

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: P387071

Luminaire Tested: GAW-SA2D-735-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-735-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15214.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

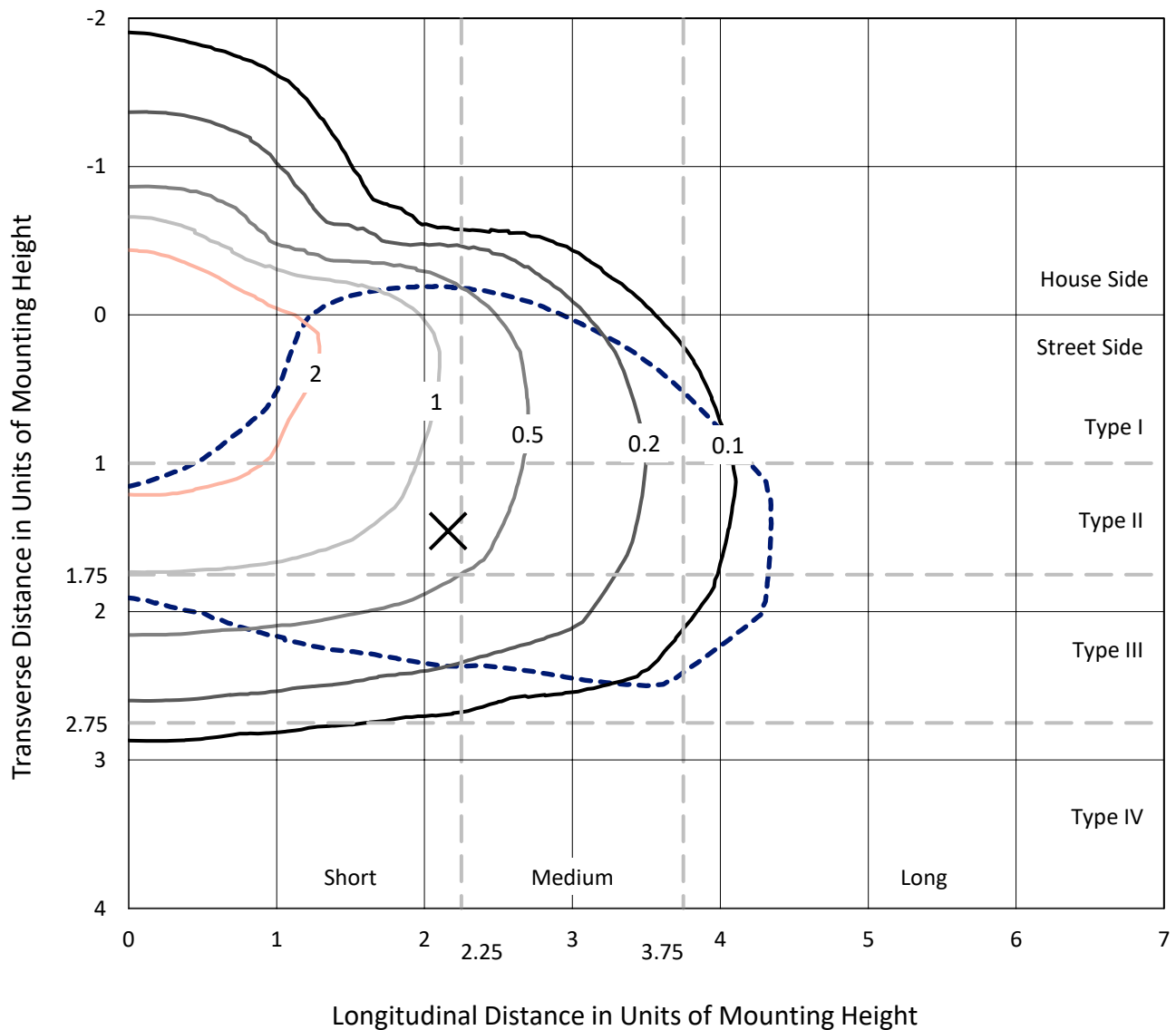
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

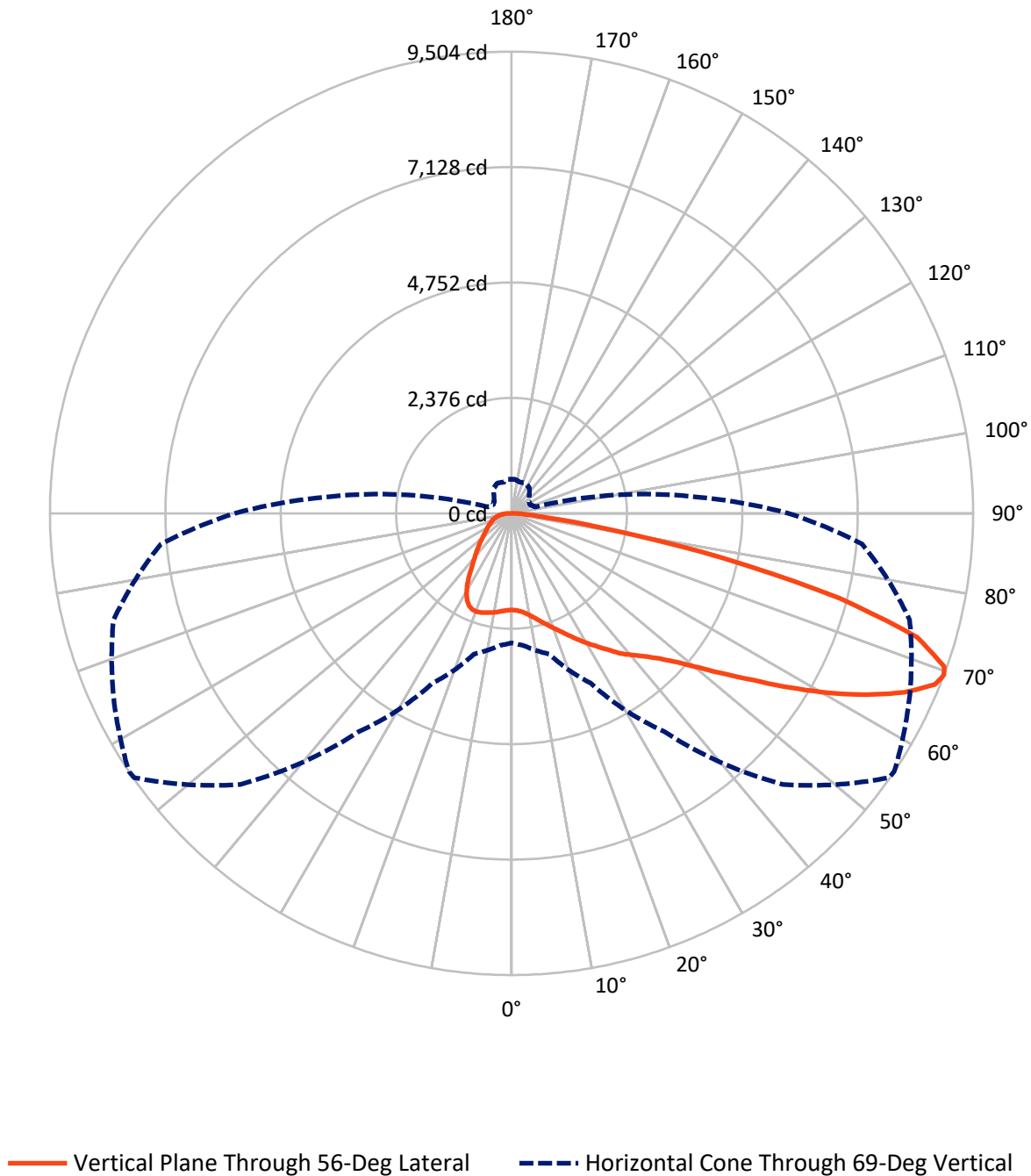
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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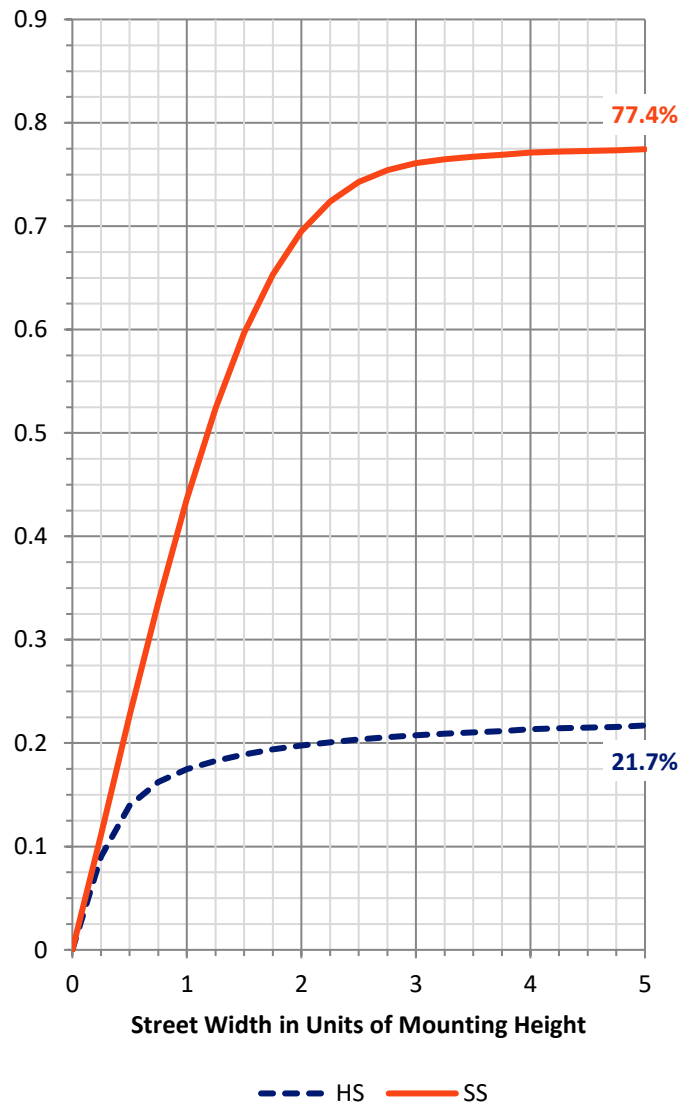
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.2	0.0	3388.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11826.2	0.0	11826.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	15214.4	0.0	15214.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.3
10°-20°	628.2	4.1
20°-30°	1096.6	7.2
30°-40°	1575.2	10.4
40°-50°	2180.0	14.3
50°-60°	3194.0	21.0
60°-70°	3894.1	25.6
70°-80°	2152.9	14.2
80°-90°	298.2	2.0
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°	15214.4	100.0
0°-180°	15214.4	100.0

Coefficient of Utilization



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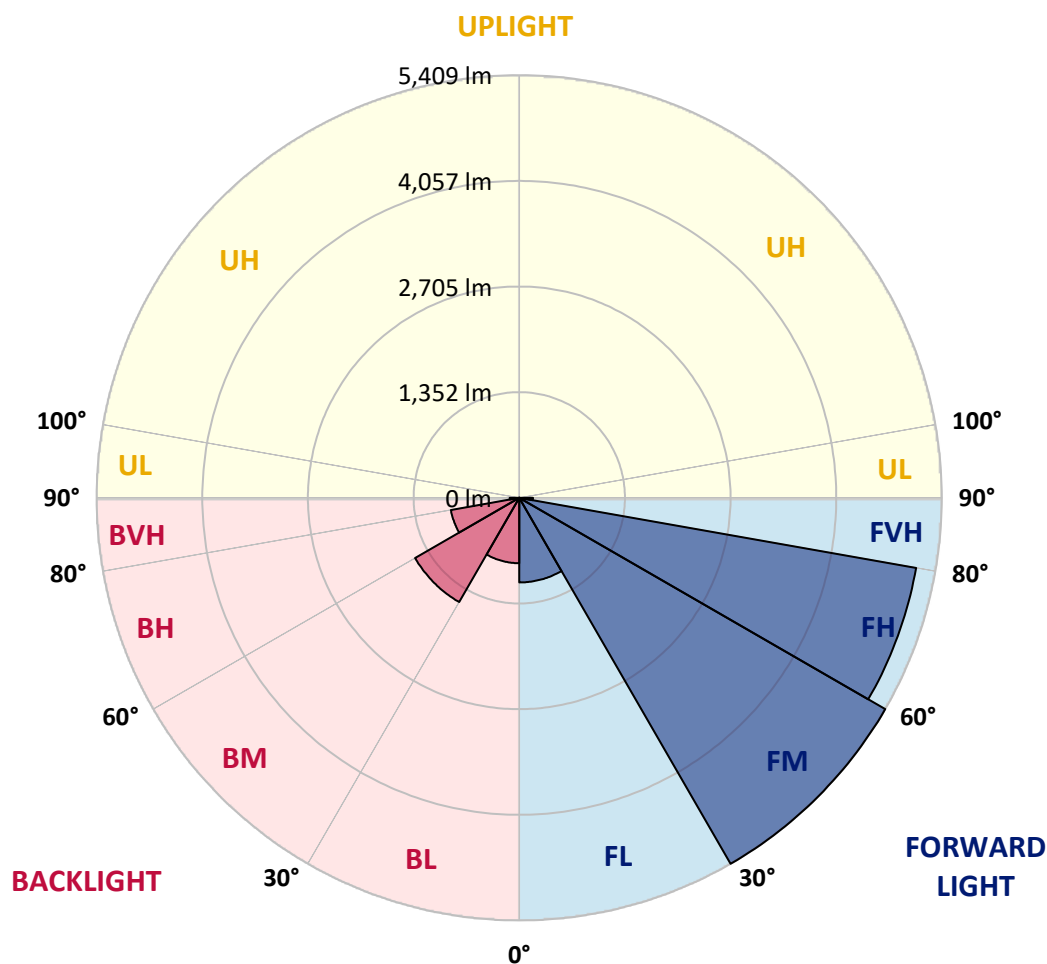
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.8	7.1			
FM	(30°-60°)	5409.3	35.6			
FH	(60°-80°)	5158.5	33.9			G3/7500
FVH	(80°-90°)	175.6	1.2			G2/225
BL	(0°-30°)	837.3	5.5	B2/1000		
BM	(30°-60°)	1539.9	10.1	B2/2500		
BH	(60°-80°)	888.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	122.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1
2.5°	2001.7	2003.7	2002.1	2006.4	2001.7	2004.8	2002.1	2002.1	2000.6	1995.8	1990.7
5°	2033.1	2037.3	2034.6	2038.9	2033.1	2034.2	2029.4	2029.4	2024.7	2014.7	2004.3
7.5°	2082.4	2087.1	2085.0	2089.1	2081.3	2081.3	2075.0	2074.5	2065.1	2048.8	2036.8
10°	2141.1	2147.4	2145.2	2151.5	2145.2	2147.4	2141.1	2141.1	2128.5	2105.4	2090.2
12.5°	2226.5	2234.3	2228.6	2228.1	2225.4	2229.7	2224.4	2223.4	2211.8	2180.3	2159.4
15°	2340.8	2349.1	2337.1	2336.0	2321.3	2319.7	2319.7	2318.2	2310.9	2273.1	2238.6
17.5°	2472.3	2474.9	2464.4	2447.7	2428.8	2416.8	2415.2	2419.4	2419.4	2375.4	2320.3
20°	2601.3	2606.0	2597.6	2578.7	2554.6	2536.7	2524.2	2532.6	2532.0	2479.6	2401.6
22.5°	2741.7	2752.7	2740.1	2716.0	2687.7	2667.8	2645.8	2653.1	2653.7	2589.2	2481.2
25°	2923.6	2913.6	2905.7	2871.7	2831.3	2810.9	2790.5	2797.8	2795.7	2707.1	2563.5
27.5°	3084.5	3086.6	3076.1	3040.0	2993.3	2948.2	2947.2	2951.9	2944.1	2829.7	2641.1
30°	3271.6	3272.7	3258.0	3225.5	3174.6	3116.4	3102.8	3110.7	3093.9	2946.1	2722.8
32.5°	3457.6	3462.9	3446.6	3407.4	3366.5	3295.7	3268.4	3273.7	3231.8	3065.1	2807.2
35°	3620.7	3628.0	3622.8	3596.6	3552.0	3491.2	3458.7	3455.6	3403.7	3210.8	2918.9
37.5°	3786.8	3793.6	3787.8	3765.8	3748.0	3683.6	3666.3	3666.3	3576.1	3359.6	3060.9
40°	3957.7	3968.2	3961.3	3931.0	3915.8	3886.4	3844.9	3835.0	3737.6	3538.4	3292.6
42.5°	4116.5	4130.1	4157.4	4139.5	4108.6	4112.9	4029.4	4024.3	3953.0	3802.6	3583.4
45°	4341.9	4361.8	4407.9	4394.3	4388.0	4364.9	4265.9	4261.2	4233.8	4157.9	3944.6
47.5°	4587.7	4615.0	4698.3	4700.9	4768.5	4725.0	4590.3	4574.0	4580.3	4583.5	4385.4
50°	4814.1	4844.0	4980.8	5045.2	5204.5	5214.0	4998.6	4984.0	5008.6	5080.9	4899.0
52.5°	4994.9	5032.6	5203.5	5402.6	5675.7	5753.3	5501.2	5490.2	5508.6	5633.3	5479.8
55°	5127.5	5168.4	5354.5	5717.2	6153.2	6290.0	6079.9	6069.3	6080.9	6239.7	6111.3
57.5°	5158.4	5168.4	5438.3	5928.9	6556.3	6884.9	6788.0	6767.0	6710.4	6848.7	6808.4
60°	5013.3	5053.1	5369.1	6003.3	6868.1	7471.4	7528.0	7501.8	7343.0	7456.3	7423.7
62.5°	4718.7	4790.0	5110.8	5890.1	6990.2	7950.5	8253.9	8222.5	7948.9	8022.2	7866.1
65°	4237.5	4267.9	4605.0	5499.7	6835.1	8257.1	8901.2	8885.5	8541.2	8426.4	7947.8
67.5°	3376.9	3434.0	3720.3	4683.6	6200.4	8220.9	9401.7	9400.2	8928.0	8576.3	7658.0
69°	2667.8	2727.1	2999.6	3858.1	5486.5	7890.2	9485.6	9503.9	9037.0	8485.1	7243.9
70°	2126.9	2195.6	2382.7	3249.6	4852.9	7454.1	9415.9	9448.9	9016.0	8334.7	6861.9
72.5°	905.2	960.7	1093.8	1675.1	2957.7	5566.2	8609.3	8734.0	8530.2	7628.2	5671.0
75°	395.2	412.5	472.8	682.9	1312.9	3029.5	6744.5	6975.1	7293.7	6447.8	4224.5
77.5°	289.3	296.7	329.6	400.9	589.1	1144.2	4337.2	4471.3	5260.1	4692.0	2591.3
80°	223.8	229.0	254.8	294.6	384.7	462.8	1978.1	2093.3	2957.7	2409.9	1079.2
82.5°	178.2	181.9	199.7	217.0	265.8	280.4	656.7	728.5	1091.8	665.7	285.7
85°	165.6	169.8	176.1	158.3	170.3	164.6	284.1	297.2	329.6	261.5	119.5
87.5°	75.0	88.6	174.5	123.2	90.7	72.3	116.4	121.6	136.8	137.3	53.0
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°	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1
2.5°	1993.8	1992.2	1994.8	1988.5	1996.4	1995.8	1993.2	1994.3	1999.5	1999.0	1999.5
5°	2005.8	2004.8	2008.0	2003.2	2012.7	2015.8	2016.3	2021.0	2026.8	2028.3	2028.3
7.5°	2036.2	2036.2	2037.8	2031.5	2037.8	2037.3	2034.6	2039.3	2045.2	2045.6	2045.2
10°	2088.6	2089.1	2086.6	2070.3	2065.1	2050.9	2037.8	2038.3	2045.6	2051.4	2053.0
12.5°	2154.7	2152.6	2141.1	2111.2	2089.1	2060.4	2046.8	2046.2	2053.5	2058.2	2059.8
15°	2230.1	2224.4	2194.5	2145.8	2107.0	2078.7	2056.7	2051.4	2047.2	2042.0	2042.5
17.5°	2301.4	2288.4	2238.6	2170.9	2130.1	2092.3	2049.9	2015.8	1992.2	1978.6	1974.4
20°	2373.8	2348.1	2276.2	2194.5	2142.7	2074.0	1992.2	1923.0	1880.0	1860.1	1856.4
22.5°	2439.8	2398.4	2311.4	2219.1	2132.7	2012.1	1883.7	1783.1	1723.3	1696.6	1698.7
25°	2504.2	2446.7	2348.1	2236.4	2082.4	1903.1	1732.8	1609.1	1539.9	1510.0	1508.9
27.5°	2560.9	2495.4	2387.9	2222.3	1988.5	1747.9	1554.0	1433.5	1375.8	1350.2	1346.0
30°	2625.9	2556.7	2440.8	2168.3	1851.2	1568.7	1379.5	1294.6	1253.7	1228.1	1223.3
32.5°	2705.0	2640.0	2484.3	2070.3	1675.6	1381.6	1243.2	1184.0	1146.8	1118.0	1112.7
35°	2820.3	2750.1	2495.4	1929.8	1482.7	1233.8	1143.1	1082.3	1032.0	994.8	991.2
37.5°	2965.0	2888.0	2470.2	1747.9	1295.6	1137.9	1059.8	984.9	919.3	866.9	858.5
40°	3173.6	3057.3	2400.5	1538.4	1157.8	1064.0	978.6	893.1	811.8	750.6	738.5
42.5°	3424.1	3255.8	2293.5	1329.7	1056.6	989.0	897.9	791.9	714.4	670.9	664.6
45°	3742.8	3462.4	2145.2	1147.3	957.1	914.0	810.8	713.4	665.1	633.2	627.9
47.5°	4106.6	3694.1	1989.5	999.0	872.7	843.9	741.1	678.2	639.9	614.8	610.0
50°	4553.6	3955.6	1824.5	877.4	787.8	759.5	708.1	658.8	628.5	609.0	604.3
52.5°	5057.8	4250.7	1705.5	781.5	717.5	697.1	690.8	648.4	623.7	609.0	604.3
55°	5600.8	4551.0	1577.1	700.8	656.7	662.5	679.3	649.4	632.6	614.8	608.0
57.5°	6144.3	4861.3	1434.0	632.6	608.5	636.8	671.4	651.5	637.4	620.0	613.7
60°	6574.1	5057.8	1212.3	575.5	570.2	608.5	652.5	635.8	617.5	617.9	616.9
62.5°	6774.8	5047.4	967.6	524.7	532.0	570.2	622.2	611.2	596.0	616.3	617.9
65°	6662.2	4795.8	753.2	478.5	491.1	530.4	590.7	599.1	604.3	643.7	648.8
67.5°	6189.4	4306.2	583.4	438.1	453.9	503.1	593.8	652.5	659.4	700.8	700.2
69°	5700.4	3847.1	506.8	417.2	435.5	510.0	634.7	686.6	661.0	704.9	698.6
70°	5290.5	3483.8	465.9	403.1	427.1	522.0	662.0	686.0	653.1	690.8	680.3
72.5°	4074.5	2506.4	395.2	376.9	398.9	499.5	669.8	670.9	634.7	642.1	624.2
75°	2794.6	1583.9	344.9	341.2	355.8	450.3	644.7	641.0	587.0	576.5	561.9
77.5°	1540.9	804.5	293.0	307.2	317.1	398.9	586.0	580.7	536.2	514.1	509.0
80°	594.4	352.2	247.3	273.1	279.4	345.4	513.7	509.0	471.7	443.4	435.5
82.5°	224.3	184.5	204.4	236.4	234.3	285.1	435.0	432.4	396.2	354.8	342.2
85°	103.8	110.6	162.0	195.0	179.8	211.2	348.0	352.7	308.7	259.5	259.5
87.5°	44.1	61.8	114.8	147.3	121.1	142.6	255.2	243.7	223.8	155.2	145.7
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)