

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387187

Luminaire Tested: GAW-SA2D-830-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-830-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12945 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

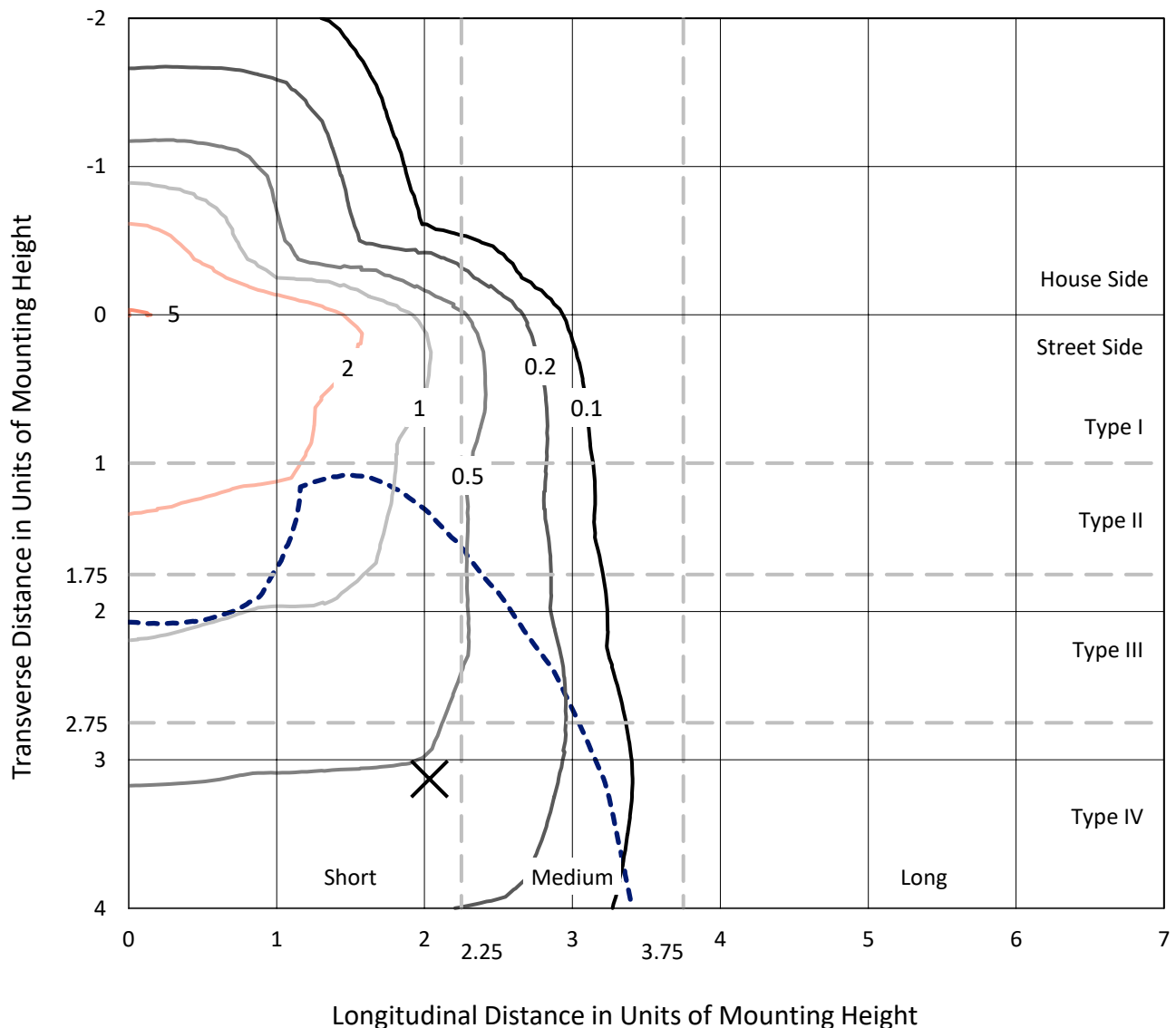
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

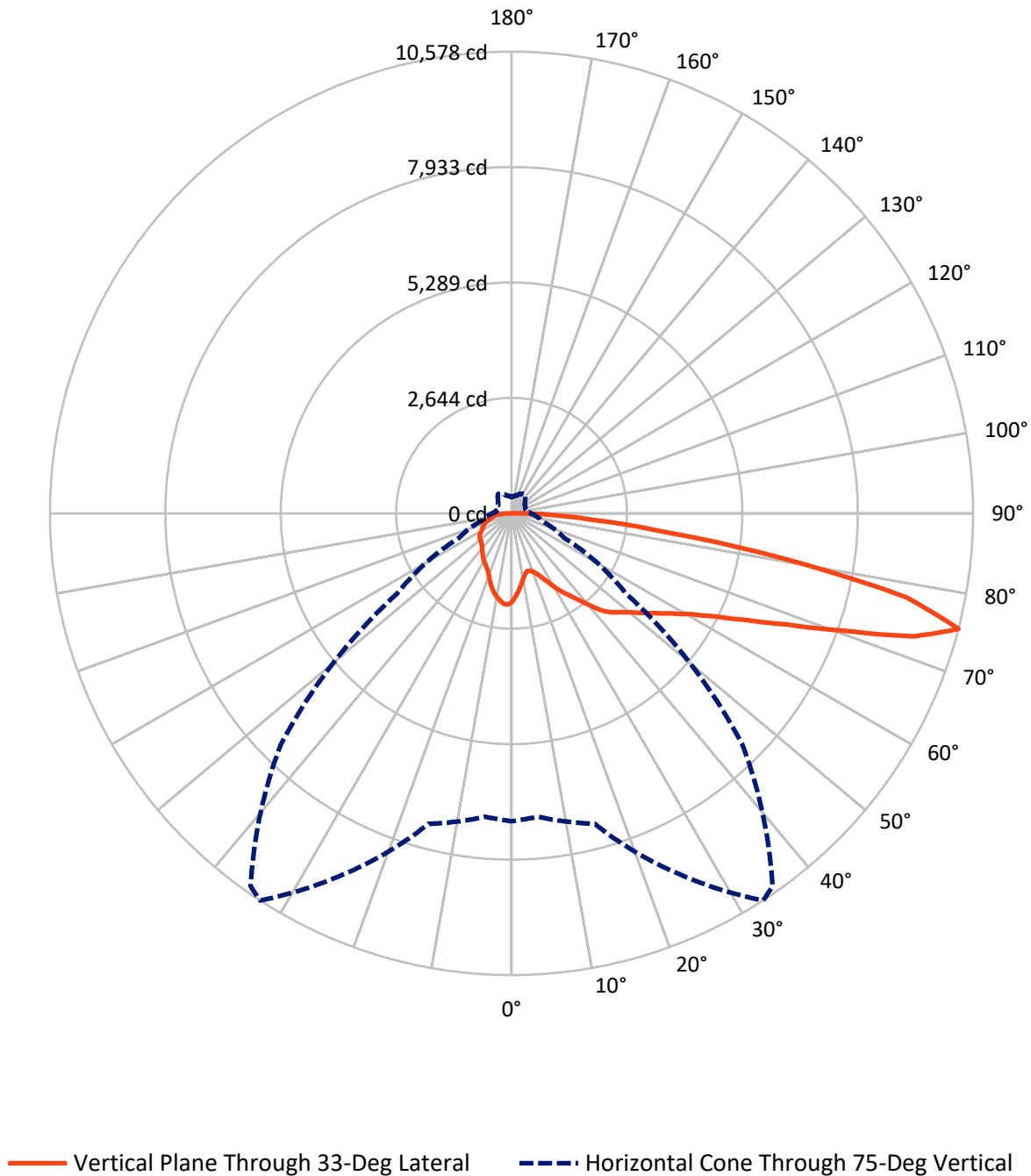
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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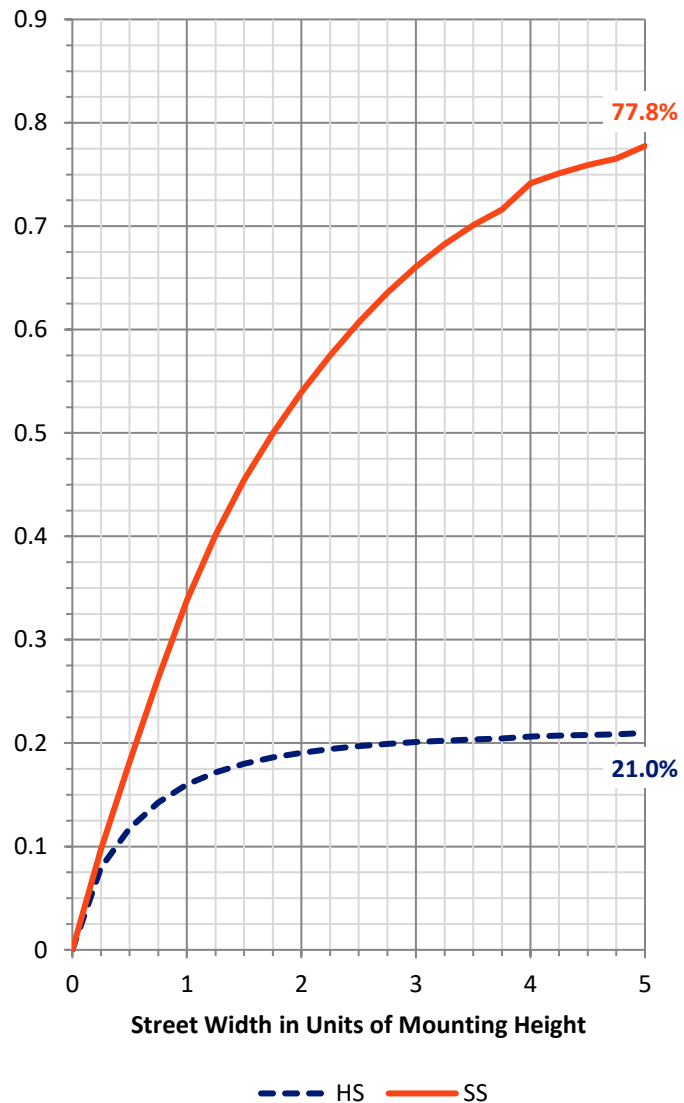
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.6	0.0	2779.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10165.4	0.0	10165.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	12945.0	0.0	12945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.4
10°-20°	495.6	3.8
20°-30°	809.4	6.3
30°-40°	1205.4	9.3
40°-50°	1728.9	13.4
50°-60°	2373.5	18.3
60°-70°	2971.5	23.0
70°-80°	2688.2	20.8
80°-90°	489.7	3.8
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°	12945.0	100.0
0°-180°	12945.0	100.0

Coefficient of Utilization



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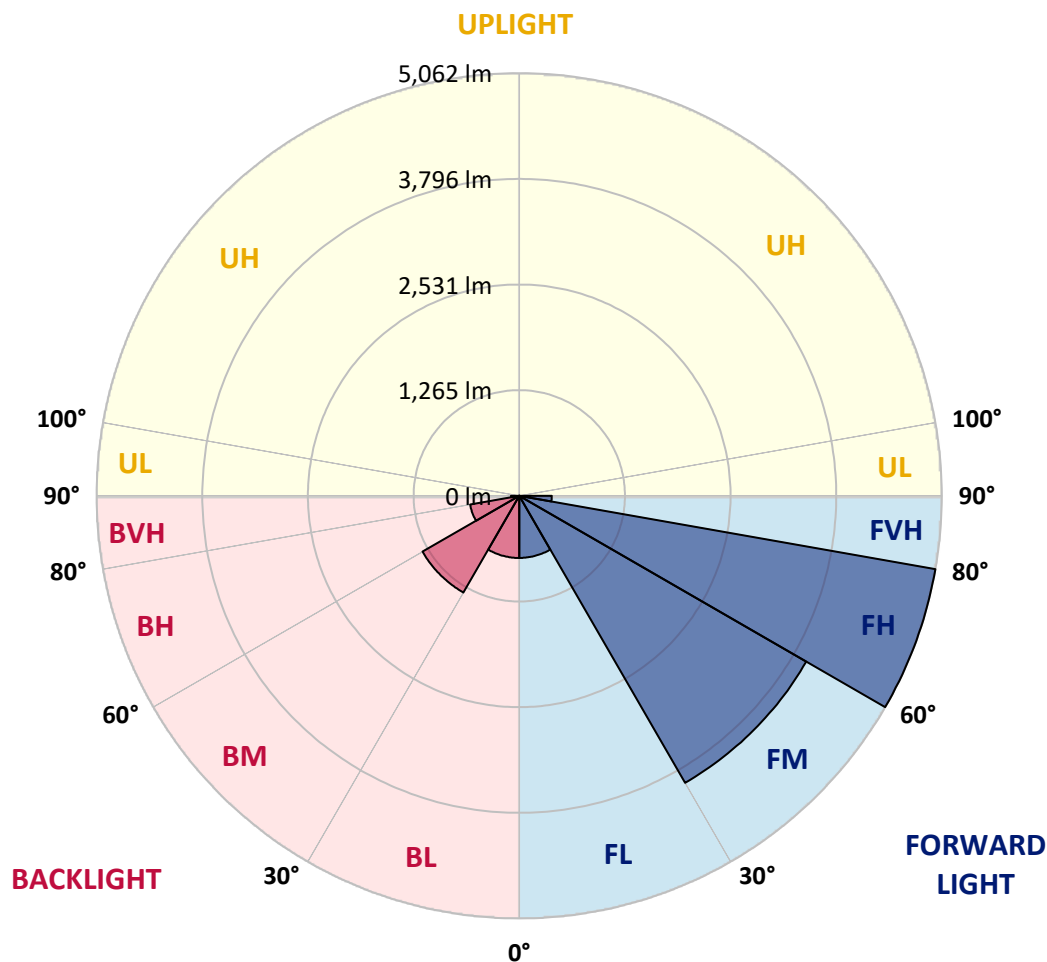
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	743.5	5.7			
FM	(30°-60°)	3970.0	30.7			
FH	(60°-80°)	5061.9	39.1			G3/7500
FVH	(80°-90°)	390.0	3.0			G3/500
BL	(0°-30°)	744.5	5.8	B2/1000		
BM	(30°-60°)	1337.8	10.3	B2/2500		
BH	(60°-80°)	597.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	99.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4
2.5°	1878.9	1871.8	1885.2	1887.0	1898.6	1903.1	1919.2	1944.2	1964.8	1988.5	2010.0
5°	1708.6	1703.7	1722.4	1735.9	1761.3	1772.1	1810.1	1863.3	1910.7	1964.4	2013.1
7.5°	1546.7	1544.0	1565.0	1595.4	1625.0	1639.7	1705.4	1782.8	1862.0	1948.7	2023.4
10°	1410.3	1409.4	1429.6	1459.5	1502.9	1519.4	1604.4	1706.3	1817.2	1936.6	2040.8
12.5°	1333.9	1337.0	1346.4	1371.4	1411.7	1428.2	1522.6	1642.4	1779.7	1932.6	2066.3
15°	1352.6	1357.6	1341.5	1340.6	1369.2	1382.2	1470.7	1596.8	1752.8	1939.3	2103.4
17.5°	1432.7	1433.6	1391.1	1364.3	1381.7	1388.4	1454.6	1570.9	1737.2	1954.5	2149.9
20°	1545.4	1543.1	1468.0	1423.3	1432.7	1434.5	1477.4	1571.3	1735.9	1980.9	2210.3
22.5°	1694.7	1678.2	1577.1	1516.3	1514.1	1511.4	1536.0	1604.4	1755.5	2023.8	2282.3
25°	1889.7	1874.0	1735.0	1651.8	1633.9	1627.2	1630.8	1675.0	1794.4	2069.9	2362.8
27.5°	2106.5	2079.3	1945.1	1827.5	1790.4	1781.0	1759.6	1774.8	1836.9	2114.1	2458.5
30°	2288.1	2273.3	2156.2	2016.7	1972.8	1959.4	1903.1	1886.5	1898.2	2174.5	2579.2
32.5°	2389.6	2379.8	2308.7	2196.0	2155.3	2136.5	2056.9	2023.8	1996.5	2269.8	2742.8
35°	2512.6	2506.3	2463.4	2381.5	2321.2	2301.5	2239.8	2205.4	2135.2	2400.8	2954.4
37.5°	2669.1	2662.4	2663.3	2597.1	2525.1	2506.8	2466.1	2429.8	2314.9	2572.9	3184.2
40°	2846.1	2833.2	2828.3	2825.1	2779.5	2769.2	2747.8	2698.6	2540.3	2778.6	3410.9
42.5°	3112.6	3066.6	2968.2	3005.3	3050.5	3045.1	3062.6	2991.9	2790.7	3021.9	3632.2
45°	3369.8	3294.2	3124.3	3132.3	3231.1	3261.1	3391.7	3341.6	3062.1	3288.4	3861.2
47.5°	3486.9	3429.7	3285.2	3285.7	3383.6	3445.8	3732.0	3696.2	3347.4	3591.1	4140.7
50°	3617.9	3560.7	3431.0	3479.8	3565.2	3631.3	4060.6	4042.3	3618.8	3922.4	4475.6
52.5°	3761.0	3664.0	3581.7	3668.9	3788.7	3865.7	4389.7	4339.6	3867.9	4256.0	4860.6
55°	3762.8	3736.4	3799.0	3863.0	4042.3	4136.6	4734.5	4602.1	4070.9	4583.8	5174.0
57.5°	3977.0	3934.1	4066.9	4096.4	4330.7	4437.1	5077.4	4830.6	4277.5	4835.1	5343.1
60°	4260.5	4223.8	4332.5	4410.3	4687.5	4829.7	5443.7	5065.4	4439.8	5024.7	5335.0
62.5°	4750.1	4708.5	4707.2	4816.3	5189.7	5355.1	5854.6	5295.7	4504.2	5062.2	5107.4
65°	5466.9	5400.7	5276.0	5327.9	5883.2	6048.2	6313.8	5462.4	4419.2	4861.0	4521.2
67.5°	6164.5	6162.2	6008.9	6115.3	6799.0	6931.3	6837.0	5479.0	4154.1	4160.3	3481.1
70°	6859.8	6868.7	6842.8	7213.1	8036.3	8174.0	7394.2	5256.8	3558.0	3004.4	2085.5
72.5°	7410.7	7408.5	7539.0	8493.7	9642.0	9611.1	7863.7	4583.3	2554.6	1621.8	996.7
75°	7053.9	6976.1	7365.1	9127.8	10577.9	10427.2	7464.4	3197.2	1325.8	738.3	536.6
77.5°	4600.8	4674.6	5245.6	7540.4	9252.5	9069.2	5476.3	1491.7	624.7	484.3	389.0
80°	1666.1	1743.9	2456.2	4271.2	6374.6	6344.7	2696.8	613.0	422.6	365.8	283.5
82.5°	573.3	601.9	969.0	1896.8	3599.2	3733.3	1014.6	348.3	307.2	259.3	194.1
85°	224.9	257.6	443.1	912.6	1815.4	1828.9	410.9	208.4	213.7	169.9	106.4
87.5°	85.4	103.7	212.0	423.9	829.0	761.5	147.1	99.3	121.6	101.1	50.5
90°	0.0	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°
0°	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4
2.5°	2026.5	2035.9	2055.6	2069.0	2083.3	2087.3	2089.1	2092.7	2096.3	2094.9	2095.4
5°	2039.0	2057.4	2089.1	2102.5	2108.8	2101.6	2087.8	2076.6	2068.5	2064.1	2062.7
7.5°	2059.6	2085.5	2119.5	2117.3	2103.0	2071.2	2035.4	2008.6	1986.3	1978.2	1973.7
10°	2086.9	2117.3	2141.0	2115.5	2073.9	2018.9	1965.2	1923.7	1890.1	1877.2	1874.9
12.5°	2121.8	2152.6	2157.1	2103.0	2034.1	1959.0	1886.1	1831.1	1781.0	1764.9	1761.3
15°	2166.9	2196.0	2168.3	2081.1	1984.9	1883.9	1789.5	1714.8	1662.1	1642.4	1635.2
17.5°	2214.3	2242.0	2170.5	2044.8	1920.5	1794.9	1676.4	1599.9	1539.6	1516.7	1514.1
20°	2271.1	2283.6	2161.1	1993.0	1832.0	1679.5	1554.8	1482.8	1450.6	1434.5	1432.7
22.5°	2341.3	2327.9	2139.6	1922.8	1719.8	1546.3	1444.8	1411.2	1403.2	1399.6	1400.9
25°	2415.5	2374.4	2107.9	1831.1	1578.0	1413.0	1364.3	1373.7	1384.4	1383.1	1383.1
27.5°	2497.4	2421.8	2059.1	1709.5	1421.1	1303.9	1309.7	1344.1	1360.2	1359.8	1359.4
30°	2602.4	2475.4	1997.0	1563.3	1274.4	1227.0	1262.3	1304.4	1326.3	1325.4	1325.8
32.5°	2731.7	2534.5	1912.5	1400.0	1168.4	1170.2	1210.9	1252.5	1278.0	1275.7	1276.2
35°	2882.8	2600.7	1798.0	1239.1	1098.2	1125.0	1157.2	1186.3	1210.4	1207.3	1204.2
37.5°	3047.4	2665.5	1646.0	1095.1	1041.0	1083.0	1109.8	1114.8	1125.9	1117.9	1112.1
40°	3203.9	2715.1	1450.1	977.0	983.3	1047.2	1064.7	1045.0	1024.9	1022.2	1014.1
42.5°	3340.2	2731.7	1252.0	882.7	922.5	1009.7	1020.4	979.3	943.0	926.1	918.9
45°	3484.2	2737.5	1067.4	803.5	863.9	976.1	987.8	932.8	881.8	845.1	833.0
47.5°	3672.5	2779.5	923.8	745.0	819.2	953.8	970.3	895.7	829.5	777.2	766.0
50°	3918.9	2862.7	807.1	700.2	790.1	939.0	957.8	859.4	786.5	723.5	712.3
52.5°	4192.5	2939.1	712.8	664.0	762.0	913.1	941.7	833.5	746.3	673.9	661.8
55°	4383.9	2880.6	636.7	626.5	725.3	876.0	919.4	811.6	688.6	625.6	614.8
57.5°	4420.6	2680.2	579.1	587.6	681.0	829.5	884.9	762.8	657.3	604.6	593.4
60°	4320.4	2401.2	536.1	551.8	633.6	770.9	820.5	728.4	627.4	582.2	572.8
62.5°	4068.7	2115.5	504.4	519.6	589.4	711.4	780.3	692.2	597.0	556.7	547.3
65°	3560.2	1776.1	474.0	491.0	548.2	660.0	744.1	658.7	567.0	536.1	527.2
67.5°	2687.4	1330.3	445.4	460.6	511.5	615.3	704.7	625.6	537.9	518.3	507.5
70°	1582.5	833.0	412.7	428.8	473.1	568.8	662.7	589.4	501.7	492.8	478.9
72.5°	736.5	501.3	375.6	391.3	424.8	506.6	608.6	542.0	458.8	439.1	420.3
75°	439.6	366.7	331.8	345.7	369.3	440.4	540.6	493.7	418.1	392.2	372.5
77.5°	328.7	280.4	283.5	298.3	317.5	385.4	478.9	455.7	386.8	366.7	353.3
80°	236.5	212.8	231.2	247.3	267.4	350.6	458.8	421.2	349.7	322.8	310.3
82.5°	157.8	152.9	173.9	190.5	210.2	306.7	431.1	368.9	298.7	264.7	237.0
85°	87.2	92.1	117.2	124.3	141.3	216.0	353.3	296.5	224.9	181.1	173.0
87.5°	36.2	42.5	63.0	60.8	75.1	128.8	232.5	178.9	143.1	106.9	83.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)