

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: P322309

Luminaire Tested: **GAN-SA5A-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322309
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-SA5A-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 16973 lumens
Efficiency: N/A
Efficacy: 104.8 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): 162
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

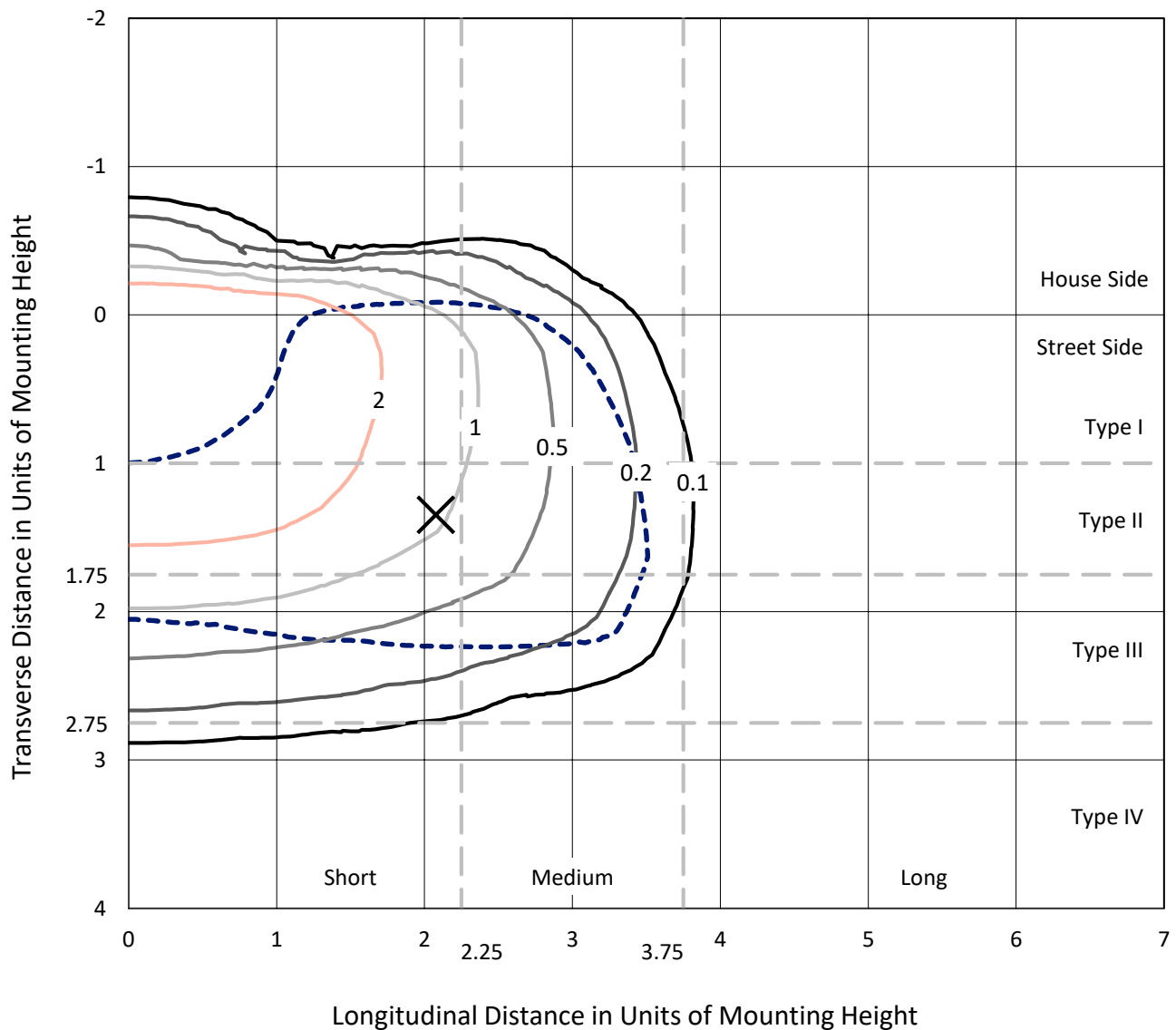


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Iso-Footcandle Lines of Horizontal Illumination

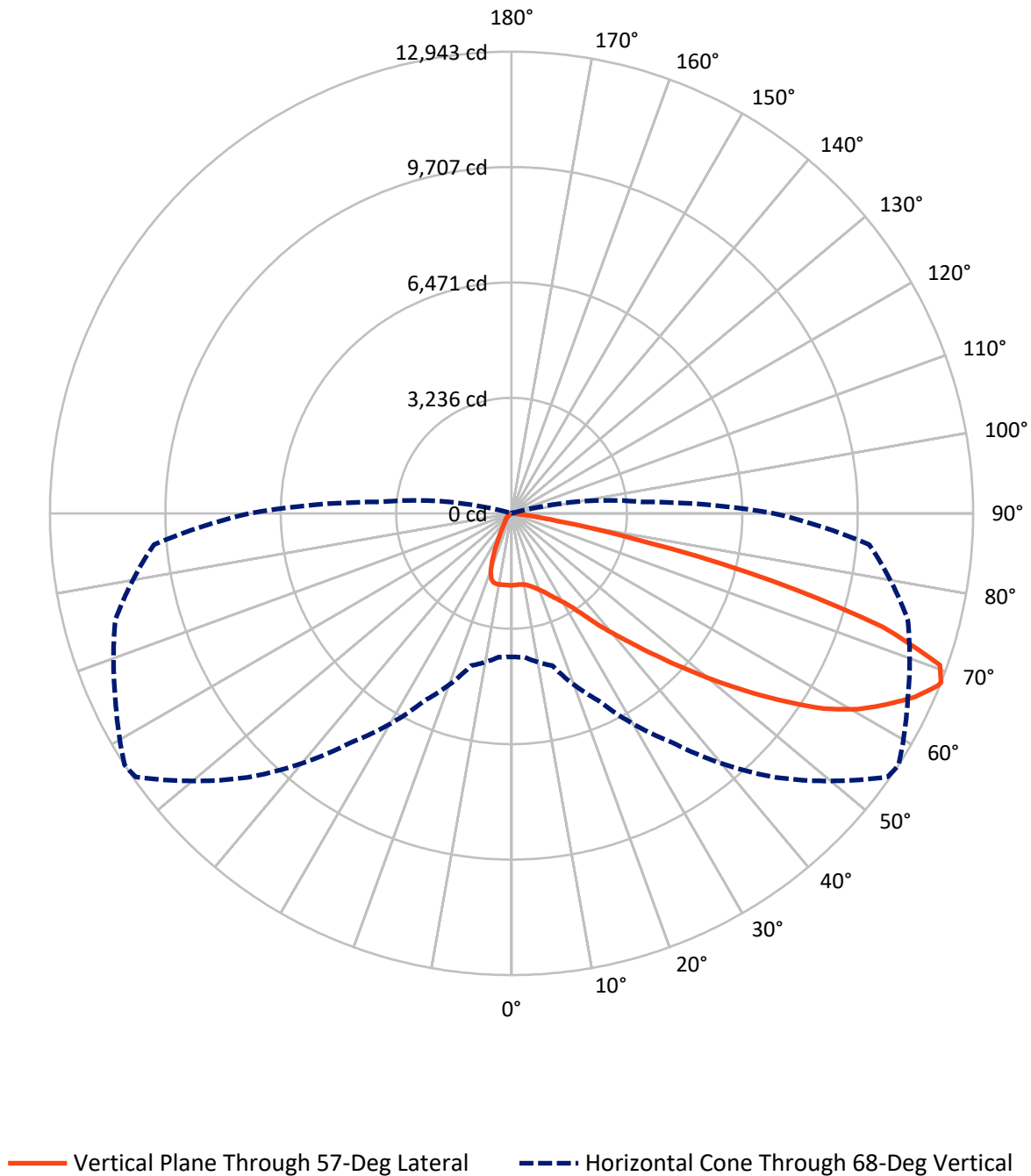
✕ Max cd
 - - - 1/2 Max cd



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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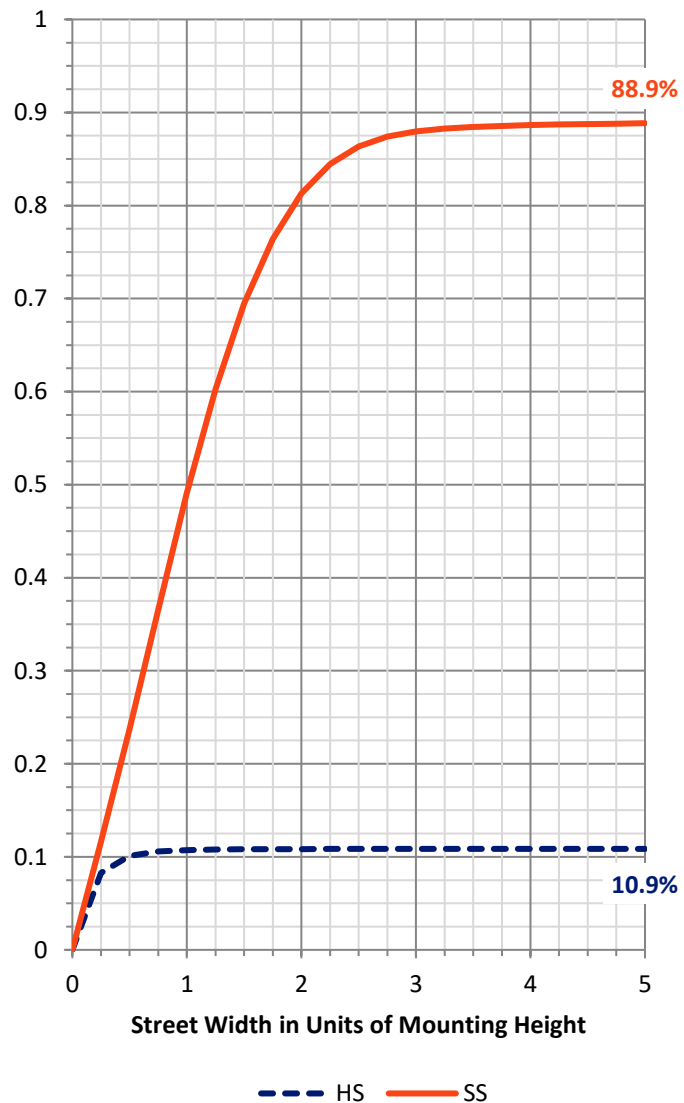
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.2	0.0	1861.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15111.8	0.0	15111.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	16973.0	0.0	16973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.1
10°-20°	523.0	3.1
20°-30°	902.3	5.3
30°-40°	1557.3	9.2
40°-50°	2663.8	15.7
50°-60°	4261.8	25.1
60°-70°	4924.0	29.0
70°-80°	1881.5	11.1
80°-90°	70.5	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°	16973.0	100.0
0°-180°	16973.0	100.0

Coefficient of Utilization



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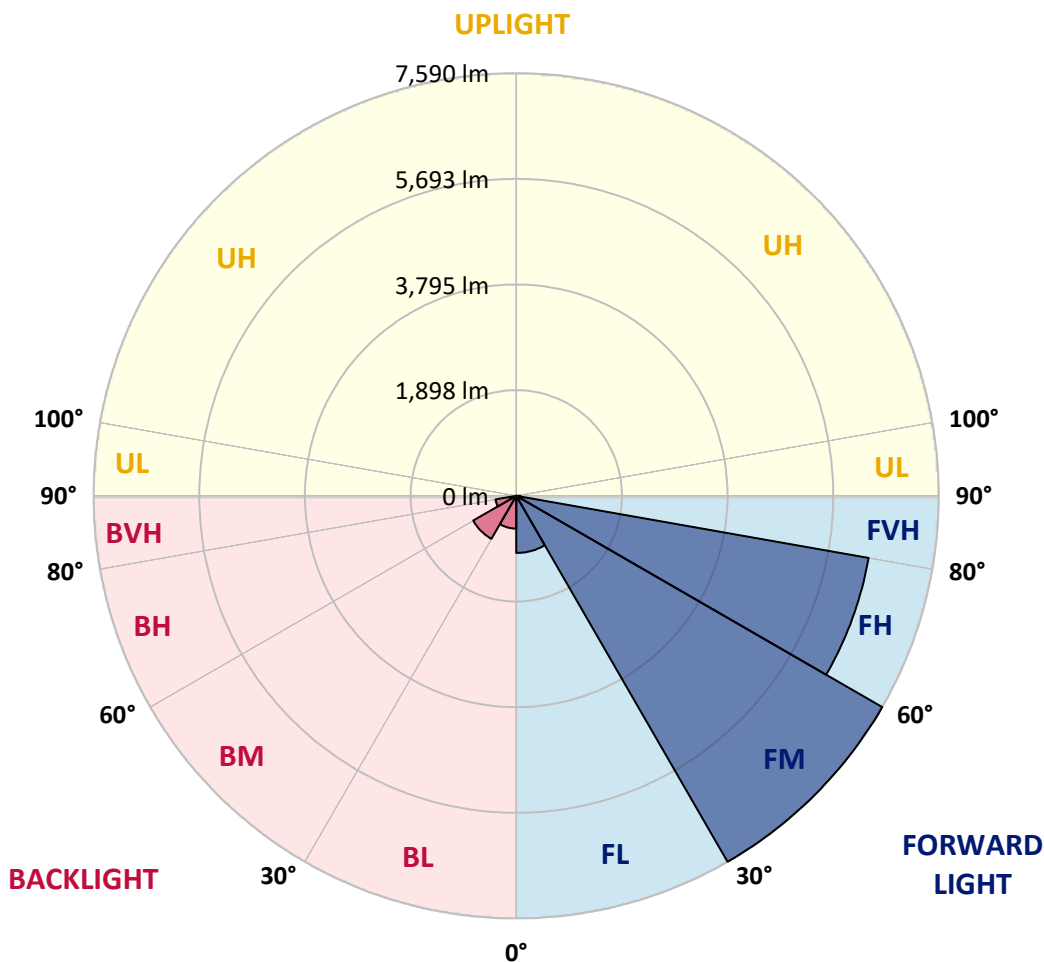
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.9	6.0			
FM	(30°-60°)	7590.2	44.7			
FH	(60°-80°)	6426.5	37.9			G3/7500
FVH	(80°-90°)	69.2	0.4			G1/100
BL	(0°-30°)	588.2	3.5	B2/1000		
BM	(30°-60°)	892.7	5.3	B1/1000		
BH	(60°-80°)	379.0	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°	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8
2.5°	1969.5	1978.3	1984.7	1988.8	1993.6	2004.0	2007.2	2012.0	2014.4	2014.4	2020.1
5°	1891.6	1901.3	1914.9	1926.2	1948.6	1977.5	1998.4	2006.4	2020.9	2033.7	2040.9
7.5°	1819.4	1830.6	1846.7	1873.2	1911.7	1958.3	2001.6	2012.8	2040.9	2068.2	2081.8
10°	1772.9	1781.7	1802.6	1840.3	1890.8	1955.8	2016.8	2030.5	2078.6	2124.4	2150.1
12.5°	1756.8	1764.8	1786.5	1829.0	1891.6	1967.9	2052.2	2072.2	2142.8	2209.5	2245.6
15°	1780.1	1781.7	1805.0	1845.1	1906.9	1997.6	2110.7	2134.8	2223.9	2310.6	2355.5
17.5°	1870.0	1862.7	1874.8	1892.4	1941.4	2036.9	2172.5	2208.7	2327.4	2429.4	2471.9
20°	2094.7	2094.7	2067.4	2019.2	2020.1	2097.9	2256.0	2296.9	2442.2	2560.2	2598.7
22.5°	2479.1	2471.9	2417.3	2299.3	2191.0	2203.0	2357.9	2410.9	2580.2	2706.2	2719.1
25°	2941.4	2932.6	2848.3	2682.2	2494.4	2373.2	2496.0	2557.0	2744.8	2856.3	2829.8
27.5°	3431.0	3423.7	3340.3	3134.0	2866.8	2644.4	2660.5	2718.3	2912.5	3022.5	2938.2
30°	3905.3	3907.7	3825.0	3613.1	3310.6	2990.3	2869.2	2902.9	3075.4	3187.0	3066.6
32.5°	4356.3	4359.5	4288.1	4051.3	3768.8	3392.4	3158.1	3149.3	3264.8	3374.8	3236.7
35°	4758.4	4766.4	4717.5	4533.7	4234.3	3840.3	3532.9	3512.0	3533.7	3658.1	3497.6
37.5°	5146.0	5150.8	5113.9	4959.0	4708.6	4332.2	4006.4	3976.7	3930.1	4025.7	3841.9
40°	5570.6	5558.5	5516.0	5375.6	5160.5	4875.6	4515.2	4463.9	4382.8	4467.9	4294.5
42.5°	5965.4	5951.8	5959.0	5800.1	5618.7	5434.2	5108.3	5020.0	4972.7	5070.6	4849.9
45°	6459.0	6451.8	6475.9	6337.8	6191.0	6056.9	5788.1	5691.8	5670.9	5785.7	5521.6
47.5°	6946.2	6963.8	7038.5	6979.9	6920.5	6802.5	6508.0	6464.6	6477.5	6616.3	6230.3
50°	7352.3	7373.1	7577.8	7645.2	7731.1	7662.1	7366.7	7340.2	7390.8	7516.0	6992.7
52.5°	7646.0	7688.5	7943.0	8253.6	8566.6	8613.1	8318.6	8294.5	8362.7	8382.0	7581.8
55°	7849.9	7887.6	8175.7	8743.9	9381.2	9581.8	9398.8	9305.7	9292.9	9102.7	8201.4
57.5°	7886.0	7882.0	8296.1	9060.9	10020.0	10537.6	10422.1	10330.6	10067.3	9768.8	8911.7
60°	7682.1	7705.4	8186.1	9170.9	10421.3	11260.8	11269.6	11150.8	10740.7	10416.5	9600.3
62.5°	7054.5	7149.2	7634.8	8882.8	10416.5	11552.1	11890.8	11800.1	11309.7	10947.0	10298.5
65°	6036.9	6070.6	6533.7	7895.6	9712.6	11430.1	12450.2	12416.4	11822.6	11462.2	10657.2
67.5°	4408.5	4335.4	4821.8	6217.5	8223.1	10719.0	12851.4	12894.0	12218.2	11568.1	10275.2
68°	4023.2	4044.9	4423.7	5802.5	7833.0	10467.8	12877.9	12942.9	12257.5	11499.1	10066.5
70°	2398.1	2439.8	2777.7	3995.2	5959.0	9046.5	12592.2	12740.7	12023.2	10787.2	8707.0
72.5°	612.4	662.1	981.5	1788.1	3403.7	6374.0	10629.9	10881.1	10438.9	8751.1	5878.0
75°	252.0	264.8	350.7	589.1	1268.0	2871.6	7006.4	7544.1	7236.7	5239.1	2656.5
77.5°	174.2	183.0	225.5	326.6	549.0	973.5	3435.0	3823.4	3444.6	1788.1	579.5
80°	125.2	132.4	161.3	217.5	315.4	347.5	1119.6	1294.5	1028.1	392.5	143.7
82.5°	74.6	80.3	120.4	154.9	191.8	166.1	278.5	316.2	297.8	195.0	64.2
85°	36.9	43.3	81.1	110.8	103.5	69.8	85.1	94.7	117.2	118.8	34.5
87.5°	2.4	4.8	47.4	66.6	28.9	16.1	24.9	30.5	41.7	58.6	14.4
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°	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8
2.5°	2022.5	2023.3	2017.6	2015.2	2016.8	2007.2	2003.2	2004.8	2004.8	2007.2	2003.2
5°	2042.5	2042.5	2032.9	2020.1	2012.8	1994.4	1982.3	1979.1	1976.7	1975.1	1971.9
7.5°	2085.9	2081.0	2064.2	2036.1	2012.0	1971.9	1941.4	1925.3	1917.3	1914.1	1911.7
10°	2155.7	2146.9	2118.8	2066.6	2011.2	1939.8	1873.2	1825.8	1786.5	1770.5	1760.8
12.5°	2249.6	2236.7	2189.4	2102.7	2005.6	1874.0	1729.5	1590.7	1461.5	1408.5	1382.0
15°	2357.9	2339.5	2264.8	2133.2	1972.7	1725.5	1411.7	1168.5	989.6	922.1	893.3
17.5°	2467.9	2443.8	2330.6	2152.5	1874.0	1418.1	990.4	748.0	628.4	596.3	585.1
20°	2578.6	2543.3	2387.6	2138.0	1650.9	1022.5	653.3	546.5	512.0	502.4	499.2
22.5°	2683.8	2629.2	2439.0	2081.8	1307.4	686.2	516.9	483.1	471.9	466.3	464.7
25°	2775.3	2699.0	2483.9	1908.5	925.4	518.5	465.5	454.3	439.8	429.4	430.2
27.5°	2861.1	2768.8	2511.2	1622.8	617.2	443.0	431.0	415.7	389.2	374.0	374.0
30°	2964.7	2861.9	2531.3	1248.8	454.3	391.7	382.0	358.7	322.6	302.6	302.6
32.5°	3120.4	3003.2	2518.4	876.4	376.4	344.3	321.8	289.7	250.4	231.1	230.3
35°	3358.7	3221.5	2426.9	574.6	332.3	299.4	263.2	223.9	189.4	173.4	172.6
37.5°	3679.7	3513.6	2221.5	410.9	297.8	257.6	214.3	170.9	145.3	134.8	134.0
40°	4096.3	3853.1	1927.8	333.1	265.6	217.5	165.3	132.4	114.8	106.7	107.5
42.5°	4596.3	4216.7	1575.4	287.3	234.3	179.0	129.2	104.3	93.1	87.5	85.9
45°	5151.6	4575.4	1206.3	256.0	203.0	144.5	101.1	82.7	73.8	70.6	70.6
47.5°	5762.4	4924.5	882.8	228.7	169.3	111.6	81.1	67.4	60.2	57.8	57.0
50°	6317.0	5166.9	636.4	199.8	138.8	88.3	65.8	56.2	51.4	48.2	48.2
52.5°	6779.2	5243.1	468.7	168.5	112.4	70.6	54.6	48.2	43.3	40.9	40.9
55°	7186.1	5211.8	348.3	138.8	90.7	57.8	46.5	40.9	36.9	34.5	34.5
57.5°	7576.2	5110.7	260.0	113.2	73.0	46.5	39.3	34.5	30.5	28.9	28.9
60°	7894.8	4942.2	193.4	91.5	58.6	37.7	32.9	28.1	24.9	22.5	22.5
62.5°	8153.2	4756.0	142.1	75.4	46.5	29.7	25.7	23.3	18.5	16.1	16.1
65°	8154.8	4447.0	106.7	62.6	36.1	23.3	19.3	18.5	12.0	9.6	8.8
67.5°	7565.0	3833.8	81.9	53.8	28.1	17.7	14.4	15.2	6.4	4.0	3.2
68°	7350.7	3678.1	77.0	53.0	26.5	16.9	13.6	15.2	5.6	3.2	2.4
70°	6197.4	2926.1	61.8	51.4	23.3	12.8	11.2	15.2	4.8	2.4	1.6
72.5°	3963.9	1698.2	45.7	40.9	17.7	9.6	7.2	13.6	4.8	1.6	0.8
75°	1687.0	526.5	31.3	28.9	10.4	7.2	4.8	8.8	3.2	0.8	0.0
77.5°	355.5	118.8	18.5	17.7	7.2	4.8	3.2	2.4	0.8	0.0	0.0
80°	91.5	34.5	9.6	8.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0
82.5°	28.9	13.6	5.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	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)