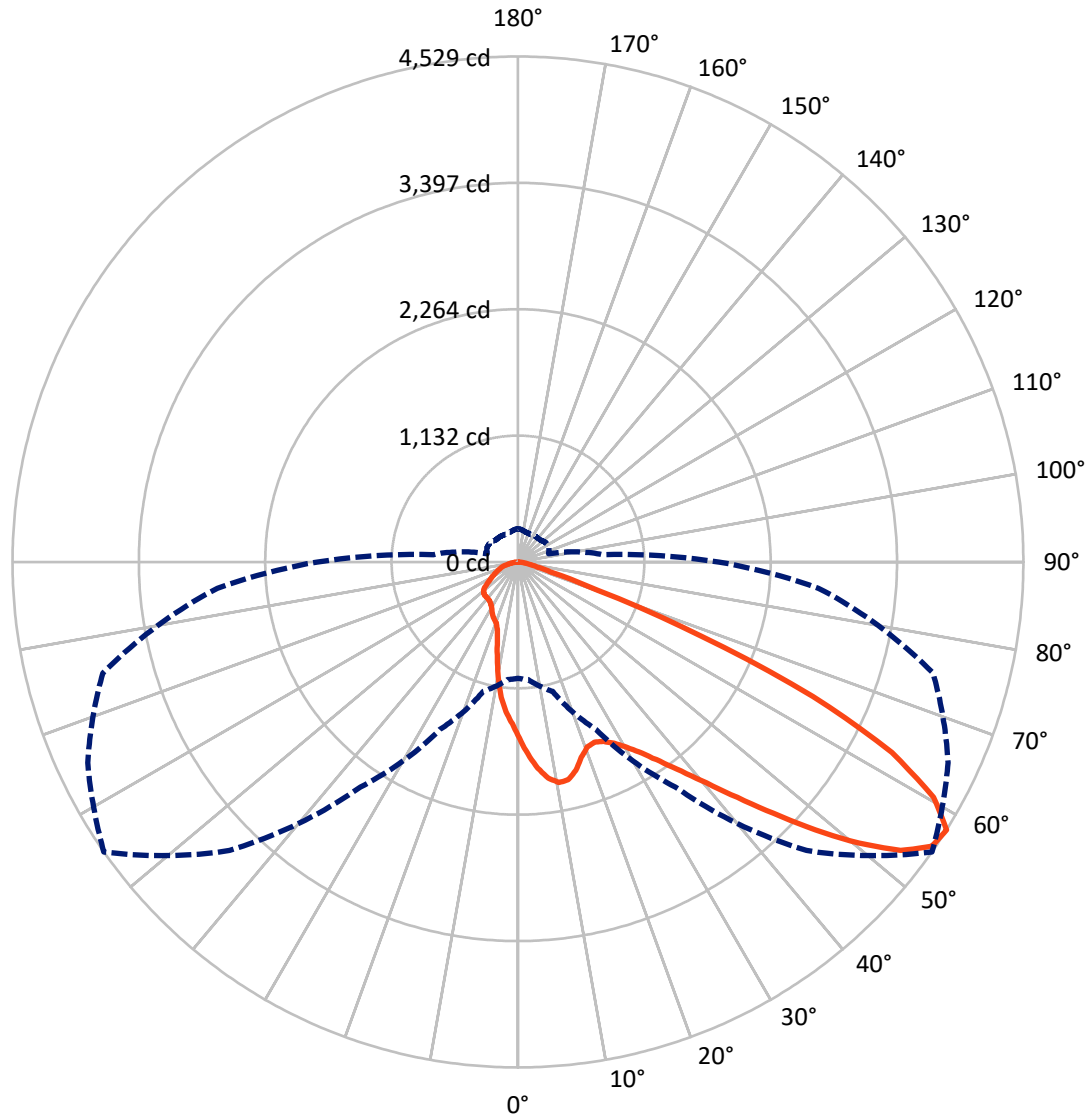
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1140.3	0.0	1140.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5161.7	0.0	5161.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6302.0	0.0	6302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	2.3
10°-20°	369.8	5.9
20°-30°	590.2	9.4
30°-40°	934.4	14.8
40°-50°	1430.2	22.7
50°-60°	1531.8	24.3
60°-70°	963.7	15.3
70°-80°	285.0	4.5
80°-90°	50.4	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°	6302.0	100.0
0°-180°	6302.0	100.0

**Coefficient of Utilization**



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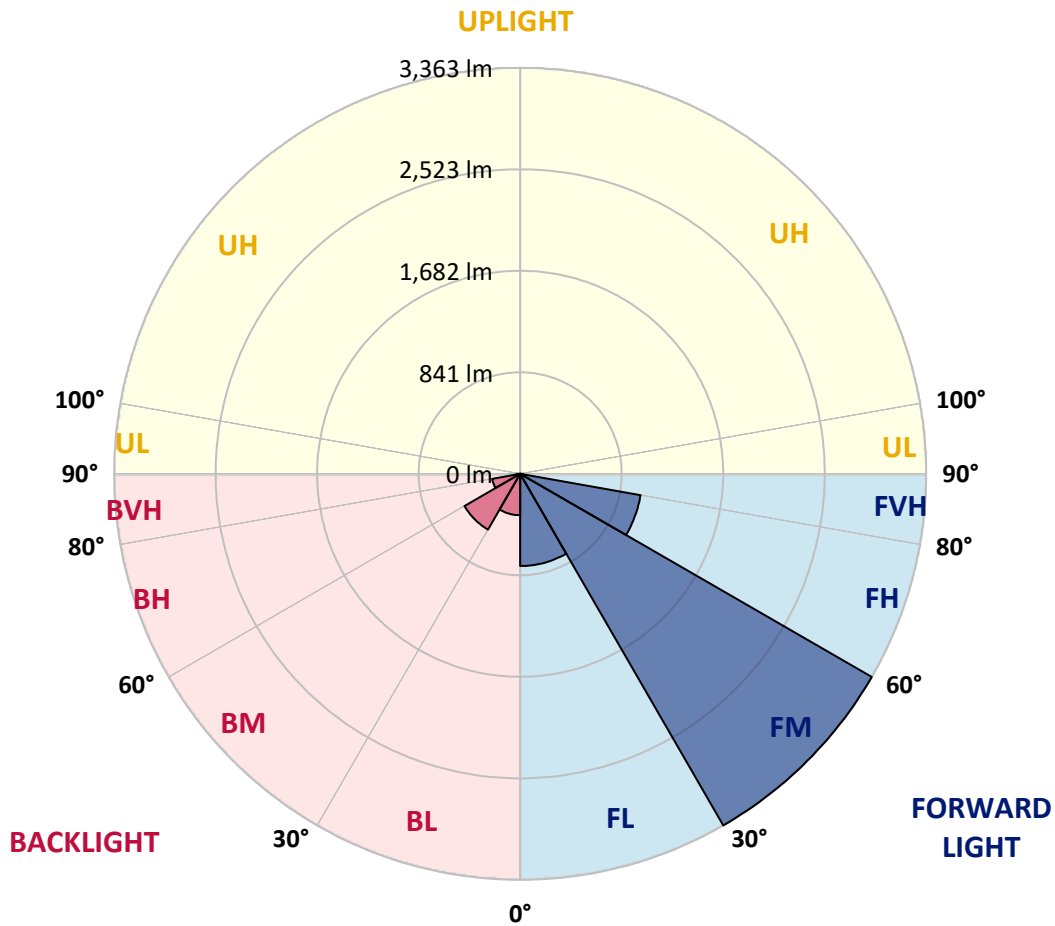
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.8	12.1			
FM (30°-60°)	3363.4	53.4			
FH (60°-80°)	1013.2	16.1			G1/1800
FVH (80°-90°)	21.3	0.3			G1/100
BL (0°-30°)	342.7	5.4	B1/500		
BM (30°-60°)	533.0	8.5	B1/1000		
BH (60°-80°)	235.5	3.7	B1/500		G1/500
BVH (80°-90°)	29.1	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°	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1
2.5°	1811.7	1810.4	1817.6	1793.1	1776.5	1754.0	1724.4	1686.6	1645.9	1602.9
5°	1974.9	1963.5	1971.0	1952.8	1934.5	1900.6	1856.6	1795.1	1719.8	1634.1
7.5°	1949.2	1941.3	1960.6	1976.9	1990.5	1986.3	1954.1	1889.5	1792.5	1668.0
10°	1741.6	1732.8	1759.9	1816.2	1899.0	1971.0	2010.1	1970.0	1866.7	1705.2
12.5°	1558.6	1554.3	1572.2	1617.8	1709.7	1847.8	2002.9	2040.4	1944.0	1749.1
15°	1480.4	1475.2	1486.6	1509.7	1568.3	1697.0	1937.8	2088.6	2019.9	1800.0
17.5°	1463.1	1457.2	1462.1	1474.2	1512.0	1610.0	1839.4	2112.4	2099.0	1856.6
20°	1495.0	1490.1	1490.8	1490.1	1516.5	1594.4	1771.0	2103.3	2168.1	1908.8
22.5°	1572.2	1564.1	1564.4	1547.1	1561.5	1621.8	1753.0	2078.8	2229.7	1954.4
25°	1698.0	1683.3	1686.3	1642.3	1638.4	1683.0	1781.1	2059.9	2290.9	1990.9
27.5°	1870.0	1853.4	1844.6	1779.1	1747.8	1770.0	1838.1	2066.4	2348.9	2022.5
30°	2085.0	2064.8	2046.9	1954.1	1897.4	1889.2	1926.7	2109.5	2417.3	2055.7
32.5°	2348.6	2325.1	2292.5	2169.4	2089.6	2046.9	2041.4	2186.0	2497.5	2098.1
35°	2662.3	2631.7	2585.4	2426.1	2325.1	2237.8	2192.5	2296.5	2607.3	2161.9
37.5°	2985.5	2951.0	2908.6	2719.0	2594.9	2466.2	2376.9	2446.3	2753.5	2248.6
40°	3283.6	3244.8	3205.4	3036.6	2903.4	2748.3	2602.7	2635.9	2932.4	2352.2
42.5°	3459.5	3430.8	3415.8	3324.6	3221.7	3064.3	2883.5	2860.7	3133.4	2471.4
45°	3451.7	3440.0	3486.2	3524.0	3499.6	3412.3	3212.6	3109.3	3335.1	2574.7
47.5°	3267.3	3275.1	3378.4	3590.8	3684.3	3729.9	3587.2	3353.3	3510.3	2651.9
50°	2765.6	2772.1	3011.2	3469.3	3731.9	3988.9	3958.9	3591.4	3646.2	2699.1
52.5°	2368.5	2372.7	2475.3	3109.0	3574.8	4119.2	4293.8	3815.9	3745.5	2712.2
55°	1784.0	1798.7	1913.7	2439.1	3166.3	4015.9	4497.8	4047.2	3808.4	2713.5
57.5°	1042.2	1058.1	1200.2	1655.6	2461.0	3656.0	4528.7	4252.5	3851.1	2703.0
60°	510.5	517.3	579.2	870.2	1517.5	2962.4	4279.8	4351.8	3874.9	2697.5
62.5°	344.0	343.1	345.7	429.4	747.7	1903.2	3761.2	4177.9	3862.2	2676.3
65°	295.8	292.2	282.5	301.4	387.4	870.5	2906.0	3658.6	3765.4	2623.2
67.5°	255.7	256.1	256.4	250.5	276.6	401.7	1775.9	2881.9	3418.1	2371.7
70°	211.8	214.7	216.0	216.0	225.4	263.6	758.1	1975.2	2696.2	1859.6
72.5°	192.9	186.7	187.3	184.1	184.1	200.7	305.3	1119.7	1698.6	1046.1
75°	157.4	161.3	161.9	159.6	152.1	153.1	181.1	469.8	726.8	433.9
77.5°	135.9	135.9	137.2	135.5	129.7	114.7	120.9	182.1	247.3	177.9
80°	109.1	108.8	114.4	117.6	108.5	84.7	77.2	100.7	109.8	78.2
82.5°	53.1	56.4	78.5	89.6	82.4	61.2	47.2	62.6	58.6	34.5
85°	30.9	29.3	35.2	49.8	47.2	33.9	22.8	32.6	30.6	17.6
87.5°	9.8	9.1	7.2	16.9	13.7	9.4	6.2	9.4	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°
1579.1	0°	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1
1584.3	2.5°	1561.2	1522.7	1484.6	1449.7	1428.6	1414.9	1401.2	1385.9	1380.0	1371.2
1588.5	5°	1545.5	1471.2	1405.1	1348.1	1296.3	1255.6	1214.5	1181.3	1166.3	1176.4
1601.9	7.5°	1536.4	1428.9	1326.9	1222.3	1121.7	1041.2	971.2	922.0	899.8	905.4
1614.9	10°	1528.3	1381.0	1225.6	1060.4	915.8	816.1	744.4	707.0	692.9	695.9
1632.5	12.5°	1520.8	1327.2	1103.4	886.1	732.4	666.6	646.0	646.4	649.0	650.9
1660.5	15°	1519.5	1262.4	966.9	733.7	633.3	629.1	651.2	665.3	672.7	675.0
1684.0	17.5°	1517.5	1184.9	827.8	629.7	609.2	637.9	658.4	667.5	673.4	673.7
1706.8	20°	1509.7	1086.5	699.5	580.2	604.0	628.8	641.5	648.6	653.5	655.2
1724.1	22.5°	1485.6	977.0	599.4	558.1	583.2	603.0	618.0	626.2	629.1	631.0
1727.3	25°	1442.2	854.5	530.4	536.9	554.2	579.2	591.3	592.9	592.0	594.9
1719.2	27.5°	1385.6	723.2	487.4	508.2	530.4	551.9	558.4	557.4	555.5	558.7
1705.2	30°	1317.1	605.3	460.0	476.0	506.3	525.8	531.7	529.4	525.5	529.1
1698.0	32.5°	1244.8	508.9	437.5	453.5	486.4	505.6	511.5	509.2	506.3	509.2
1706.1	35°	1177.4	441.4	416.7	438.5	470.8	489.7	497.1	497.5	497.5	501.1
1727.6	37.5°	1115.5	402.0	399.4	429.1	460.0	476.9	487.7	488.4	474.3	475.3
1764.1	40°	1058.1	385.4	391.6	422.9	449.6	465.9	466.5	430.0	404.3	403.6
1805.8	42.5°	1011.2	382.1	393.9	422.2	442.1	442.7	396.8	368.5	361.3	361.6
1844.3	45°	967.3	381.2	399.1	422.2	431.0	382.5	351.5	344.0	344.7	347.3
1861.5	47.5°	918.1	377.3	400.1	416.4	399.1	340.1	331.0	327.7	326.4	327.1
1857.6	50°	864.3	363.2	387.7	404.6	344.4	321.9	310.5	309.5	311.1	312.1
1835.8	52.5°	807.6	340.4	366.5	383.4	319.3	305.9	293.2	295.5	302.7	304.9
1813.0	55°	770.5	313.7	338.5	341.1	301.7	290.9	280.2	285.4	298.7	303.0
1799.3	57.5°	760.7	285.4	306.6	303.6	279.2	277.9	271.4	275.9	292.9	299.1
1798.7	60°	757.8	260.0	275.3	273.0	257.4	263.6	261.9	264.2	270.1	272.0
1792.1	62.5°	735.0	239.8	247.3	244.0	237.8	248.6	252.5	247.6	252.2	254.4
1747.5	65°	677.0	223.5	219.9	217.6	220.2	230.0	237.8	228.0	232.3	238.8
1575.5	67.5°	581.2	201.3	191.6	194.2	202.3	207.5	217.6	206.5	210.1	221.2
1268.9	70°	470.1	173.3	164.5	172.0	179.8	190.6	192.2	184.7	193.2	205.6
774.4	72.5°	332.6	145.0	138.8	154.1	156.7	170.7	167.1	163.5	175.3	179.5
382.8	75°	230.7	117.0	113.4	125.1	134.5	146.6	144.0	148.2	173.0	174.9
191.2	77.5°	146.0	90.9	88.6	96.1	109.1	122.5	126.7	174.9	295.5	307.2
99.4	80°	84.7	67.8	65.2	71.0	82.4	94.8	122.2	214.7	194.8	192.5
44.6	82.5°	47.2	46.6	43.3	45.0	55.1	68.4	172.7	151.2	122.8	126.7
17.9	85°	22.2	27.4	23.5	22.5	30.9	80.1	115.3	86.3	57.3	56.0
3.9	87.5°	5.9	5.2	5.2	5.9	13.0	69.1	45.9	36.8	21.8	21.2
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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