

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: P387075

Luminaire Tested: GAW-SA2D-735-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387075
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-735-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 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: 15302.7 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

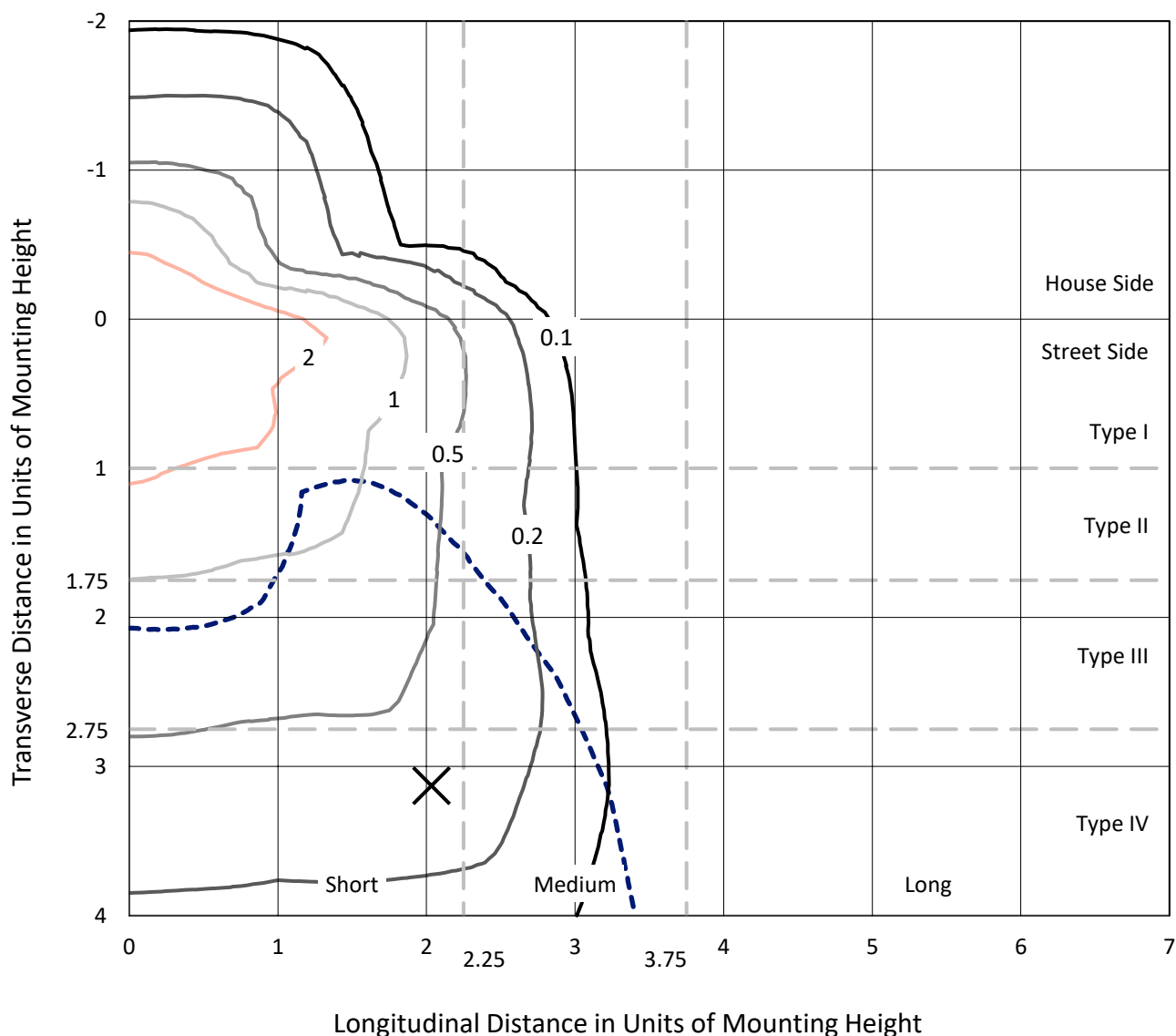
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

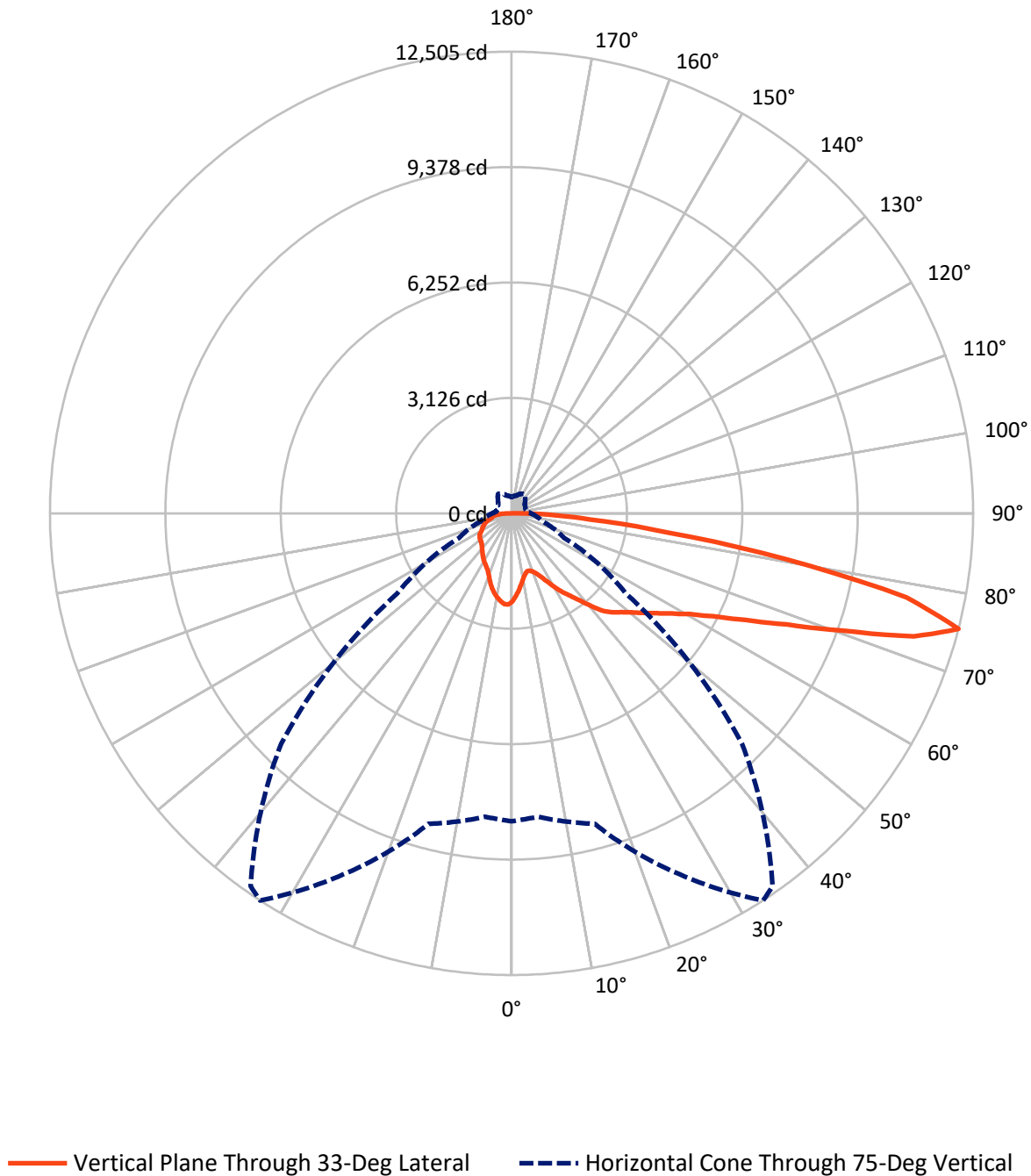
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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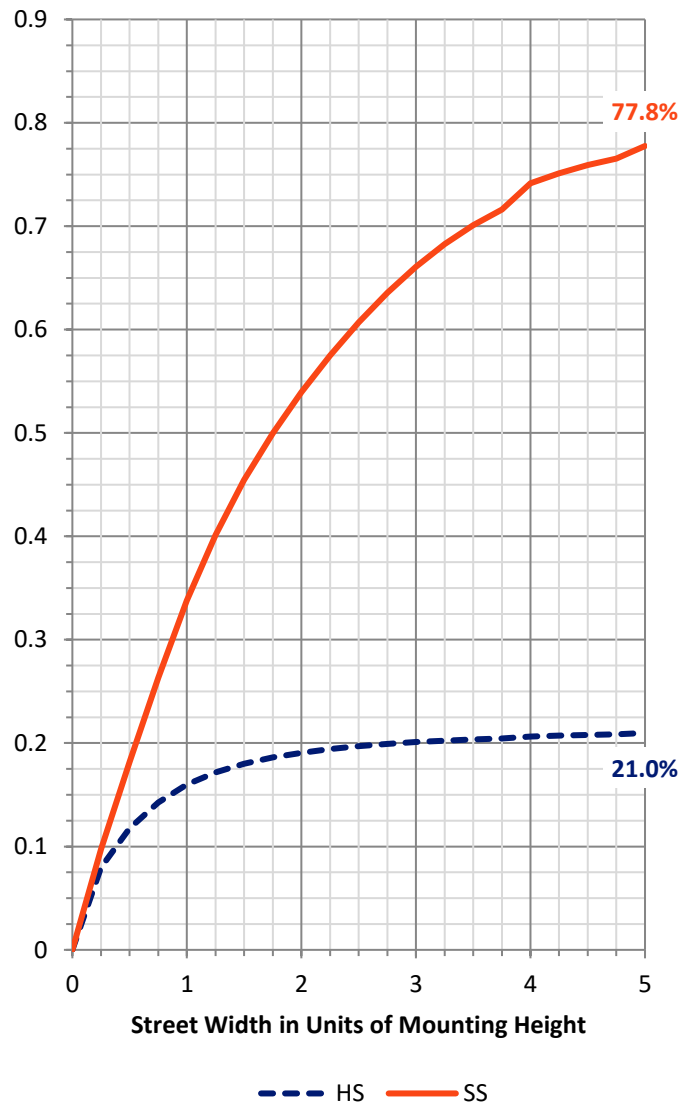
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.9	0.0	3285.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12016.8	0.0	12016.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	15302.7	0.0	15302.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.4
10°-20°	585.9	3.8
20°-30°	956.8	6.3
30°-40°	1424.9	9.3
40°-50°	2043.7	13.4
50°-60°	2805.8	18.3
60°-70°	3512.7	23.0
70°-80°	3177.7	20.8
80°-90°	578.8	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°	15302.7	100.0
0°-180°	15302.7	100.0

Coefficient of Utilization



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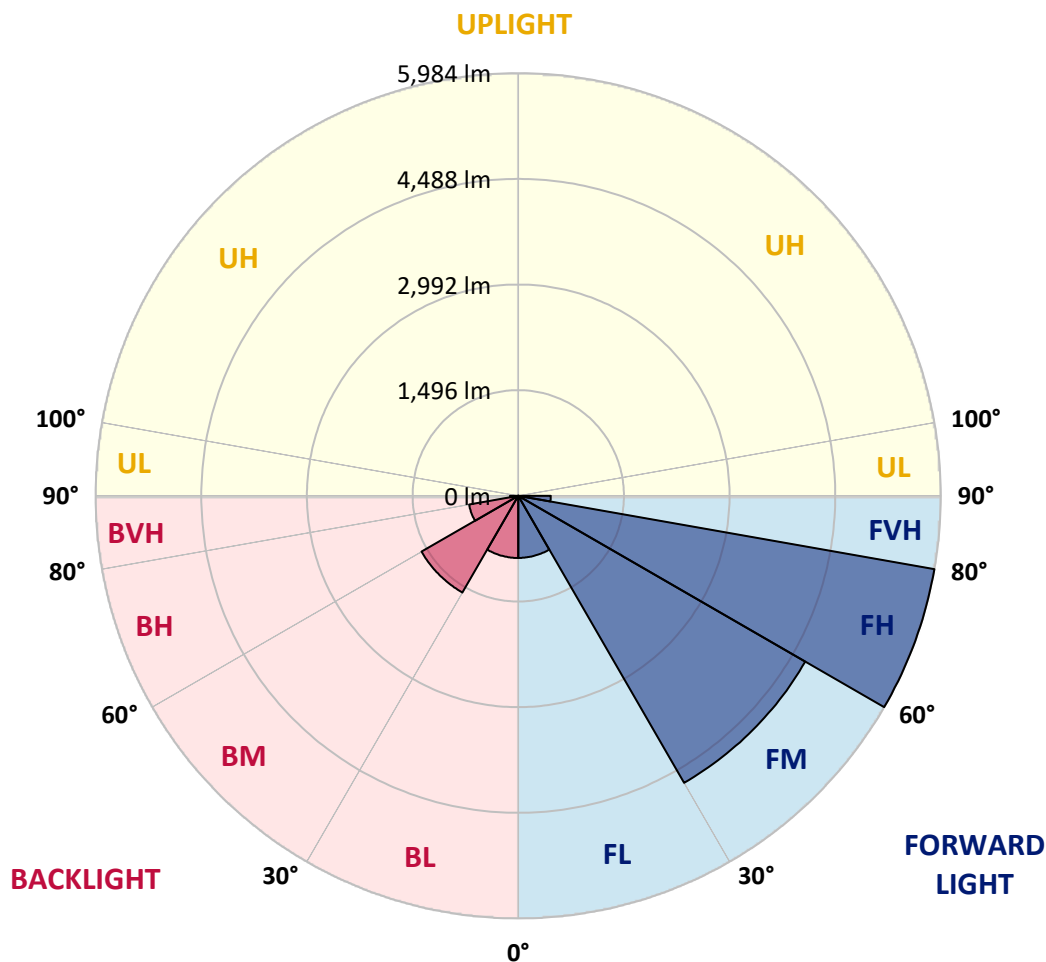
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.9	5.7			
FM	(30°-60°)	4693.0	30.7			
FH	(60°-80°)	5983.9	39.1			G3/7500
FVH	(80°-90°)	461.0	3.0			G3/500
BL	(0°-30°)	880.1	5.8	B2/1000		
BM	(30°-60°)	1581.4	10.3	B2/2500		
BH	(60°-80°)	706.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	117.8	0.8			G2/225
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°	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9
2.5°	2221.2	2212.7	2228.5	2230.7	2244.4	2249.8	2268.7	2298.3	2322.7	2350.6	2376.0
5°	2019.8	2014.0	2036.1	2052.0	2082.2	2094.8	2139.8	2202.7	2258.7	2322.1	2379.8
7.5°	1828.4	1825.2	1850.1	1886.0	1921.0	1938.3	2016.0	2107.5	2201.1	2303.6	2391.9
10°	1667.2	1666.1	1690.0	1725.4	1776.6	1796.2	1896.6	2017.2	2148.2	2289.4	2412.6
12.5°	1576.8	1580.5	1591.6	1621.2	1668.7	1688.4	1799.9	1941.5	2103.8	2284.6	2442.6
15°	1599.0	1604.9	1585.8	1584.8	1618.6	1633.9	1738.5	1887.6	2072.1	2292.5	2486.5
17.5°	1693.6	1694.7	1644.5	1612.8	1633.3	1641.3	1719.6	1857.0	2053.6	2310.5	2541.5
20°	1826.8	1824.2	1735.3	1682.5	1693.6	1695.7	1746.5	1857.5	2052.0	2341.7	2612.8
22.5°	2003.4	1983.8	1864.3	1792.5	1789.8	1786.6	1815.8	1896.6	2075.3	2392.4	2697.9
25°	2233.9	2215.4	2051.0	1952.6	1931.5	1923.6	1927.8	1980.1	2121.2	2446.8	2793.1
27.5°	2490.2	2458.0	2299.4	2160.4	2116.5	2105.4	2080.0	2098.0	2171.5	2499.2	2906.2
30°	2704.8	2687.4	2548.9	2384.0	2332.1	2316.4	2249.8	2230.1	2243.9	2570.6	3049.0
32.5°	2824.9	2813.2	2729.1	2595.9	2547.8	2525.7	2431.5	2392.4	2360.2	2683.2	3242.4
35°	2970.2	2962.8	2912.0	2815.3	2744.0	2720.7	2647.8	2607.0	2524.1	2838.0	3492.5
37.5°	3155.2	3147.3	3148.3	3070.1	2985.0	2963.3	2915.2	2872.4	2736.5	3041.6	3764.2
40°	3364.5	3349.2	3343.4	3339.6	3285.7	3273.6	3248.2	3190.1	3003.0	3284.7	4032.2
42.5°	3679.6	3625.1	3508.8	3552.7	3606.1	3599.8	3620.3	3536.8	3299.0	3572.2	4293.8
45°	3983.5	3894.2	3693.3	3702.8	3819.7	3855.1	4009.4	3950.2	3619.9	3887.3	4564.4
47.5°	4122.0	4054.3	3883.6	3884.1	3999.9	4073.4	4411.7	4369.4	3957.1	4245.1	4894.8
50°	4276.9	4209.2	4055.9	4113.5	4214.5	4292.7	4800.2	4778.5	4277.9	4636.8	5290.8
52.5°	4446.1	4331.4	4234.0	4337.2	4478.8	4569.7	5189.2	5130.0	4572.4	5031.2	5745.9
55°	4448.1	4416.9	4491.0	4566.6	4778.5	4890.0	5596.8	5440.3	4812.3	5418.6	6116.4
57.5°	4701.4	4650.6	4807.6	4842.5	5119.5	5245.3	6002.3	5710.5	5056.6	5715.7	6316.2
60°	5036.5	4993.2	5121.6	5213.5	5541.3	5709.4	6435.1	5988.0	5248.5	5939.9	6306.7
62.5°	5615.3	5566.1	5564.5	5693.5	6134.9	6330.5	6920.9	6260.2	5324.6	5984.2	6037.7
65°	6462.7	6384.4	6236.9	6298.3	6954.7	7149.8	7463.8	6457.3	5224.2	5746.4	5344.7
67.5°	7287.3	7284.6	7103.3	7229.1	8037.4	8193.8	8082.3	6476.9	4910.7	4918.1	4115.1
70°	8109.2	8119.7	8089.1	8526.8	9499.9	9662.8	8740.9	6214.2	4206.0	3551.7	2465.3
72.5°	8760.4	8757.8	8912.1	10040.7	11398.1	11361.7	9295.9	5418.1	3019.9	1917.2	1178.3
75°	8338.6	8246.7	8706.5	10790.3	12504.5	12326.4	8823.9	3779.5	1567.3	872.7	634.3
77.5°	5438.7	5526.0	6200.9	8913.7	10937.7	10721.0	6473.7	1763.4	738.5	572.5	459.8
80°	1969.5	2061.5	2903.6	5049.1	7535.7	7500.3	3187.9	724.7	499.6	432.4	335.2
82.5°	677.7	711.5	1145.5	2242.3	4254.7	4413.3	1199.4	411.7	363.2	306.6	229.4
85°	265.8	304.5	523.8	1078.9	2146.1	2161.9	485.8	246.3	252.7	200.8	125.8
87.5°	101.0	122.6	250.5	501.1	980.0	900.2	173.9	117.3	143.8	119.5	59.7
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°	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9	2391.9
2.5°	2395.6	2406.7	2429.9	2445.8	2462.7	2467.5	2469.6	2473.8	2478.0	2476.5	2477.0
5°	2410.4	2432.1	2469.6	2485.4	2492.9	2484.4	2468.0	2454.8	2445.3	2440.0	2438.4
7.5°	2434.7	2465.3	2505.6	2502.9	2486.0	2448.4	2406.2	2374.4	2348.0	2338.5	2333.3
10°	2466.9	2502.9	2530.9	2500.8	2451.6	2386.6	2323.2	2274.0	2234.3	2219.0	2216.4
12.5°	2508.2	2544.6	2550.0	2486.0	2404.6	2315.8	2229.7	2164.6	2105.4	2086.4	2082.2
15°	2561.5	2595.9	2563.1	2460.1	2346.4	2227.0	2115.4	2027.2	1964.8	1941.5	1933.1
17.5°	2617.6	2650.4	2565.8	2417.2	2270.3	2121.8	1981.7	1891.3	1820.0	1793.0	1789.8
20°	2684.8	2699.5	2554.7	2356.0	2165.7	1985.4	1837.9	1752.8	1714.8	1695.7	1693.6
22.5°	2767.7	2751.9	2529.3	2273.0	2032.9	1827.9	1707.9	1668.3	1658.8	1654.6	1656.1
25°	2855.5	2806.8	2491.8	2164.6	1865.4	1670.3	1612.8	1623.8	1636.5	1634.9	1634.9
27.5°	2952.2	2862.9	2434.2	2020.8	1679.9	1541.4	1548.2	1589.0	1608.0	1607.5	1606.9
30°	3076.4	2926.3	2360.7	1848.0	1506.5	1450.4	1492.2	1541.9	1567.8	1566.7	1567.3
32.5°	3229.2	2996.1	2260.8	1655.0	1381.2	1383.4	1431.4	1480.6	1510.7	1508.1	1508.6
35°	3407.8	3074.4	2125.5	1464.7	1298.2	1330.0	1368.0	1402.3	1430.9	1427.2	1423.6
37.5°	3602.4	3151.0	1945.8	1294.6	1230.6	1280.3	1312.0	1317.8	1331.0	1321.5	1314.6
40°	3787.4	3209.6	1714.2	1155.0	1162.4	1237.9	1258.6	1235.3	1211.5	1208.3	1198.9
42.5°	3948.6	3229.2	1480.1	1043.5	1090.5	1193.6	1206.3	1157.6	1114.8	1094.8	1086.2
45°	4118.9	3236.1	1261.8	949.9	1021.2	1154.0	1167.7	1102.7	1042.4	999.0	984.8
47.5°	4341.4	3285.7	1092.0	880.7	968.4	1127.5	1147.1	1058.8	980.5	918.7	905.5
50°	4632.6	3384.1	954.1	827.8	934.0	1110.1	1132.3	1016.0	929.8	855.2	842.1
52.5°	4956.1	3474.4	842.5	785.0	900.7	1079.4	1113.2	985.3	882.2	796.6	782.3
55°	5182.4	3405.2	752.7	740.5	857.4	1035.5	1086.8	959.4	814.1	739.5	726.8
57.5°	5225.8	3168.4	684.5	694.6	805.1	980.5	1046.1	901.8	777.1	714.7	701.4
60°	5107.3	2838.6	633.8	652.3	749.0	911.3	970.0	861.0	741.7	688.2	677.1
62.5°	4809.7	2500.8	596.2	614.3	696.7	841.0	922.4	818.3	705.7	658.1	647.0
65°	4208.7	2099.5	560.3	580.4	648.1	780.2	879.6	778.7	670.3	633.8	623.2
67.5°	3176.8	1572.5	526.4	544.5	604.7	727.4	833.1	739.5	635.9	612.7	600.0
70°	1870.7	984.8	487.9	506.9	559.2	672.4	783.4	696.7	593.0	582.5	566.2
72.5°	870.6	592.6	444.1	462.6	502.2	598.9	719.4	640.7	542.3	519.1	496.8
75°	519.6	433.4	392.2	408.6	436.6	520.7	639.1	583.6	494.2	463.6	440.3
77.5°	388.5	331.4	335.2	352.6	375.3	455.6	566.2	538.6	457.2	433.4	417.6
80°	279.7	251.6	273.3	292.3	316.1	414.5	542.3	498.0	413.3	381.7	366.8
82.5°	186.6	180.7	205.6	225.2	248.5	362.6	509.5	436.1	353.1	312.9	280.1
85°	103.1	108.9	138.5	146.9	167.0	255.3	417.6	350.5	265.8	214.1	204.6
87.5°	42.8	50.3	74.5	71.9	88.8	152.3	274.9	211.5	169.2	126.3	98.4
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)