

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: P945715

Luminaire Tested: **GALN-SB1C-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945715
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-SB1C-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6846 lumens
Efficiency: N/A
Efficacy: 125.8 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

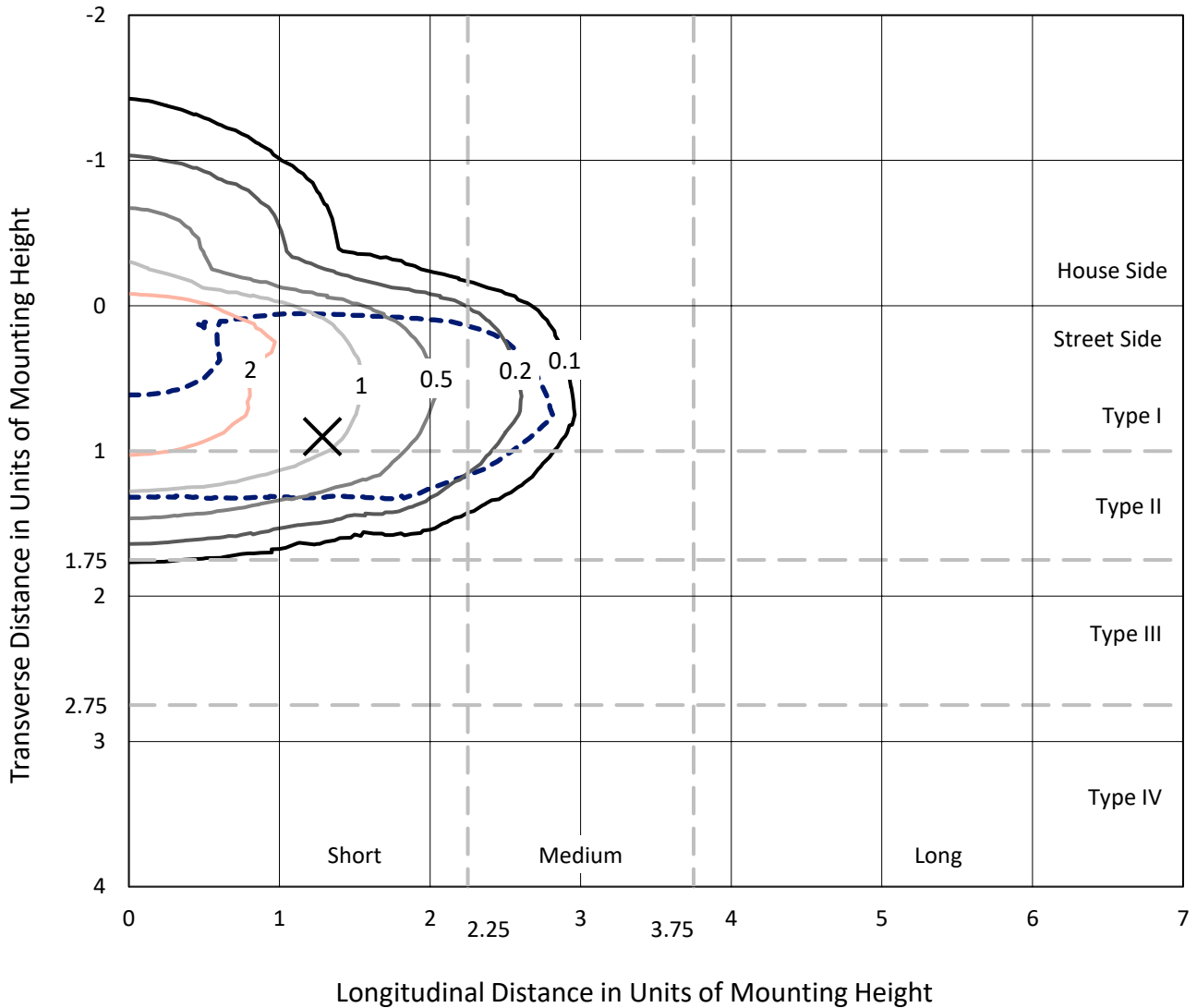
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

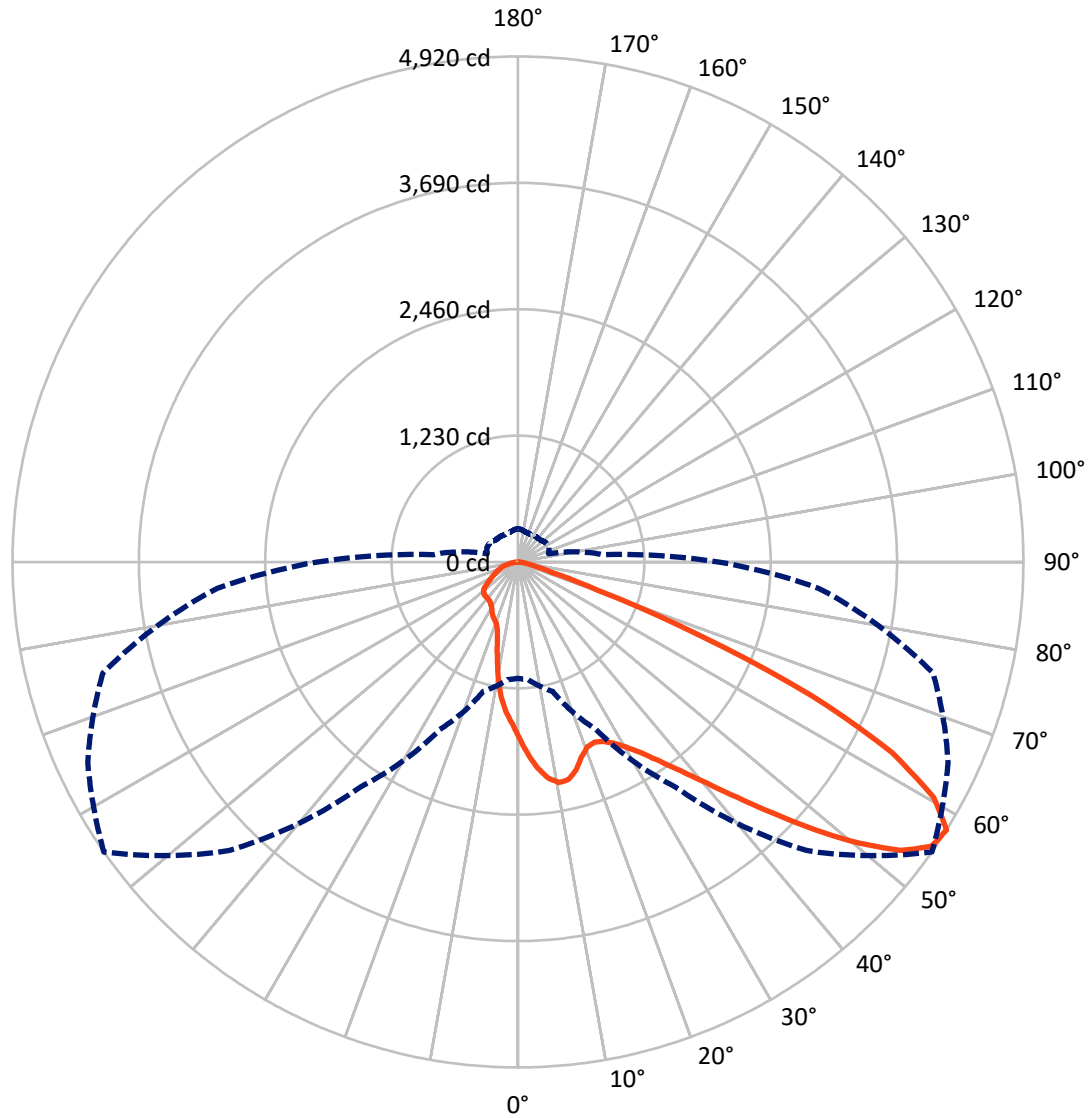
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
House Side	Lumens	1238.8	0.0	1238.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5607.3	0.0	5607.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	6846.0	0.0	6846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.3
10°-20°	401.8	5.9
20°-30°	641.1	9.4
30°-40°	1015.0	14.8
40°-50°	1553.6	22.7
50°-60°	1664.1	24.3
60°-70°	1046.9	15.3
70°-80°	309.6	4.5
80°-90°	54.7	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°	6846.0	100.0
0°-180°	6846.0	100.0

Coefficient of Utilization



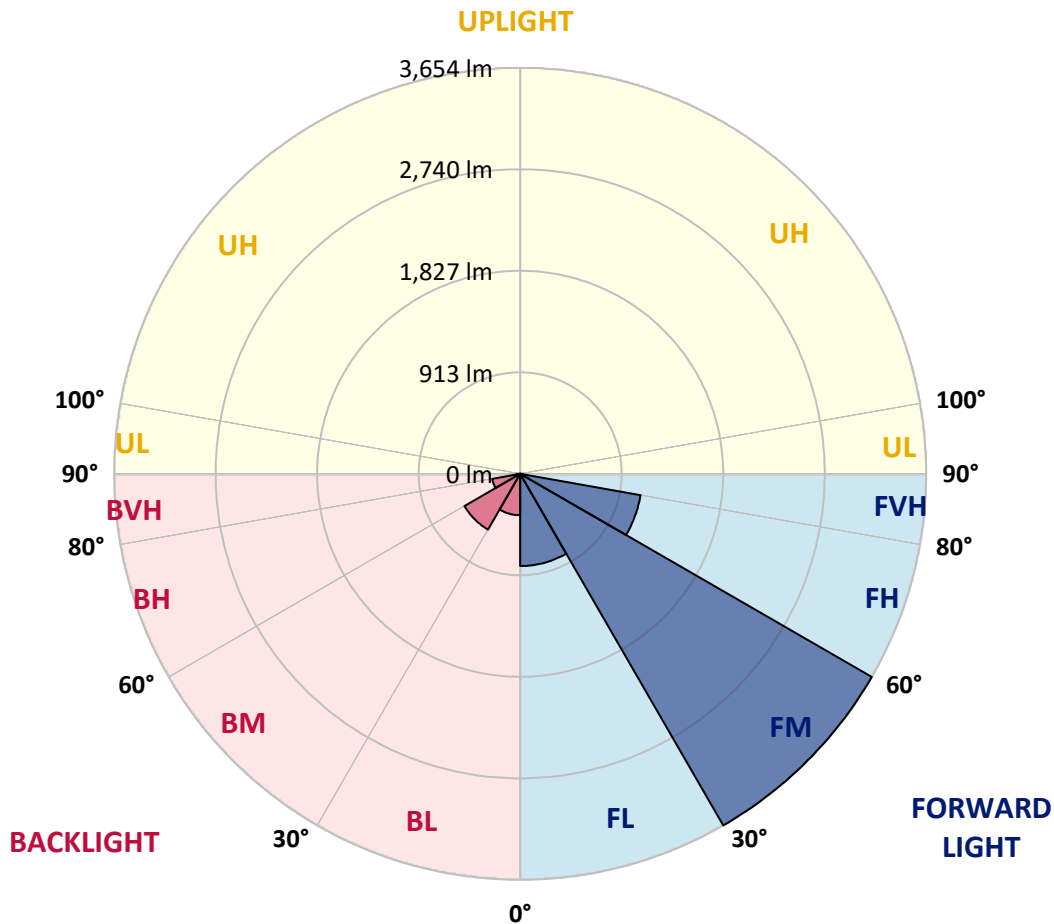
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.7	12.1			
FM (30°-60°)	3653.8	53.4			
FH (60°-80°)	1100.6	16.1			G1/1800
FVH (80°-90°)	23.1	0.3			G1/100
BL (0°-30°)	372.3	5.4	B1/500		
BM (30°-60°)	579.0	8.5	B1/1000		
BH (60°-80°)	255.8	3.7	B1/500		G1/500
BVH (80°-90°)	31.6	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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1968.1	1966.7	1974.4	1947.9	1929.9	1905.4	1873.2	1832.2	1787.9	1741.2
5°	2145.4	2133.0	2141.1	2121.3	2101.5	2064.7	2016.9	1950.0	1868.3	1775.2
7.5°	2117.4	2108.9	2129.8	2147.5	2162.4	2157.8	2122.7	2052.7	1947.2	1812.0
10°	1892.0	1882.4	1911.8	1973.0	2062.9	2141.1	2183.6	2140.1	2027.9	1852.3
12.5°	1693.1	1688.5	1708.0	1757.5	1857.3	2007.4	2175.8	2216.5	2111.8	1900.1
15°	1608.2	1602.5	1614.9	1640.0	1703.7	1843.5	2105.0	2268.9	2194.2	1955.3
17.5°	1589.4	1583.0	1588.3	1601.4	1642.5	1749.0	1998.2	2294.7	2280.2	2016.9
20°	1624.1	1618.8	1619.5	1618.8	1647.4	1732.0	1923.8	2284.8	2355.2	2073.5
22.5°	1708.0	1699.1	1699.5	1680.7	1696.3	1761.7	1904.4	2258.3	2422.1	2123.1
25°	1844.6	1828.6	1831.8	1784.0	1779.8	1828.3	1934.8	2237.8	2488.7	2162.7
27.5°	2031.4	2013.4	2003.8	1932.7	1898.7	1922.8	1996.7	2244.8	2551.7	2197.1
30°	2265.0	2243.1	2223.6	2122.7	2061.2	2052.3	2093.0	2291.5	2626.0	2233.2
32.5°	2551.3	2525.8	2490.4	2356.7	2270.0	2223.6	2217.6	2374.7	2713.0	2279.2
35°	2892.1	2858.9	2808.6	2635.5	2525.8	2431.0	2381.8	2494.7	2832.3	2348.5
37.5°	3243.2	3205.7	3159.7	2953.7	2818.9	2679.1	2582.1	2657.5	2991.2	2442.7
40°	3567.0	3524.9	3482.1	3298.8	3154.0	2985.6	2827.4	2863.5	3185.5	2555.2
42.5°	3758.1	3727.0	3710.7	3611.6	3499.8	3328.8	3132.4	3107.7	3403.9	2684.7
45°	3749.6	3736.9	3787.2	3828.2	3801.7	3706.8	3489.9	3377.7	3622.9	2796.9
47.5°	3549.3	3557.8	3670.0	3900.8	4002.3	4051.9	3896.9	3642.8	3813.3	2880.8
50°	3004.3	3011.4	3271.2	3768.8	4054.0	4333.2	4300.7	3901.5	3960.9	2932.1
52.5°	2572.9	2577.5	2689.0	3377.3	3883.4	4474.8	4664.5	4145.3	4068.9	2946.3
55°	1938.0	1953.9	2078.8	2649.7	3439.6	4362.6	4886.0	4396.6	4137.2	2947.7
57.5°	1132.1	1149.5	1303.8	1798.6	2673.4	3971.5	4919.7	4619.5	4183.5	2936.4
60°	554.6	562.0	629.2	945.3	1648.5	3218.1	4649.3	4727.5	4209.4	2930.3
62.5°	373.7	372.7	375.5	466.4	812.2	2067.5	4085.9	4538.5	4195.6	2907.3
65°	321.3	317.5	306.8	327.4	420.8	945.6	3156.8	3974.4	4090.5	2849.7
67.5°	277.8	278.2	278.5	272.2	300.5	436.4	1929.1	3130.7	3713.2	2576.4
70°	230.0	233.2	234.6	234.6	244.9	286.3	823.5	2145.7	2928.9	2020.1
72.5°	209.5	202.8	203.5	200.0	200.0	218.0	331.6	1216.4	1845.3	1136.4
75°	170.9	175.2	175.9	173.4	165.3	166.3	196.8	510.3	789.6	471.4
77.5°	147.6	147.6	149.0	147.2	140.9	124.6	131.3	197.8	268.6	193.2
80°	118.6	118.2	124.2	127.8	117.9	92.0	83.9	109.4	119.3	84.9
82.5°	57.7	61.2	85.3	97.3	89.5	66.5	51.3	68.0	63.7	37.5
85°	33.6	31.9	38.2	54.1	51.3	36.8	24.8	35.4	33.3	19.1
87.5°	10.6	9.9	7.8	18.4	14.9	10.3	6.7	10.3	9.2	4.2
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°
1715.4	0°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
1721.0	2.5°	1695.9	1654.2	1612.8	1574.9	1551.9	1537.0	1522.2	1505.5	1499.1	1489.6
1725.6	5°	1678.9	1598.2	1526.4	1464.5	1408.2	1364.0	1319.4	1283.3	1267.0	1278.0
1740.2	7.5°	1669.0	1552.2	1441.5	1327.9	1218.5	1131.1	1055.0	1001.6	977.5	983.5
1754.3	10°	1660.2	1500.2	1331.4	1152.0	994.8	886.5	808.7	768.0	752.8	755.9
1773.4	12.5°	1652.0	1441.8	1198.7	962.6	795.6	724.1	701.8	702.2	705.0	707.1
1803.9	15°	1650.6	1371.4	1050.4	797.0	688.0	683.4	707.5	722.7	730.8	733.3
1829.3	17.5°	1648.5	1287.2	899.3	684.1	661.8	692.9	715.2	725.2	731.5	731.9
1854.1	20°	1640.0	1180.3	759.8	630.3	656.1	683.0	696.8	704.6	709.9	711.7
1872.9	22.5°	1613.8	1061.4	651.2	606.2	633.5	655.1	671.4	680.2	683.4	685.5
1876.4	25°	1566.7	928.3	576.2	583.2	602.0	629.2	642.3	644.1	643.0	646.2
1867.6	27.5°	1505.2	785.7	529.4	552.1	576.2	599.5	606.6	605.5	603.4	606.9
1852.3	30°	1430.8	657.6	499.7	517.1	550.0	571.2	577.6	575.1	570.9	574.7
1844.6	32.5°	1352.3	552.8	475.3	492.6	528.4	549.3	555.6	553.2	550.0	553.2
1853.4	35°	1279.0	479.5	452.6	476.4	511.4	531.9	540.1	540.4	540.4	544.3
1876.8	37.5°	1211.8	436.7	433.9	466.1	499.7	518.1	529.8	530.5	515.3	516.3
1916.4	40°	1149.5	418.7	425.4	459.4	488.4	506.1	506.8	467.2	439.2	438.5
1961.7	42.5°	1098.5	415.1	427.9	458.7	480.3	481.0	431.1	400.3	392.5	392.8
2003.5	45°	1050.7	414.1	433.5	458.7	468.2	415.5	381.9	373.7	374.4	377.3
2022.2	47.5°	997.3	409.8	434.6	452.3	433.5	369.5	359.6	356.0	354.6	355.3
2018.0	50°	938.9	394.6	421.1	439.6	374.1	349.7	337.3	336.2	338.0	339.0
1994.3	52.5°	877.3	369.8	398.1	416.5	346.8	332.3	318.5	321.0	328.8	331.3
1969.5	55°	837.0	340.8	367.7	370.5	327.7	316.0	304.4	310.0	324.5	329.1
1954.6	57.5°	826.4	310.0	333.0	329.8	303.3	301.9	294.8	299.8	318.2	324.9
1953.9	60°	823.2	282.4	299.1	296.6	279.6	286.3	284.5	287.0	293.4	295.5
1946.8	62.5°	798.4	260.5	268.6	265.1	258.4	270.0	274.3	269.0	273.9	276.4
1898.4	65°	735.4	242.8	238.9	236.4	239.2	249.9	258.4	247.7	252.3	259.4
1711.5	67.5°	631.4	218.7	208.1	210.9	219.8	225.4	236.4	224.4	228.3	240.3
1378.5	70°	510.7	188.3	178.7	186.9	195.4	207.0	208.8	200.7	209.9	223.3
841.2	72.5°	361.3	157.5	150.8	167.4	170.2	185.4	181.6	177.7	190.4	195.0
415.8	75°	250.6	127.1	123.2	135.9	146.2	159.3	156.4	161.0	187.9	190.0
207.7	77.5°	158.6	98.7	96.3	104.4	118.6	133.1	137.7	190.0	321.0	333.7
107.9	80°	92.0	73.6	70.8	77.2	89.5	103.0	132.7	233.2	211.6	209.2
48.5	82.5°	51.3	50.6	47.1	48.8	59.8	74.3	187.6	164.2	133.4	137.7
19.5	85°	24.1	29.7	25.5	24.4	33.6	87.1	125.3	93.8	62.3	60.9
4.2	87.5°	6.4	5.7	5.7	6.4	14.2	75.0	49.9	40.0	23.7	23.0
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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