

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: P322177

Luminaire Tested: **GAN-SA3D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322177
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-SA3D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 14436 lumens
Efficiency: N/A
Efficacy: 75.6 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): 191
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



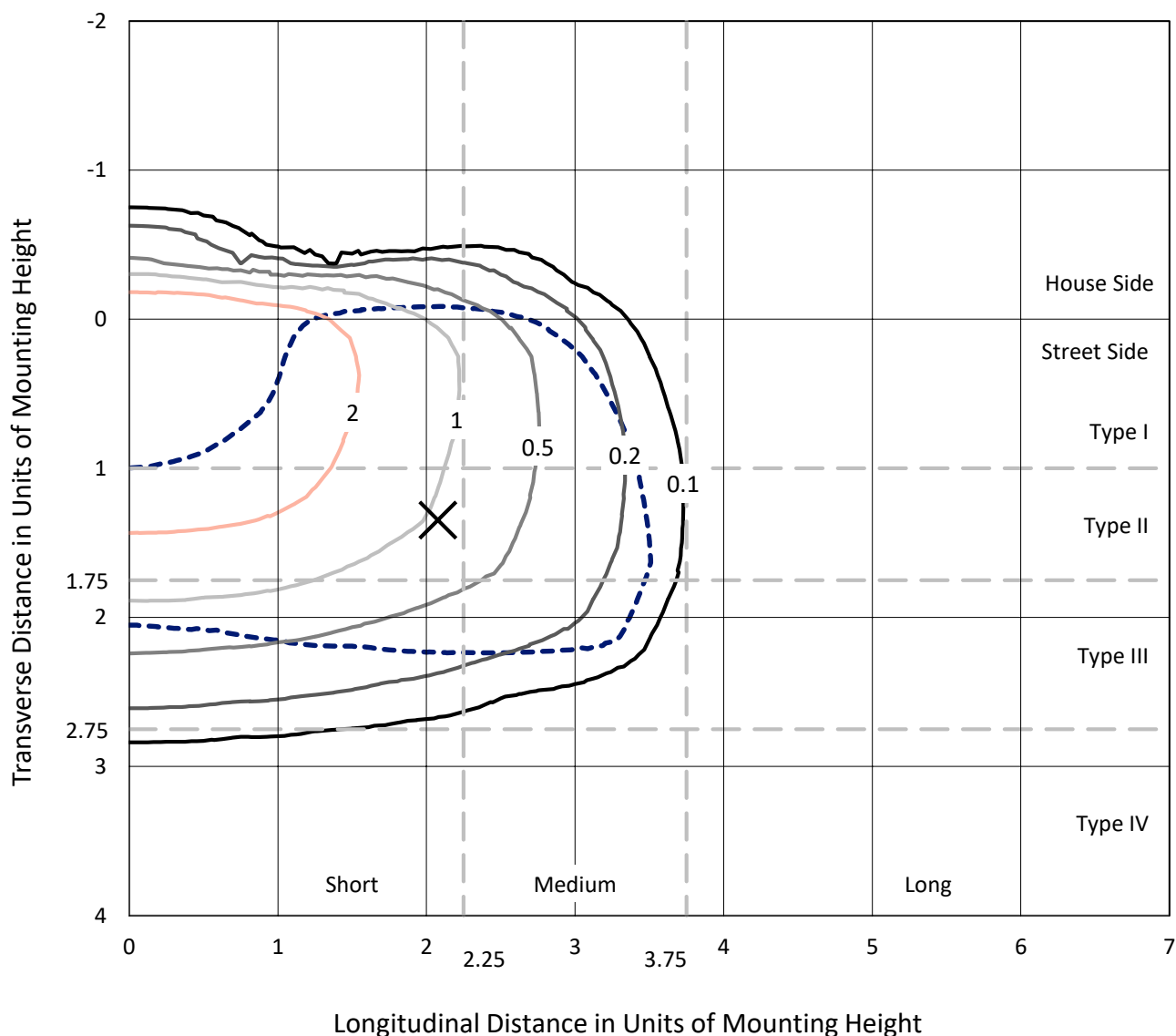
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

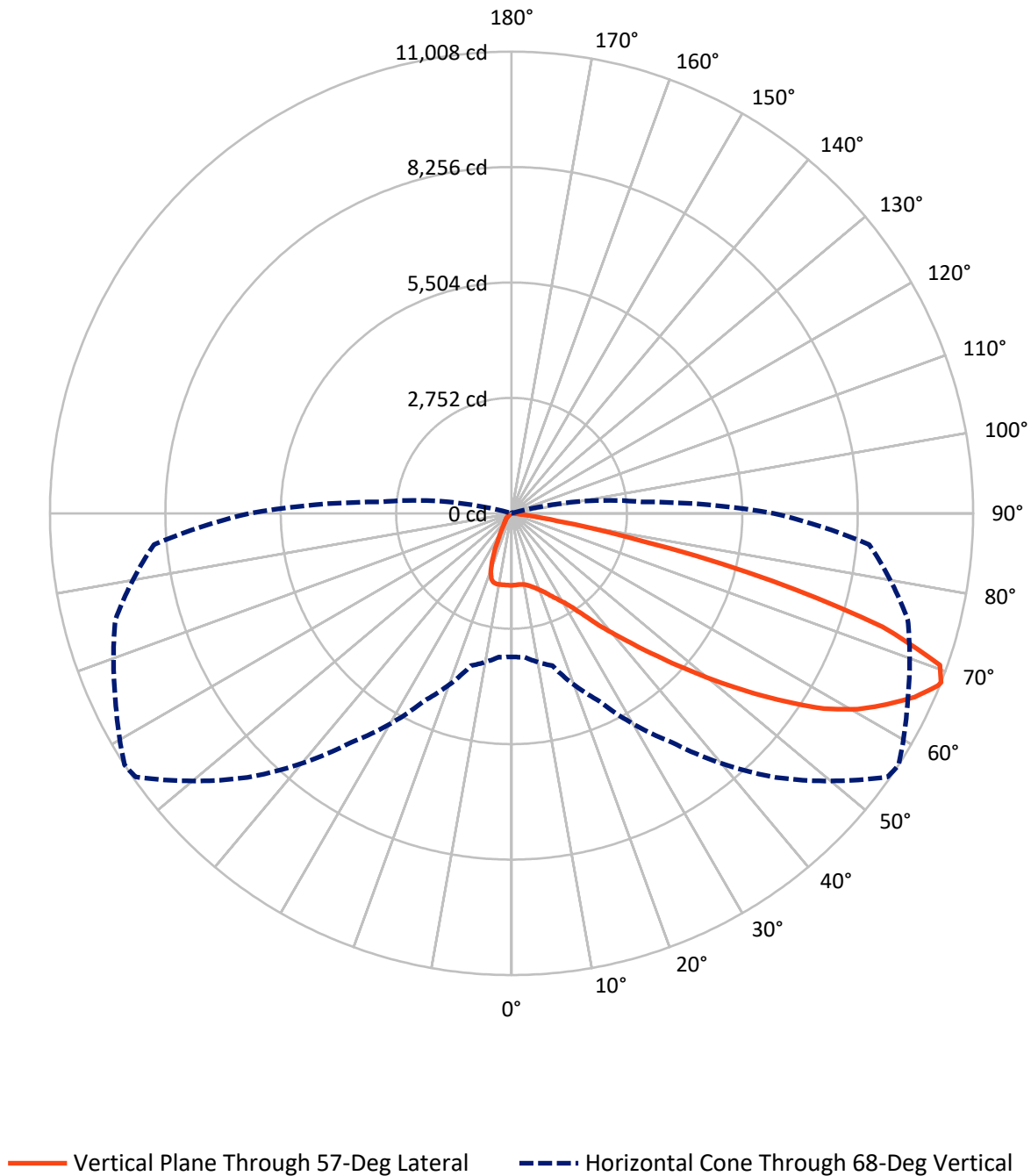


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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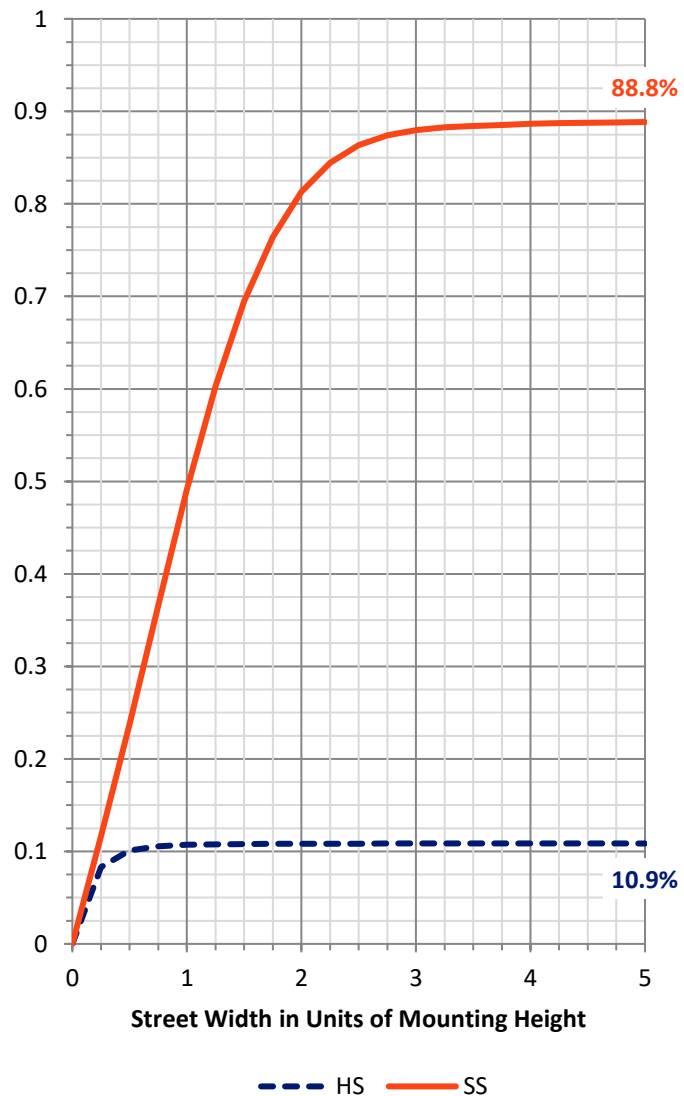
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.0	0.0	1583.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12853.0	0.0	12853.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	14436.0	0.0	14436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.1
10°-20°	444.8	3.1
20°-30°	767.4	5.3
30°-40°	1324.5	9.2
40°-50°	2265.6	15.7
50°-60°	3624.8	25.1
60°-70°	4188.0	29.0
70°-80°	1600.3	11.1
80°-90°	60.0	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°	14436.0	100.0
0°-180°	14436.0	100.0

Coefficient of Utilization



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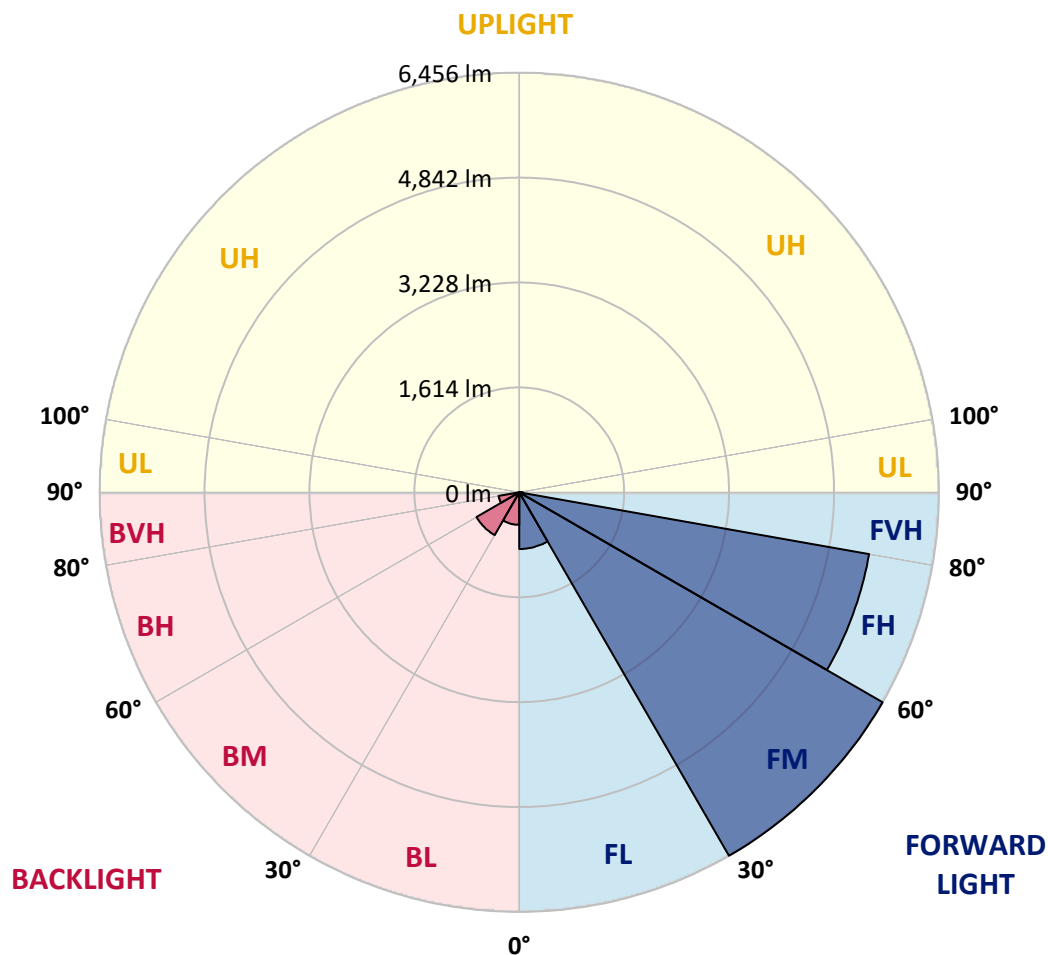
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.5	6.0			
FM	(30°-60°)	6455.7	44.7			
FH	(60°-80°)	5465.9	37.9			G3/7500
FVH	(80°-90°)	58.9	0.4			G1/100
BL	(0°-30°)	500.3	3.5	B2/1000		
BM	(30°-60°)	759.2	5.3	B1/1000		
BH	(60°-80°)	322.4	2.2	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1675.1	1682.6	1688.1	1691.5	1695.6	1704.5	1707.2	1711.3	1713.3	1713.3	1718.1
5°	1608.9	1617.1	1628.7	1638.2	1657.4	1681.9	1699.7	1706.5	1718.8	1729.7	1735.9
7.5°	1547.5	1557.0	1570.7	1593.2	1626.0	1665.5	1702.4	1712.0	1735.9	1759.1	1770.7
10°	1507.9	1515.4	1533.1	1565.2	1608.2	1663.5	1715.4	1727.0	1767.9	1806.8	1828.7
12.5°	1494.2	1501.0	1519.5	1555.6	1608.9	1673.7	1745.4	1762.5	1822.5	1879.2	1909.9
15°	1514.0	1515.4	1535.2	1569.3	1621.9	1699.0	1795.2	1815.7	1891.5	1965.2	2003.4
17.5°	1590.5	1584.3	1594.6	1609.6	1651.2	1732.4	1847.8	1878.5	1979.5	2066.2	2102.4
20°	1781.6	1781.6	1758.4	1717.4	1718.1	1784.3	1918.8	1953.6	2077.2	2177.5	2210.3
22.5°	2108.6	2102.4	2056.0	1955.7	1863.5	1873.7	2005.5	2050.5	2194.6	2301.7	2312.7
25°	2501.7	2494.2	2422.6	2281.3	2121.5	2018.5	2122.9	2174.8	2334.5	2429.4	2406.9
27.5°	2918.1	2912.0	2841.0	2665.6	2438.3	2249.2	2262.8	2312.0	2477.2	2570.7	2499.0
30°	3321.5	3323.6	3253.3	3073.1	2815.7	2543.4	2440.3	2469.0	2615.7	2710.6	2608.2
32.5°	3705.2	3707.9	3647.1	3445.8	3205.5	2885.4	2686.0	2678.5	2776.8	2870.3	2752.9
35°	4047.1	4054.0	4012.3	3856.0	3601.4	3266.2	3004.8	2987.1	3005.5	3111.3	2974.8
37.5°	4376.8	4380.9	4349.5	4217.8	4004.8	3684.7	3407.5	3382.3	3342.7	3423.9	3267.6
40°	4737.9	4727.7	4691.5	4572.1	4389.1	4146.8	3840.3	3796.6	3727.7	3800.0	3652.6
42.5°	5073.8	5062.2	5068.3	4933.2	4778.9	4621.9	4344.8	4269.7	4229.4	4312.7	4125.0
45°	5493.6	5487.4	5507.9	5390.5	5265.6	5151.6	4922.9	4841.0	4823.3	4920.9	4696.3
47.5°	5907.9	5922.9	5986.4	5936.6	5886.1	5785.7	5535.2	5498.4	5509.3	5627.4	5299.0
50°	6253.3	6271.1	6445.1	6502.5	6575.5	6516.8	6265.6	6243.1	6286.1	6392.6	5947.5
52.5°	6503.1	6539.3	6755.7	7019.9	7286.1	7325.7	7075.2	7054.7	7112.7	7129.1	6448.5
55°	6676.5	6708.6	6953.7	7436.9	7978.9	8149.6	7993.9	7914.8	7903.8	7742.1	6975.5
57.5°	6707.2	6703.8	7056.1	7706.6	8522.3	8962.6	8864.3	8786.4	8562.6	8308.6	7579.6
60°	6533.9	6553.7	6962.5	7800.1	8863.6	9577.6	9585.1	9484.1	9135.3	8859.5	8165.3
62.5°	6000.1	6080.6	6493.6	7555.0	8859.5	9825.4	10113.4	10036.3	9619.2	9310.7	8759.1
65°	5134.5	5163.2	5557.1	6715.4	8260.8	9721.6	10589.2	10560.5	10055.4	9748.9	9064.3
67.5°	3749.5	3687.4	4101.1	5288.1	6993.9	9116.8	10930.5	10966.7	10391.9	9839.0	8739.3
68°	3421.9	3440.3	3762.5	4935.2	6662.2	8903.2	10953.0	11008.3	10425.4	9780.3	8561.9
70°	2039.6	2075.1	2362.5	3398.0	5068.3	7694.3	10710.0	10836.3	10226.1	9174.8	7405.5
72.5°	520.8	563.1	834.8	1520.8	2894.9	5421.2	9041.1	9254.7	8878.6	7443.1	4999.4
75°	214.3	225.3	298.3	501.0	1078.5	2442.3	5959.1	6416.5	6155.0	4456.0	2259.4
77.5°	148.1	155.6	191.8	277.8	466.9	828.0	2921.5	3251.9	2929.7	1520.8	492.8
80°	106.5	112.6	137.2	185.0	268.3	295.6	952.2	1101.0	874.4	333.8	122.2
82.5°	63.5	68.3	102.4	131.7	163.1	141.3	236.9	268.9	253.2	165.9	54.6
85°	31.4	36.9	68.9	94.2	88.1	59.4	72.4	80.5	99.7	101.0	29.4
87.5°	2.0	4.1	40.3	56.7	24.6	13.7	21.2	25.9	35.5	49.8	12.3
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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1720.2	1720.8	1716.1	1714.0	1715.4	1707.2	1703.8	1705.1	1705.1	1707.2	1703.8
5°	1737.2	1737.2	1729.0	1718.1	1712.0	1696.3	1686.0	1683.3	1681.2	1679.9	1677.2
7.5°	1774.1	1770.0	1755.7	1731.8	1711.3	1677.2	1651.2	1637.6	1630.7	1628.0	1626.0
10°	1833.5	1826.0	1802.1	1757.7	1710.6	1649.8	1593.2	1552.9	1519.5	1505.8	1497.6
12.5°	1913.3	1902.4	1862.1	1788.4	1705.8	1593.9	1471.0	1352.9	1243.0	1198.0	1175.4
15°	2005.5	1989.8	1926.3	1814.4	1677.8	1467.6	1200.7	993.9	841.6	784.3	759.7
17.5°	2099.0	2078.5	1982.3	1830.7	1593.9	1206.2	842.3	636.2	534.5	507.2	497.6
20°	2193.2	2163.2	2030.7	1818.5	1404.1	869.6	555.6	464.9	435.5	427.3	424.6
22.5°	2282.6	2236.2	2074.4	1770.7	1112.0	583.6	439.6	410.9	401.4	396.6	395.2
25°	2360.4	2295.6	2112.7	1623.2	787.0	441.0	395.9	386.4	374.1	365.2	365.9
27.5°	2433.5	2355.0	2135.9	1380.2	524.9	376.8	366.6	353.6	331.1	318.1	318.1
30°	2521.5	2434.2	2152.9	1062.1	386.4	333.1	324.9	305.1	274.4	257.3	257.3
32.5°	2654.0	2554.3	2142.0	745.4	320.1	292.8	273.7	246.4	213.0	196.6	195.9
35°	2856.7	2740.0	2064.2	488.7	282.6	254.6	223.9	190.4	161.1	147.4	146.8
37.5°	3129.7	2988.4	1889.4	349.5	253.2	219.1	182.3	145.4	123.6	114.7	114.0
40°	3484.0	3277.2	1639.6	283.3	225.9	185.0	140.6	112.6	97.6	90.8	91.5
42.5°	3909.3	3586.4	1339.9	244.4	199.3	152.2	109.9	88.7	79.2	74.4	73.0
45°	4381.6	3891.5	1025.9	217.7	172.7	122.9	86.0	70.3	62.8	60.1	60.1
47.5°	4901.1	4188.4	750.9	194.5	144.0	94.9	68.9	57.3	51.2	49.1	48.5
50°	5372.8	4394.6	541.3	170.0	118.1	75.1	56.0	47.8	43.7	41.0	41.0
52.5°	5765.9	4459.4	398.6	143.3	95.6	60.1	46.4	41.0	36.9	34.8	34.8
55°	6112.0	4432.8	296.2	118.1	77.1	49.1	39.6	34.8	31.4	29.4	29.4
57.5°	6443.8	4346.8	221.2	96.2	62.1	39.6	33.4	29.4	25.9	24.6	24.6
60°	6714.8	4203.5	164.5	77.8	49.8	32.1	28.0	23.9	21.2	19.1	19.1
62.5°	6934.5	4045.1	120.8	64.2	39.6	25.3	21.8	19.8	15.7	13.7	13.7
65°	6935.9	3782.3	90.8	53.2	30.7	19.8	16.4	15.7	10.2	8.2	7.5
67.5°	6434.2	3260.8	69.6	45.7	23.9	15.0	12.3	13.0	5.5	3.4	2.7
68°	6251.9	3128.4	65.5	45.1	22.5	14.3	11.6	13.0	4.8	2.7	2.0
70°	5271.0	2488.8	52.6	43.7	19.8	10.9	9.6	13.0	4.1	2.0	1.4
72.5°	3371.4	1444.4	38.9	34.8	15.0	8.2	6.1	11.6	4.1	1.4	0.7
75°	1434.8	447.8	26.6	24.6	8.9	6.1	4.1	7.5	2.7	0.7	0.0
77.5°	302.4	101.0	15.7	15.0	6.1	4.1	2.7	2.0	0.7	0.0	0.0
80°	77.8	29.4	8.2	7.5	3.4	2.0	1.4	0.0	0.0	0.0	0.0
82.5°	24.6	11.6	4.8	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	6.8	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	2.0	0.7	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)