

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: P322318

Luminaire Tested: **GAN-SA4B-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322318
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-SA4B-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 16798 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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



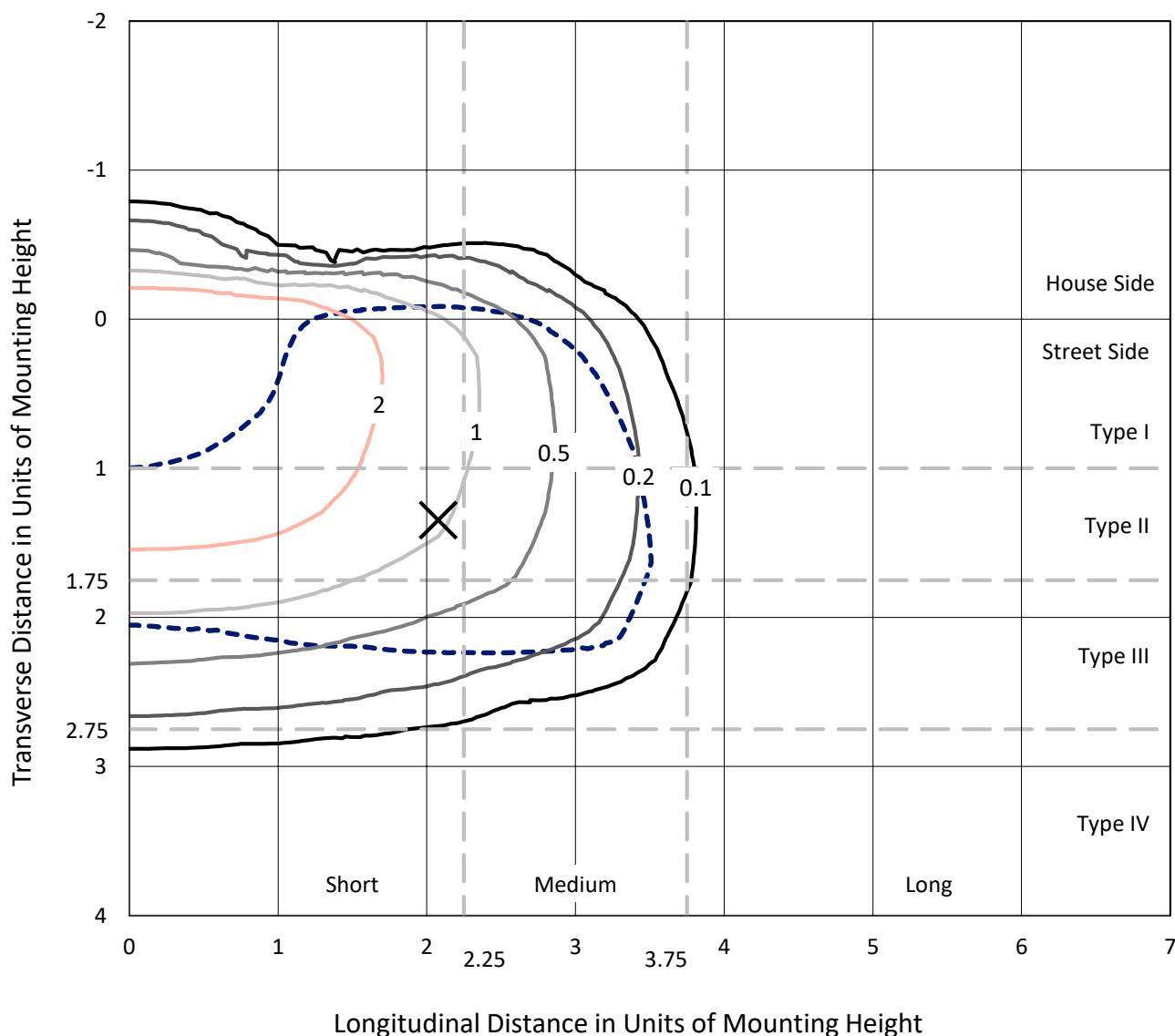
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

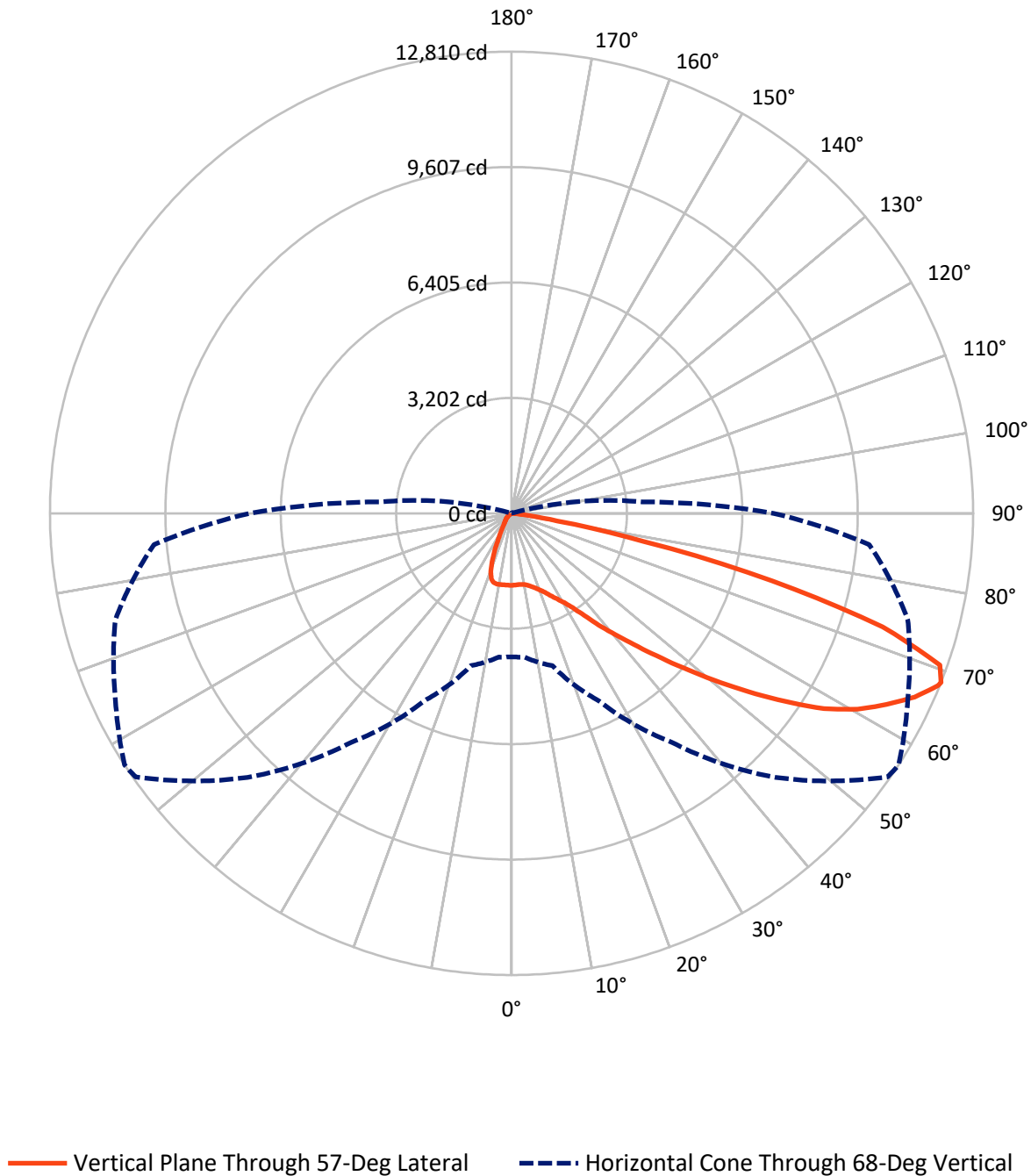


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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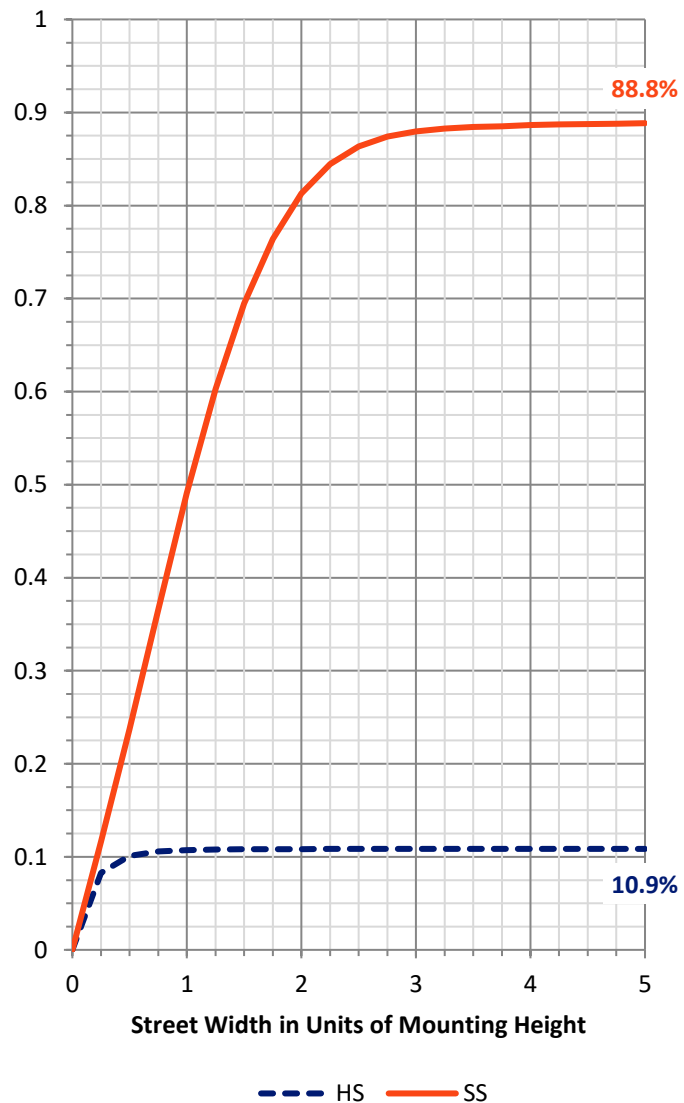
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.0	0.0	1842.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14956.0	0.0	14956.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	16798.0	0.0	16798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.1
10°-20°	517.6	3.1
20°-30°	893.0	5.3
30°-40°	1541.2	9.2
40°-50°	2636.3	15.7
50°-60°	4217.8	25.1
60°-70°	4873.3	29.0
70°-80°	1862.1	11.1
80°-90°	69.8	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°	16798.0	100.0
0°-180°	16798.0	100.0

Coefficient of Utilization



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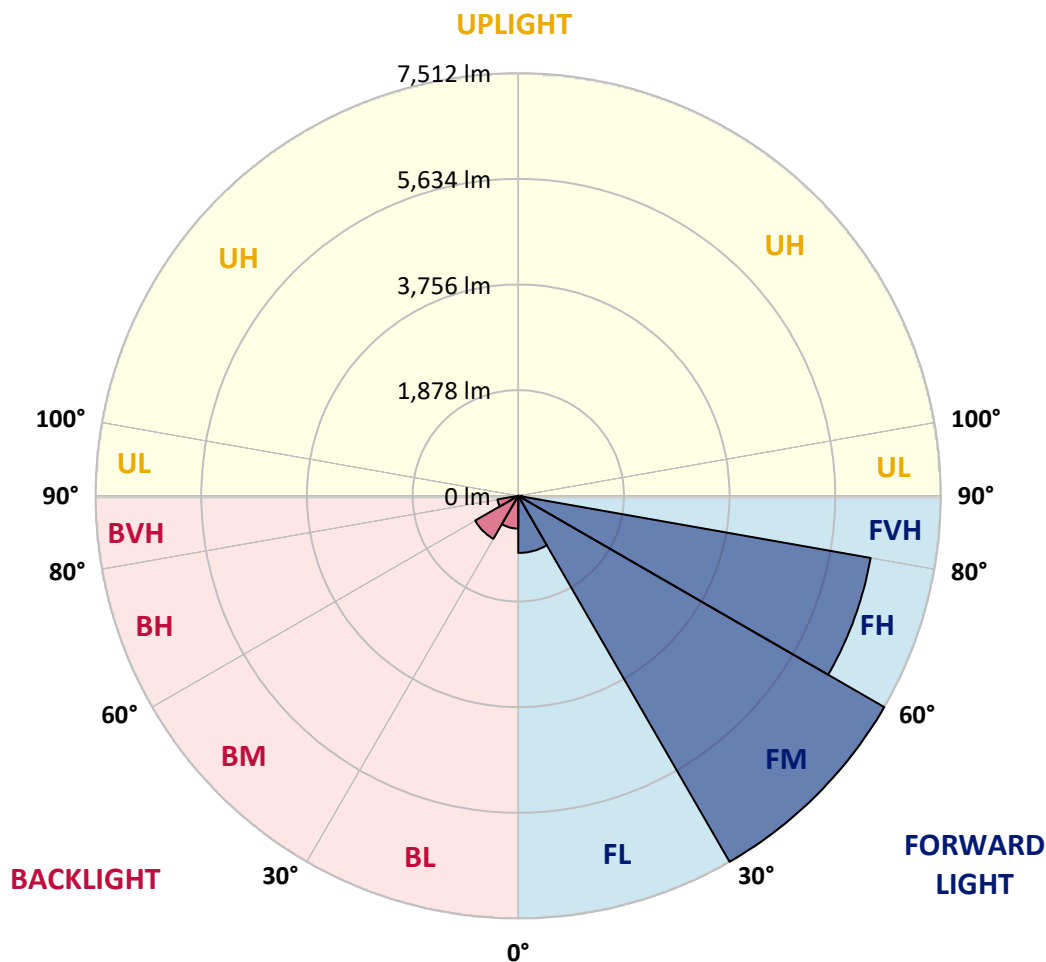
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.3	6.0			
FM	(30°-60°)	7511.9	44.7			
FH	(60°-80°)	6360.3	37.9			G3/7500
FVH	(80°-90°)	68.5	0.4			G1/100
BL	(0°-30°)	582.1	3.5	B2/1000		
BM	(30°-60°)	883.5	5.3	B1/1000		
BH	(60°-80°)	375.1	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°	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0
2.5°	1949.2	1957.9	1964.3	1968.2	1973.0	1983.3	1986.5	1991.3	1993.7	1993.7	1999.2
5°	1872.1	1881.7	1895.2	1906.3	1928.5	1957.1	1977.8	1985.7	2000.0	2012.7	2019.9
7.5°	1800.7	1811.8	1827.7	1853.9	1892.0	1938.1	1981.0	1992.1	2019.9	2046.9	2060.4
10°	1754.6	1763.3	1784.0	1821.3	1871.3	1935.7	1996.0	2009.5	2057.2	2102.5	2127.9
12.5°	1738.7	1746.6	1768.1	1810.2	1872.1	1947.6	2031.0	2050.9	2120.7	2186.7	2222.4
15°	1761.7	1763.3	1786.4	1826.1	1887.2	1977.0	2089.0	2112.8	2201.0	2286.8	2331.2
17.5°	1850.7	1843.5	1855.5	1872.9	1921.4	2015.9	2150.1	2185.9	2303.4	2404.3	2446.4
20°	2073.1	2073.1	2046.1	1998.4	1999.2	2076.3	2232.7	2273.3	2417.0	2533.8	2571.9
22.5°	2453.6	2446.4	2392.4	2275.6	2168.4	2180.3	2333.6	2386.0	2553.6	2678.3	2691.0
25°	2911.1	2902.3	2818.9	2654.5	2468.6	2348.7	2470.2	2530.6	2716.5	2826.9	2800.7
27.5°	3395.6	3388.4	3305.8	3101.7	2837.2	2617.2	2633.1	2690.3	2882.5	2991.3	2907.9
30°	3865.0	3867.4	3785.6	3575.9	3276.4	2959.5	2839.6	2872.9	3043.7	3154.1	3035.0
32.5°	4311.4	4314.6	4243.9	4009.6	3730.0	3357.5	3125.5	3116.8	3231.2	3340.0	3203.4
35°	4709.3	4717.3	4668.8	4486.9	4190.7	3800.7	3496.5	3475.8	3497.2	3620.4	3461.5
37.5°	5093.0	5097.7	5061.2	4907.9	4660.1	4287.6	3965.1	3935.7	3889.6	3984.1	3802.3
40°	5513.2	5501.2	5459.1	5320.1	5107.3	4825.3	4468.7	4417.8	4337.6	4421.8	4250.2
42.5°	5903.9	5890.4	5897.6	5740.3	5560.8	5378.1	5055.6	4968.3	4921.4	5018.3	4799.9
45°	6392.4	6385.3	6409.1	6272.5	6127.1	5994.5	5728.4	5633.1	5612.4	5726.0	5464.7
47.5°	6874.6	6892.0	6965.9	6907.9	6849.1	6732.4	6440.9	6398.0	6410.7	6548.1	6166.1
50°	7276.5	7297.1	7499.7	7566.4	7651.4	7583.1	7290.8	7264.6	7314.6	7438.5	6920.6
52.5°	7567.2	7609.3	7861.1	8168.5	8478.2	8524.3	8232.8	8209.0	8276.5	8295.5	7503.6
55°	7768.9	7806.3	8091.4	8653.8	9284.4	9483.0	9301.9	9209.8	9197.1	9008.8	8116.8
57.5°	7804.7	7800.7	8210.6	8967.5	9916.7	10429.0	10314.6	10224.1	9963.5	9668.1	8819.8
60°	7602.9	7626.0	8101.7	9076.3	10313.8	11144.7	11153.4	11035.8	10630.0	10309.1	9501.3
62.5°	6981.8	7075.5	7556.1	8791.2	10309.1	11433.0	11768.2	11678.4	11193.1	10834.1	10192.3
65°	5974.6	6008.0	6466.3	7814.2	9612.5	11312.2	12321.8	12288.4	11700.7	11344.0	10547.3
67.5°	4363.0	4290.7	4772.1	6153.3	8138.3	10608.5	12718.9	12761.0	12092.2	11448.9	10169.3
68°	3981.8	4003.2	4378.1	5742.7	7752.2	10359.9	12745.1	12809.5	12131.2	11380.6	9962.8
70°	2373.3	2414.6	2749.0	3954.0	5897.6	8953.2	12462.4	12609.3	11899.2	10676.0	8617.2
72.5°	606.0	655.3	971.4	1769.7	3368.6	6308.2	10520.3	10769.0	10331.3	8660.9	5817.4
75°	249.4	262.1	347.1	583.0	1255.0	2842.0	6934.1	7466.3	7162.1	5185.1	2629.1
77.5°	172.4	181.1	223.2	323.3	543.3	963.5	3399.6	3784.0	3409.1	1769.7	573.5
80°	123.9	131.1	159.7	215.3	312.2	343.9	1108.0	1281.2	1017.5	388.4	142.2
82.5°	73.9	79.4	119.1	153.3	189.8	164.4	275.6	312.9	294.7	193.0	63.5
85°	36.5	42.9	80.2	109.6	102.5	69.1	84.2	93.7	116.0	117.6	34.2
87.5°	2.4	4.8	46.9	65.9	28.6	15.9	24.6	30.2	41.3	58.0	14.3
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°	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0
2.5°	2001.6	2002.4	1996.8	1994.5	1996.0	1986.5	1982.5	1984.1	1984.1	1986.5	1982.5
5°	2021.5	2021.5	2011.9	1999.2	1992.1	1973.8	1961.9	1958.7	1956.3	1954.7	1951.6
7.5°	2064.4	2059.6	2042.9	2015.1	1991.3	1951.6	1921.4	1905.5	1897.6	1894.4	1892.0
10°	2133.5	2124.7	2096.9	2045.3	1990.5	1919.8	1853.9	1807.0	1768.1	1752.2	1742.7
12.5°	2226.4	2213.7	2166.8	2081.0	1984.9	1854.7	1711.7	1574.3	1446.4	1394.0	1367.8
15°	2333.6	2315.3	2241.5	2111.2	1952.4	1707.7	1397.2	1156.5	979.4	912.6	884.0
17.5°	2442.4	2418.6	2306.6	2130.3	1854.7	1403.5	980.2	740.3	621.9	590.2	579.0
20°	2552.0	2517.1	2363.0	2116.0	1633.9	1011.9	646.6	540.9	506.8	497.2	494.0
22.5°	2656.1	2602.1	2413.8	2060.4	1293.9	679.1	511.5	478.2	467.0	461.5	459.9
25°	2746.6	2671.2	2458.3	1888.8	915.8	513.1	460.7	449.6	435.3	424.9	425.7
27.5°	2831.6	2740.3	2485.3	1606.0	610.8	438.4	426.5	411.4	385.2	370.1	370.1
30°	2934.1	2832.4	2505.2	1235.9	449.6	387.6	378.1	355.0	319.3	299.4	299.4
32.5°	3088.2	2972.2	2492.5	867.4	372.5	340.7	318.5	286.7	247.8	228.8	228.0
35°	3324.1	3188.3	2401.9	568.7	328.8	296.3	260.5	221.6	187.5	171.6	170.8
37.5°	3641.8	3477.4	2198.6	406.7	294.7	255.0	212.1	169.2	143.8	133.4	132.6
40°	4054.0	3813.4	1907.9	329.6	262.9	215.3	163.6	131.1	113.6	105.6	106.4
42.5°	4548.9	4173.2	1559.2	284.4	231.9	177.1	127.9	103.3	92.1	86.6	85.0
45°	5098.5	4528.2	1193.8	253.4	201.0	143.0	100.1	81.8	73.1	69.9	69.9
47.5°	5703.0	4873.8	873.7	226.4	167.6	110.4	80.2	66.7	59.6	57.2	56.4
50°	6251.8	5113.6	629.9	197.8	137.4	87.4	65.1	55.6	50.8	47.7	47.7
52.5°	6709.3	5189.1	463.9	166.8	111.2	69.9	54.0	47.7	42.9	40.5	40.5
55°	7112.1	5158.1	344.7	137.4	89.8	57.2	46.1	40.5	36.5	34.2	34.2
57.5°	7498.1	5058.0	257.3	112.0	72.3	46.1	38.9	34.2	30.2	28.6	28.6
60°	7813.4	4891.2	191.4	90.5	58.0	37.3	32.6	27.8	24.6	22.2	22.2
62.5°	8069.2	4706.9	140.6	74.7	46.1	29.4	25.4	23.0	18.3	15.9	15.9
65°	8070.8	4401.1	105.6	62.0	35.7	23.0	19.1	18.3	11.9	9.5	8.7
67.5°	7487.0	3794.3	81.0	53.2	27.8	17.5	14.3	15.1	6.4	4.0	3.2
68°	7274.9	3640.2	76.3	52.4	26.2	16.7	13.5	15.1	5.6	3.2	2.4
70°	6133.5	2896.0	61.2	50.8	23.0	12.7	11.1	15.1	4.8	2.4	1.6
72.5°	3923.0	1680.7	45.3	40.5	17.5	9.5	7.1	13.5	4.8	1.6	0.8
75°	1669.6	521.1	31.0	28.6	10.3	7.1	4.8	8.7	3.2	0.8	0.0
77.5°	351.9	117.6	18.3	17.5	7.1	4.8	3.2	2.4	0.8	0.0	0.0
80°	90.5	34.2	9.5	8.7	4.0	2.4	1.6	0.0	0.0	0.0	0.0
82.5°	28.6	13.5	5.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	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)