

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: P945001

Luminaire Tested: **GALN-SB1A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945001
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-SB1A-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101 lumens
Efficiency: N/A
Efficacy: 132.7 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

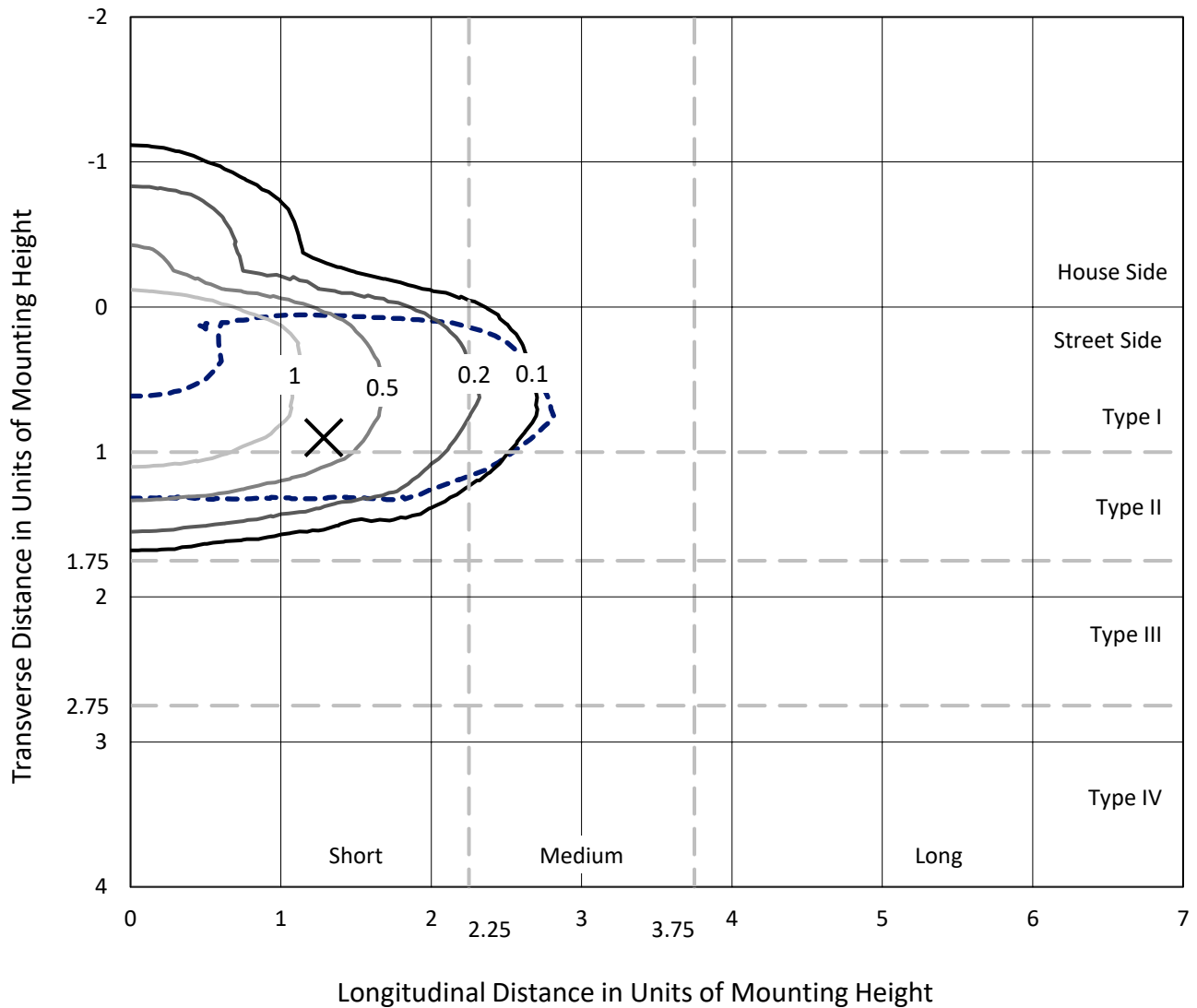
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

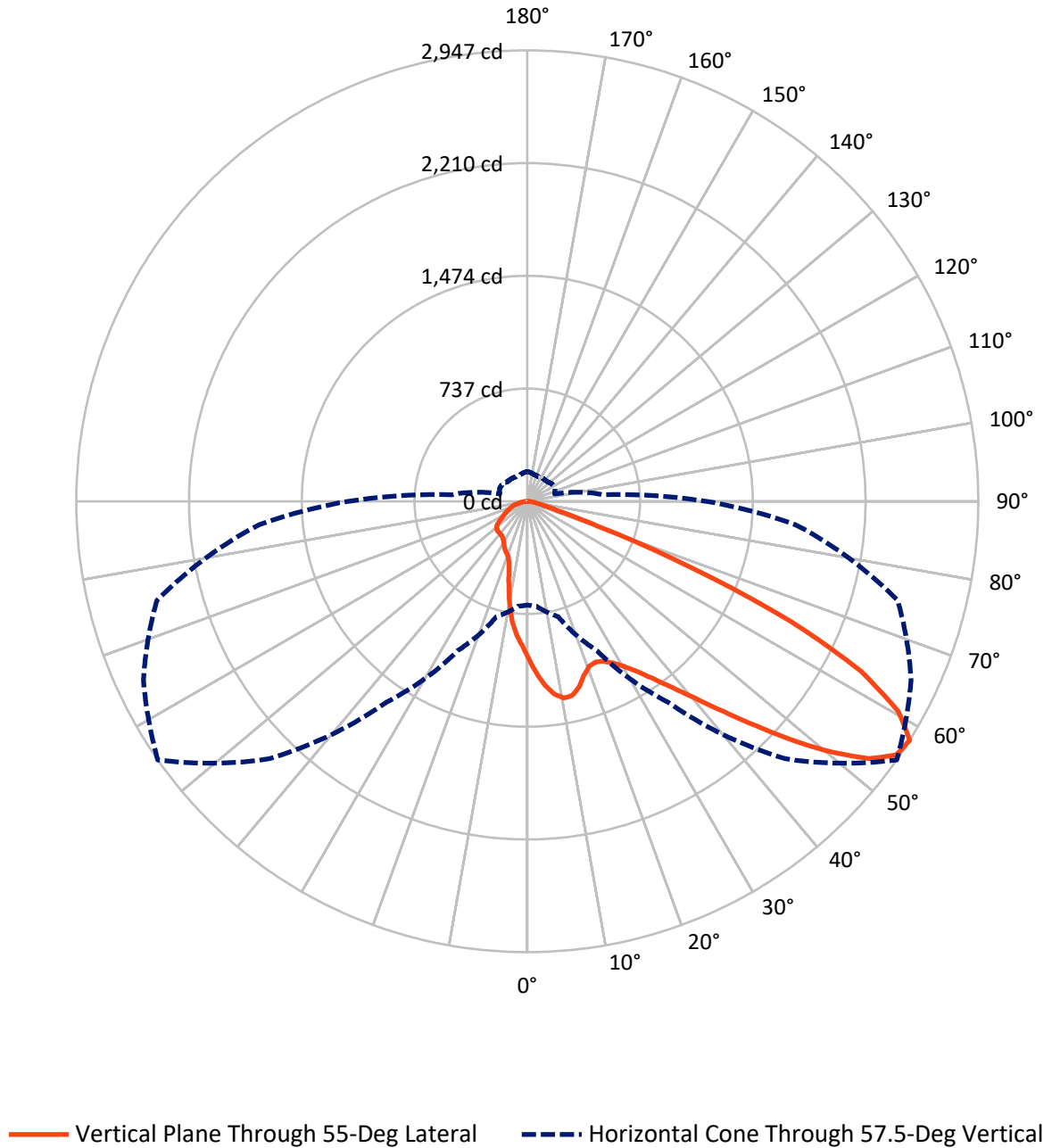
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.1	0.0	742.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3358.9	0.0	3358.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	4101.0	0.0	4101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	2.3
10°-20°	240.7	5.9
20°-30°	384.0	9.4
30°-40°	608.0	14.8
40°-50°	930.7	22.7
50°-60°	996.8	24.3
60°-70°	627.1	15.3
70°-80°	185.5	4.5
80°-90°	32.8	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°	4101.0	100.0
0°-180°	4101.0	100.0

Coefficient of Utilization



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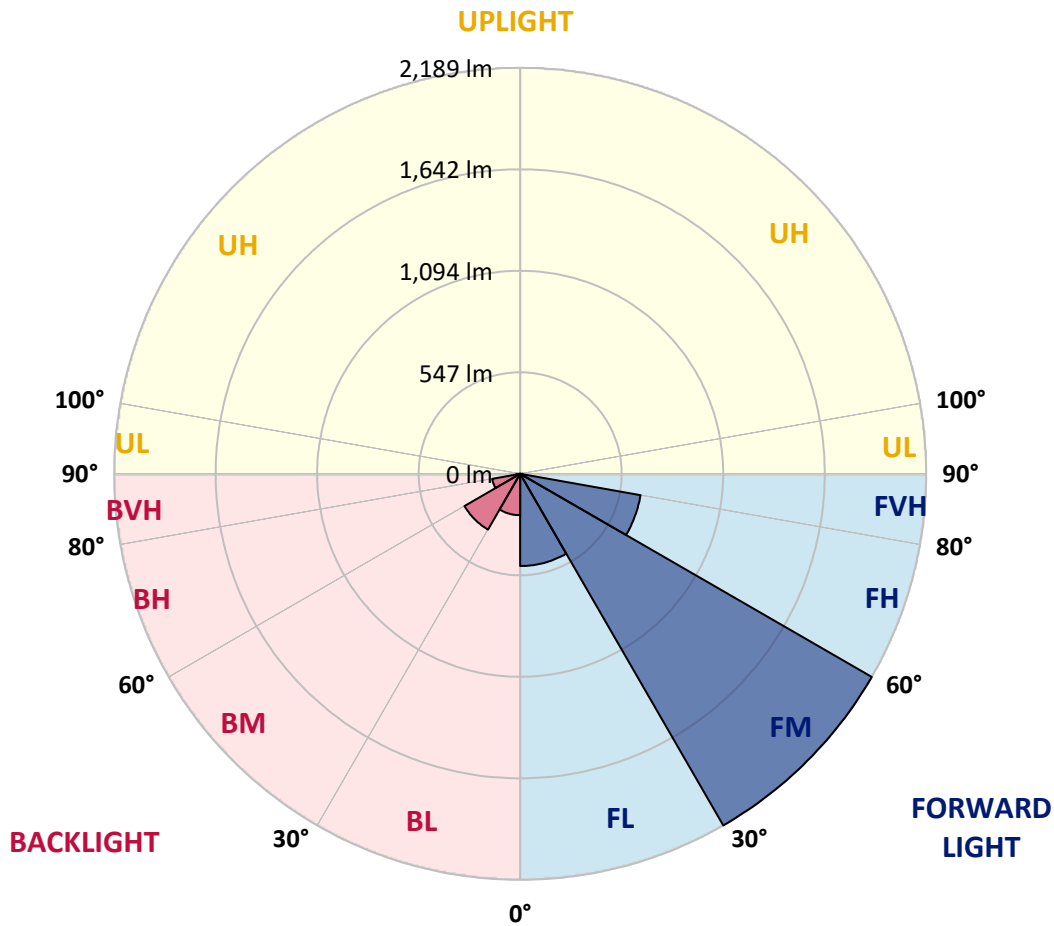
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.0	12.1			
FM (30°-60°)	2188.7	53.4			
FH (60°-80°)	659.3	16.1			G0/660
FVH (80°-90°)	13.8	0.3			G1/100
BL (0°-30°)	223.0	5.4	B1/500		
BM (30°-60°)	346.8	8.5	B1/1000		
BH (60°-80°)	153.3	3.7	B1/500		G1/500
BVH (80°-90°)	18.9	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°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1178.9	1178.1	1182.8	1166.9	1156.1	1141.4	1122.1	1097.5	1071.0	1043.1
5°	1285.2	1277.7	1282.6	1270.7	1258.9	1236.8	1208.2	1168.1	1119.2	1063.4
7.5°	1268.4	1263.3	1275.8	1286.4	1295.3	1292.6	1271.6	1229.6	1166.4	1085.5
10°	1133.4	1127.6	1145.2	1181.9	1235.8	1282.6	1308.1	1282.0	1214.8	1109.6
12.5°	1014.2	1011.5	1023.1	1052.8	1112.6	1202.5	1303.4	1327.8	1265.0	1138.2
15°	963.3	959.9	967.4	982.4	1020.6	1104.3	1261.0	1359.1	1314.4	1171.3
17.5°	952.1	948.3	951.5	959.3	983.9	1047.7	1197.0	1374.6	1365.9	1208.2
20°	972.9	969.7	970.1	969.7	986.9	1037.5	1152.4	1368.7	1410.9	1242.1
22.5°	1023.1	1017.8	1018.0	1006.8	1016.1	1055.3	1140.8	1352.8	1450.9	1271.8
25°	1105.0	1095.4	1097.3	1068.7	1066.2	1095.2	1159.0	1340.5	1490.8	1295.5
27.5°	1216.9	1206.1	1200.4	1157.7	1137.4	1151.8	1196.1	1344.7	1528.5	1316.1
30°	1356.8	1343.7	1332.0	1271.6	1234.7	1229.4	1253.8	1372.7	1573.1	1337.7
32.5°	1528.3	1513.1	1491.9	1411.7	1359.8	1332.0	1328.4	1422.5	1625.2	1365.3
35°	1732.5	1712.6	1682.5	1578.8	1513.1	1456.2	1426.8	1494.4	1696.7	1406.9
37.5°	1942.8	1920.3	1892.8	1769.4	1688.6	1604.9	1546.8	1591.9	1791.8	1463.2
40°	2136.8	2111.5	2085.9	1976.1	1889.4	1788.5	1693.7	1715.3	1908.2	1530.7
42.5°	2251.3	2232.6	2222.8	2163.5	2096.5	1994.1	1876.4	1861.6	2039.0	1608.3
45°	2246.2	2238.5	2268.6	2293.2	2277.3	2220.5	2090.6	2023.4	2170.3	1675.5
47.5°	2126.2	2131.3	2198.5	2336.7	2397.5	2427.2	2334.4	2182.1	2284.3	1725.7
50°	1799.7	1803.9	1959.5	2257.6	2428.5	2595.8	2576.3	2337.1	2372.7	1756.4
52.5°	1541.3	1544.0	1610.8	2023.1	2326.3	2680.6	2794.2	2483.2	2437.4	1764.9
55°	1160.9	1170.5	1245.3	1587.3	2060.5	2613.4	2926.9	2633.7	2478.3	1765.8
57.5°	678.2	688.6	781.0	1077.4	1601.5	2379.1	2947.1	2767.3	2506.1	1759.0
60°	332.2	336.7	376.9	566.3	987.5	1927.7	2785.1	2831.9	2521.6	1755.4
62.5°	223.9	223.2	224.9	279.4	486.5	1238.5	2447.6	2718.7	2513.3	1741.6
65°	192.5	190.2	183.8	196.1	252.1	566.5	1891.1	2380.8	2450.3	1707.0
67.5°	166.4	166.6	166.8	163.0	180.0	261.4	1155.6	1875.4	2224.3	1543.4
70°	137.8	139.7	140.6	140.6	146.7	171.5	493.3	1285.4	1754.5	1210.1
72.5°	125.5	121.5	121.9	119.8	119.8	130.6	198.6	728.7	1105.4	680.7
75°	102.4	104.9	105.4	103.9	99.0	99.6	117.9	305.7	473.0	282.4
77.5°	88.4	88.4	89.3	88.2	84.4	74.6	78.7	118.5	160.9	115.8
80°	71.0	70.8	74.4	76.5	70.6	55.1	50.2	65.5	71.4	50.9
82.5°	34.6	36.7	51.1	58.3	53.6	39.9	30.7	40.7	38.2	22.5
85°	20.1	19.1	22.9	32.4	30.7	22.0	14.8	21.2	19.9	11.4
87.5°	6.4	5.9	4.7	11.0	8.9	6.1	4.0	6.1	5.5	2.5
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°
1027.6	0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
1031.0	2.5°	1015.9	990.9	966.1	943.4	929.6	920.7	911.8	901.9	898.0	892.3
1033.7	5°	1005.7	957.4	914.4	877.3	843.6	817.1	790.3	768.7	759.0	765.5
1042.4	7.5°	999.8	929.8	863.5	795.4	729.9	677.6	632.0	600.0	585.6	589.2
1050.9	10°	994.5	898.7	797.6	690.1	595.9	531.1	484.4	460.0	450.9	452.8
1062.3	12.5°	989.6	863.7	718.1	576.6	476.6	433.8	420.4	420.6	422.3	423.6
1080.6	15°	988.8	821.5	629.2	477.4	412.1	409.4	423.8	432.9	437.8	439.3
1095.8	17.5°	987.5	771.1	538.7	409.8	396.4	415.1	428.5	434.4	438.2	438.4
1110.7	20°	982.4	707.0	455.2	377.6	393.1	409.2	417.4	422.1	425.3	426.3
1121.9	22.5°	966.7	635.8	390.1	363.2	379.5	392.4	402.2	407.5	409.4	410.6
1124.0	25°	938.5	556.1	345.1	349.4	360.6	376.9	384.8	385.8	385.2	387.1
1118.7	27.5°	901.6	470.6	317.2	330.7	345.1	359.1	363.4	362.7	361.5	363.6
1109.6	30°	857.1	393.9	299.3	309.7	329.5	342.2	346.0	344.5	342.0	344.3
1105.0	32.5°	810.1	331.1	284.7	295.1	316.5	329.0	332.8	331.4	329.5	331.4
1110.3	35°	766.2	287.3	271.2	285.4	306.3	318.6	323.5	323.7	323.7	326.1
1124.3	37.5°	725.9	261.6	259.9	279.2	299.3	310.4	317.4	317.8	308.7	309.3
1148.0	40°	688.6	250.8	254.8	275.2	292.6	303.2	303.6	279.8	263.1	262.7
1175.1	42.5°	658.1	248.7	256.3	274.8	287.7	288.1	258.2	239.8	235.1	235.3
1200.1	45°	629.4	248.0	259.7	274.8	280.5	248.9	228.8	223.9	224.3	226.0
1211.4	47.5°	597.4	245.5	260.3	270.9	259.7	221.3	215.4	213.3	212.4	212.9
1208.8	50°	562.4	236.4	252.3	263.3	224.1	209.5	202.0	201.4	202.5	203.1
1194.6	52.5°	525.6	221.5	238.5	249.5	207.8	199.1	190.8	192.3	197.0	198.4
1179.8	55°	501.4	204.2	220.3	222.0	196.3	189.3	182.3	185.7	194.4	197.2
1170.9	57.5°	495.0	185.7	199.5	197.6	181.7	180.8	176.6	179.6	190.6	194.6
1170.5	60°	493.1	169.2	179.1	177.7	167.5	171.5	170.5	171.9	175.8	177.0
1166.2	62.5°	478.3	156.0	160.9	158.8	154.8	161.8	164.3	161.1	164.1	165.6
1137.2	65°	440.5	145.4	143.1	141.6	143.3	149.7	154.8	148.4	151.2	155.4
1025.2	67.5°	378.2	131.0	124.7	126.4	131.7	135.0	141.6	134.4	136.7	143.9
825.8	70°	305.9	112.8	107.1	111.9	117.0	124.0	125.1	120.2	125.7	133.8
503.9	72.5°	216.5	94.3	90.3	100.3	102.0	111.1	108.8	106.4	114.1	116.8
249.1	75°	150.1	76.1	73.8	81.4	87.6	95.4	93.7	96.5	112.6	113.8
124.4	77.5°	95.0	59.1	57.7	62.5	71.0	79.7	82.5	113.8	192.3	199.9
64.7	80°	55.1	44.1	42.4	46.2	53.6	61.7	79.5	139.7	126.8	125.3
29.0	82.5°	30.7	30.3	28.2	29.3	35.8	44.5	112.4	98.4	79.9	82.5
11.7	85°	14.4	17.8	15.3	14.6	20.1	52.2	75.0	56.2	37.3	36.5
2.5	87.5°	3.8	3.4	3.4	3.8	8.5	44.9	29.9	24.0	14.2	13.8
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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