

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: STREETWORKS

Report Number: P322150

Luminaire Tested: **GAN-SA6A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16986 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
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

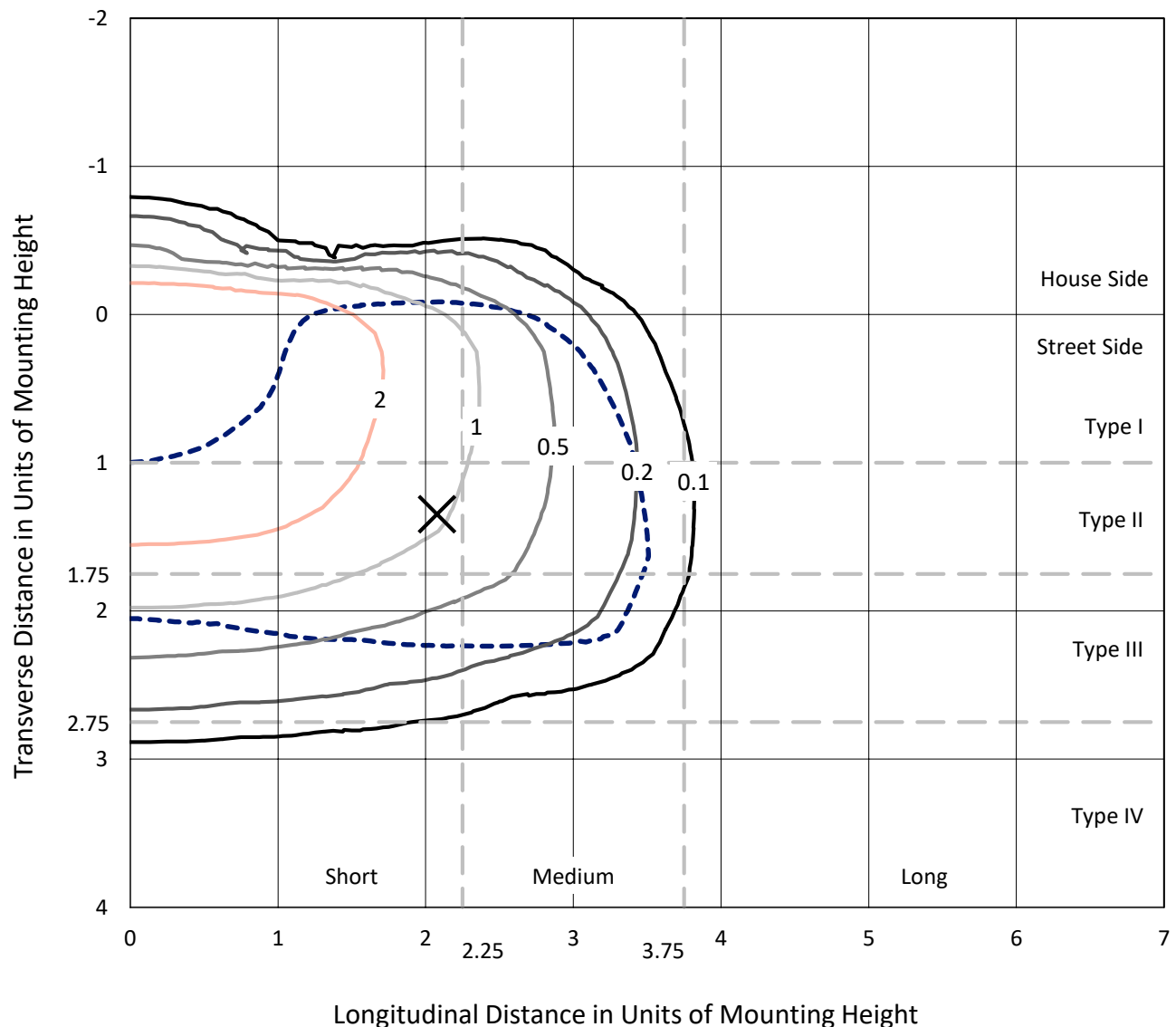


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Iso-Footcandle Lines of Horizontal Illumination

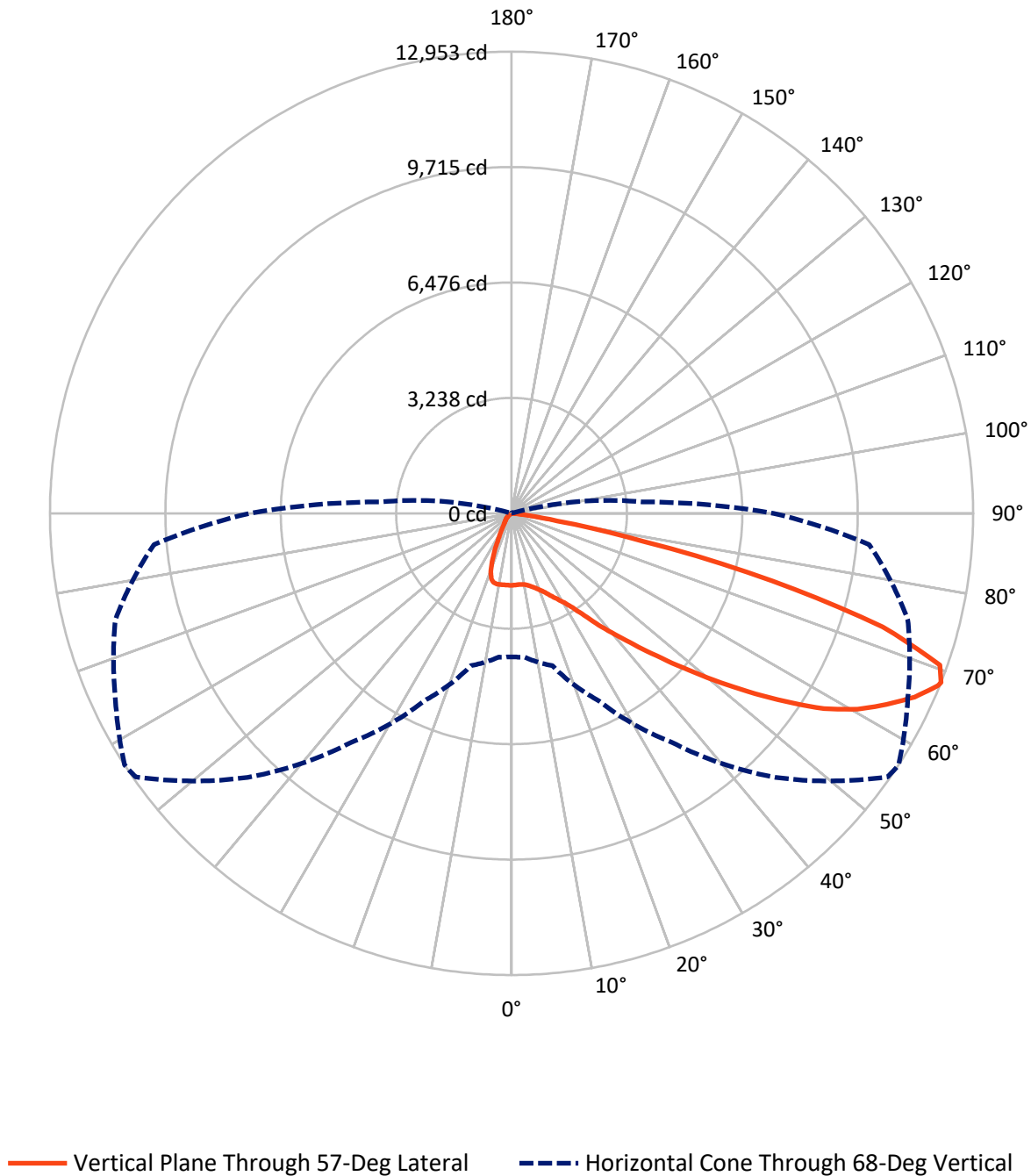
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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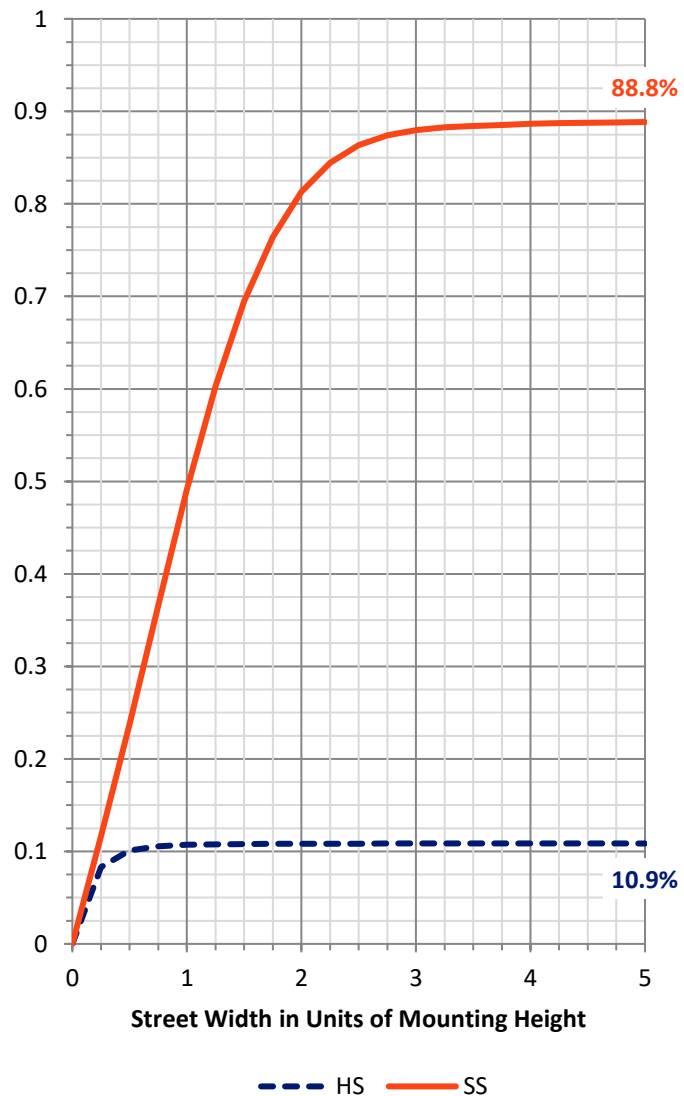
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.6	0.0	1862.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15123.4	0.0	15123.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	16986.0	0.0	16986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.1
10°-20°	523.4	3.1
20°-30°	903.0	5.3
30°-40°	1558.5	9.2
40°-50°	2665.8	15.7
50°-60°	4265.0	25.1
60°-70°	4927.8	29.0
70°-80°	1883.0	11.1
80°-90°	70.6	0.4
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°	16986.0	100.0
0°-180°	16986.0	100.0

Coefficient of Utilization



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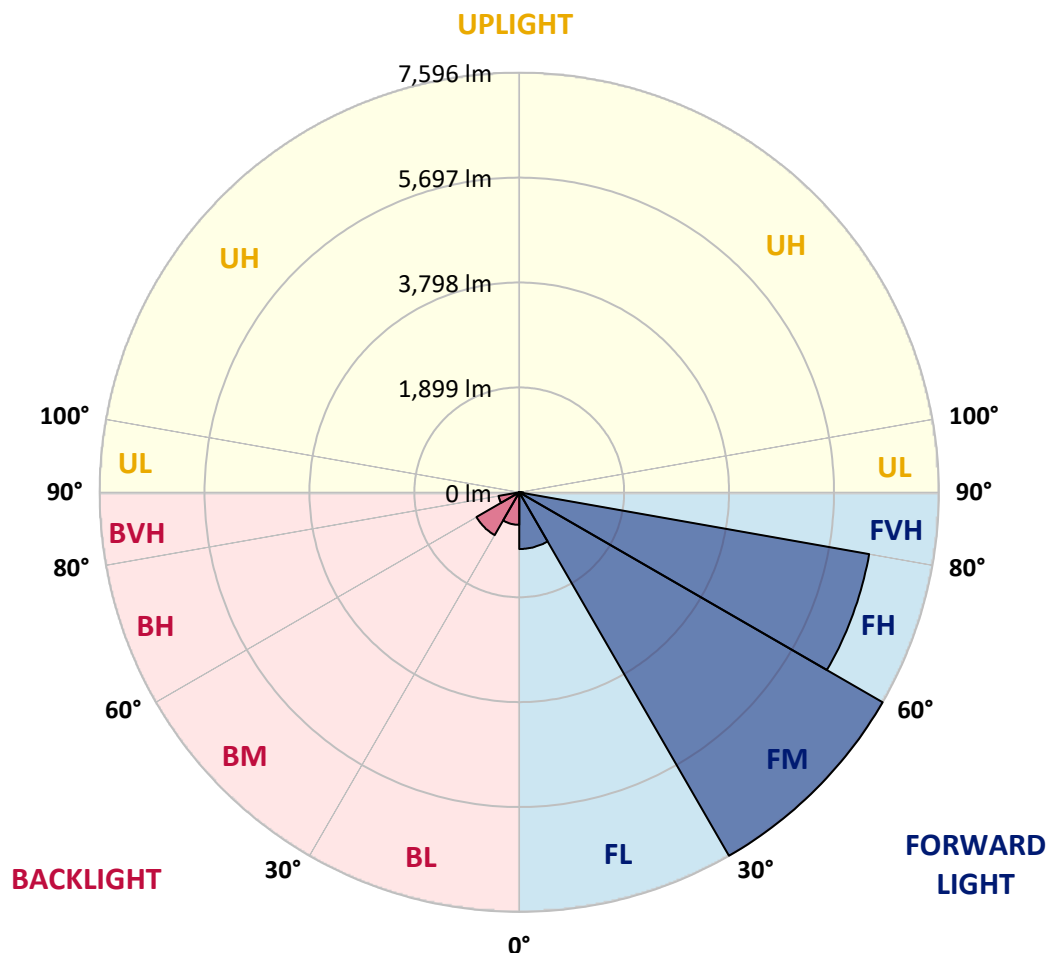
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.6	6.0			
FM	(30°-60°)	7596.0	44.7			
FH	(60°-80°)	6431.4	37.9			G3/7500
FVH	(80°-90°)	69.3	0.4			G1/100
BL	(0°-30°)	588.6	3.5	B2/1000		
BM	(30°-60°)	893.3	5.3	B1/1000		
BH	(60°-80°)	379.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
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°	57°	65°	75°	85°
0°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	1971.0	1979.8	1986.3	1990.3	1995.1	2005.5	2008.7	2013.6	2016.0	2016.0	2021.6
5°	1893.1	1902.7	1916.4	1927.6	1950.1	1979.0	1999.9	2007.9	2022.4	2035.3	2042.5
7.5°	1820.8	1832.0	1848.1	1874.6	1913.2	1959.8	2003.1	2014.4	2042.5	2069.8	2083.4
10°	1774.2	1783.1	1803.9	1841.7	1892.3	1957.3	2018.4	2032.0	2080.2	2126.0	2151.7
12.5°	1758.2	1766.2	1787.9	1830.4	1893.1	1969.4	2053.7	2073.8	2144.5	2211.1	2247.3
15°	1781.4	1783.1	1806.3	1846.5	1908.3	1999.1	2112.4	2136.5	2225.6	2312.3	2357.3
17.5°	1871.4	1864.2	1876.2	1893.9	1942.9	2038.5	2174.2	2210.3	2329.2	2431.2	2473.8
20°	2096.3	2096.3	2069.0	2020.8	2021.6	2099.5	2257.7	2298.7	2444.1	2562.1	2600.7
22.5°	2481.0	2473.8	2419.2	2301.1	2192.7	2204.7	2359.7	2412.7	2582.2	2708.3	2721.2
25°	2943.6	2934.8	2850.5	2684.2	2496.3	2375.0	2497.9	2558.9	2746.9	2858.5	2832.0
27.5°	3433.6	3426.4	3342.8	3136.4	2868.9	2646.5	2662.5	2720.4	2914.7	3024.8	2940.4
30°	3908.3	3910.7	3827.9	3615.9	3313.1	2992.6	2871.4	2905.1	3077.8	3189.4	3068.9
32.5°	4359.6	4362.9	4291.4	4054.4	3771.7	3395.0	3160.5	3151.7	3267.3	3377.4	3239.2
35°	4762.0	4770.1	4721.1	4537.1	4237.6	3843.2	3535.6	3514.7	3536.4	3660.9	3500.2
37.5°	5150.0	5154.8	5117.8	4962.8	4712.2	4335.6	4009.5	3979.7	3933.2	4028.7	3844.8
40°	5574.9	5562.8	5520.2	5379.7	5164.4	4879.3	4518.7	4467.3	4386.2	4471.3	4297.8
42.5°	5970.0	5956.4	5963.6	5804.6	5623.0	5438.3	5112.2	5023.9	4976.5	5074.5	4853.6
45°	6464.0	6456.7	6480.8	6342.7	6195.7	6061.6	5792.5	5696.1	5675.3	5790.1	5525.9
47.5°	6951.5	6969.2	7043.9	6985.2	6925.8	6807.7	6513.0	6469.6	6482.4	6621.4	6235.1
50°	7357.9	7378.8	7583.6	7651.1	7737.0	7667.9	7372.4	7345.9	7396.5	7521.8	6998.1
52.5°	7651.9	7694.4	7949.0	8259.9	8573.1	8619.7	8324.9	8300.8	8369.1	8388.4	7587.6
55°	7855.9	7893.6	8182.0	8750.6	9388.3	9589.1	9406.0	9312.8	9300.0	9109.6	8207.7
57.5°	7892.0	7888.0	8302.4	9067.9	10027.7	10545.7	10430.1	10338.5	10075.1	9776.3	8918.5
60°	7688.0	7711.3	8192.4	9177.9	10429.3	11269.4	11278.2	11159.3	10748.9	10424.4	9607.6
62.5°	7059.9	7154.7	7640.6	8889.6	10424.4	11560.9	11899.9	11809.1	11318.4	10955.3	10306.4
65°	6041.5	6075.2	6538.7	7901.7	9720.1	11438.9	12459.7	12426.0	11831.6	11471.0	10665.4
67.5°	4411.9	4338.8	4825.5	6222.2	8229.4	10727.2	12861.3	12903.8	12227.6	11577.0	10283.1
68°	4026.3	4048.0	4427.1	5807.0	7839.0	10475.8	12887.8	12952.8	12266.9	11507.9	10074.3
70°	2399.9	2441.7	2779.8	3998.2	5963.6	9053.4	12601.9	12750.4	12032.4	10795.5	8713.7
72.5°	612.8	662.6	982.3	1789.5	3406.3	6378.8	10638.1	10889.5	10446.9	8757.8	5882.5
75°	252.2	265.0	351.0	589.5	1269.0	2873.8	7011.7	7549.9	7242.2	5243.1	2658.5
77.5°	174.3	183.1	225.7	326.9	549.4	974.3	3437.6	3826.3	3447.2	1789.5	579.9
80°	125.3	132.5	161.4	217.7	315.6	347.8	1120.4	1295.5	1028.9	392.8	143.8
82.5°	74.7	80.3	120.5	155.0	192.0	166.3	278.7	316.5	298.0	195.2	64.3
85°	36.9	43.4	81.1	110.8	103.6	69.9	85.1	94.8	117.3	118.9	34.5
87.5°	2.4	4.8	47.4	66.7	28.9	16.1	24.9	30.5	41.8	58.6	14.5
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°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2024.0	2024.8	2019.2	2016.8	2018.4	2008.7	2004.7	2006.3	2006.3	2008.7	2004.7
5°	2044.1	2044.1	2034.4	2021.6	2014.4	1995.9	1983.8	1980.6	1978.2	1976.6	1973.4
7.5°	2087.5	2082.6	2065.8	2037.7	2013.6	1973.4	1942.9	1926.8	1918.8	1915.6	1913.2
10°	2157.3	2148.5	2120.4	2068.2	2012.8	1941.3	1874.6	1827.2	1787.9	1771.8	1762.2
12.5°	2251.3	2238.5	2191.1	2104.3	2007.1	1875.4	1730.8	1591.9	1462.6	1409.6	1383.1
15°	2359.7	2341.3	2266.6	2134.8	1974.2	1726.8	1412.8	1169.4	990.3	922.9	893.9
17.5°	2469.8	2445.7	2332.4	2154.1	1875.4	1419.2	991.1	748.6	628.9	596.8	585.5
20°	2580.6	2545.3	2389.5	2139.7	1652.1	1023.2	653.8	547.0	512.4	502.8	499.6
22.5°	2685.8	2631.2	2440.9	2083.4	1308.4	686.7	517.2	483.5	472.3	466.6	465.0
25°	2777.4	2701.1	2485.8	1910.0	926.1	518.9	465.8	454.6	440.1	429.7	430.5
27.5°	2863.3	2771.0	2513.1	1624.0	617.6	443.4	431.3	416.0	389.5	374.3	374.3
30°	2966.9	2864.1	2533.2	1249.7	454.6	392.0	382.3	359.0	322.9	302.8	302.8
32.5°	3122.8	3005.5	2520.4	877.1	376.7	344.6	322.1	289.9	250.6	231.3	230.5
35°	3361.3	3224.0	2428.8	575.1	332.5	299.6	263.4	224.1	189.5	173.5	172.7
37.5°	3682.6	3516.3	2223.2	411.2	298.0	257.8	214.4	171.1	145.4	134.9	134.1
40°	4099.4	3856.1	1929.2	333.3	265.9	217.7	165.5	132.5	114.9	106.8	107.6
42.5°	4599.8	4219.9	1576.6	287.5	234.5	179.1	129.3	104.4	93.2	87.5	85.9
45°	5155.6	4578.9	1207.2	256.2	203.2	144.6	101.2	82.7	73.9	70.7	70.7
47.5°	5766.8	4928.3	883.5	228.9	169.5	111.6	81.1	67.5	60.2	57.8	57.0
50°	6321.8	5170.9	636.9	200.0	138.9	88.3	65.9	56.2	51.4	48.2	48.2
52.5°	6784.4	5247.2	469.1	168.7	112.4	70.7	54.6	48.2	43.4	41.0	41.0
55°	7191.6	5215.8	348.6	138.9	90.8	57.8	46.6	41.0	36.9	34.5	34.5
57.5°	7582.0	5114.6	260.2	113.2	73.1	46.6	39.4	34.5	30.5	28.9	28.9
60°	7900.9	4946.0	193.6	91.6	58.6	37.7	32.9	28.1	24.9	22.5	22.5
62.5°	8159.5	4759.6	142.2	75.5	46.6	29.7	25.7	23.3	18.5	16.1	16.1
65°	8161.1	4450.4	106.8	62.6	36.1	23.3	19.3	18.5	12.0	9.6	8.8
67.5°	7570.7	3836.8	81.9	53.8	28.1	17.7	14.5	15.3	6.4	4.0	3.2
68°	7356.3	3681.0	77.1	53.0	26.5	16.9	13.7	15.3	5.6	3.2	2.4
70°	6202.1	2928.4	61.8	51.4	23.3	12.9	11.2	15.3	4.8	2.4	1.6
72.5°	3966.9	1699.5	45.8	41.0	17.7	9.6	7.2	13.7	4.8	1.6	0.8
75°	1688.3	526.9	31.3	28.9	10.4	7.2	4.8	8.8	3.2	0.8	0.0
77.5°	355.8	118.9	18.5	17.7	7.2	4.8	3.2	2.4	0.8	0.0	0.0
80°	91.6	34.5	9.6	8.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0
82.5°	28.9	13.7	5.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)