

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: P322350

Luminaire Tested: **GAN-SA6A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322350
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 14931 lumens
Efficiency: N/A
Efficacy: 77.4 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



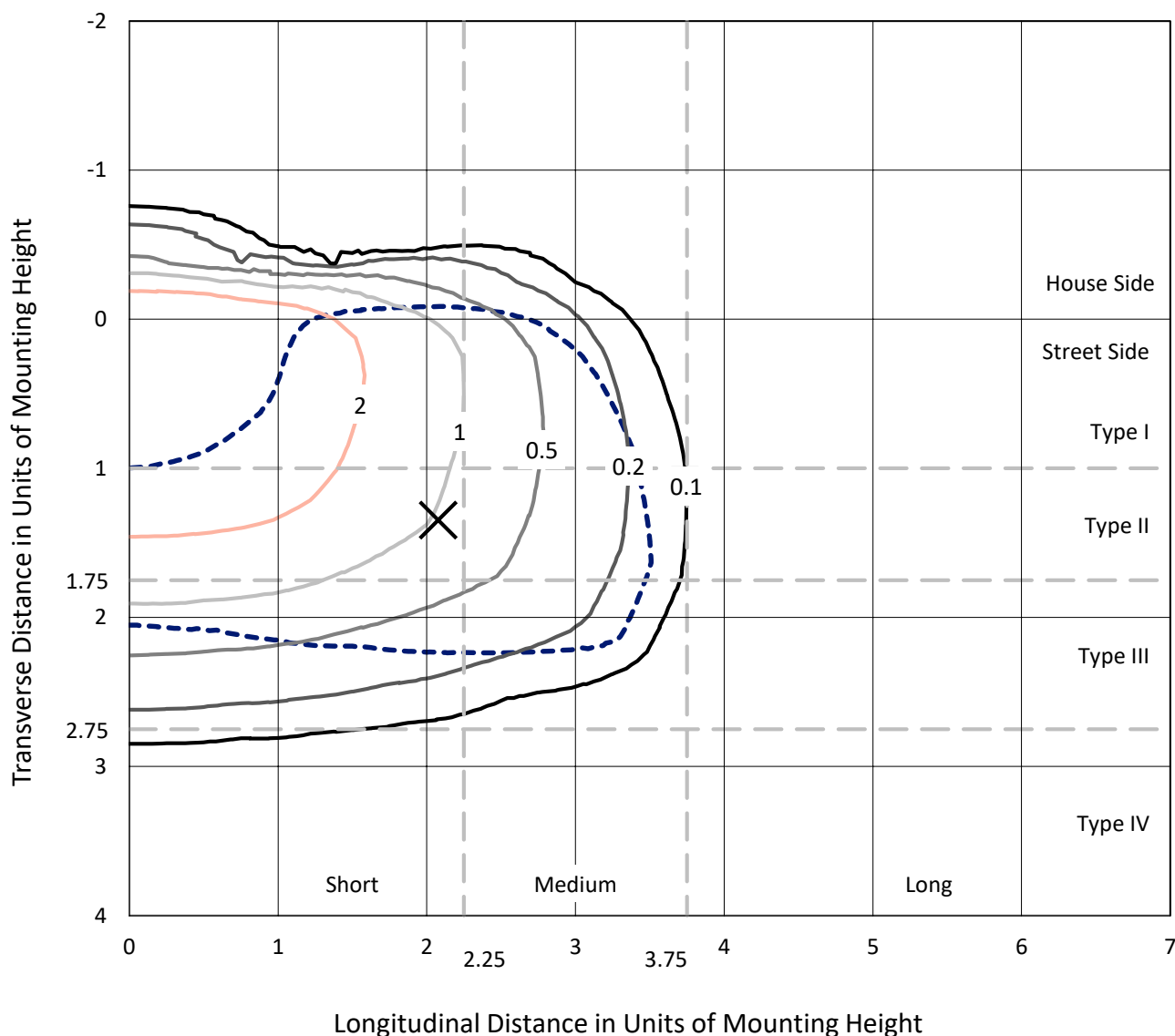
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

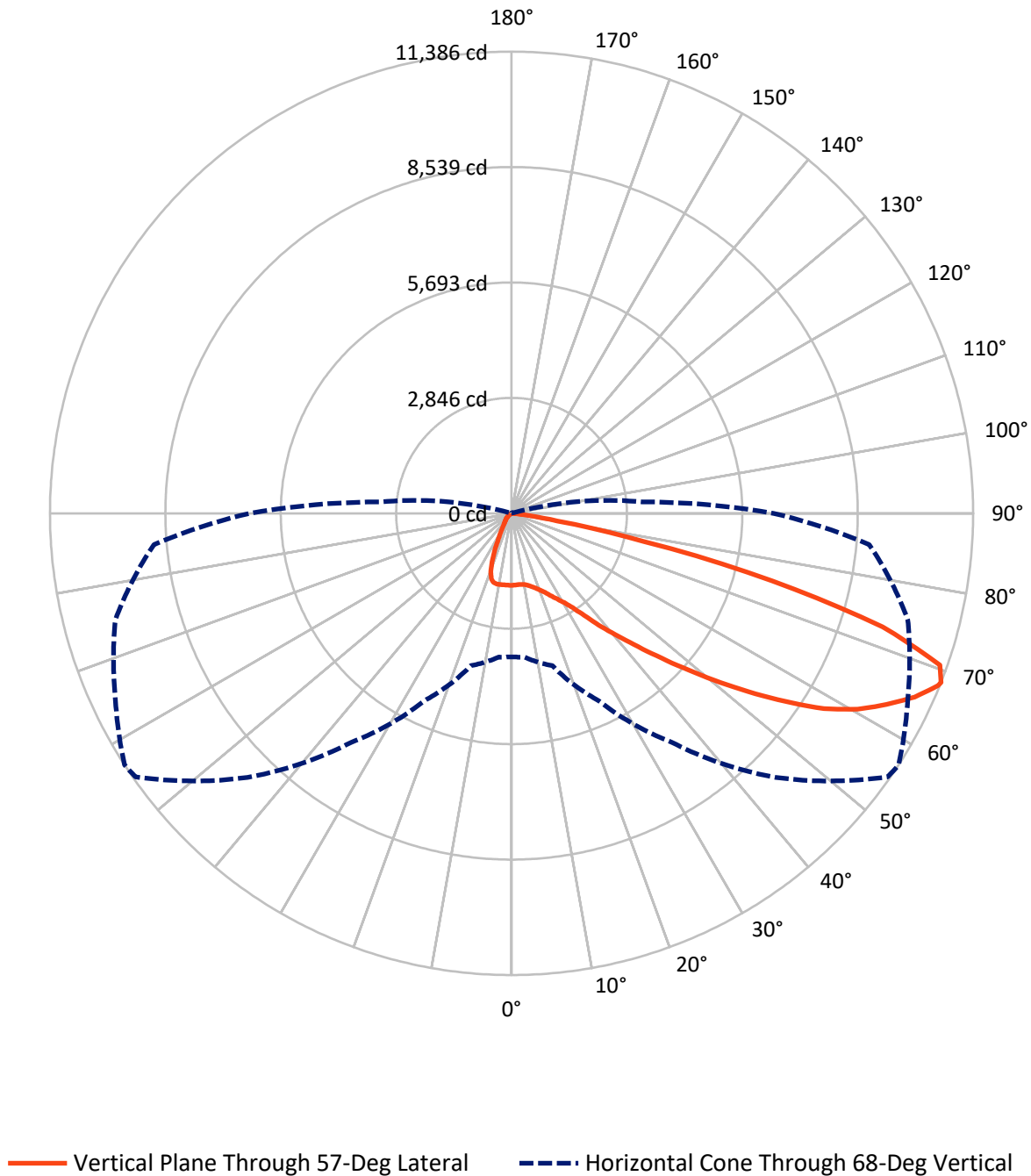


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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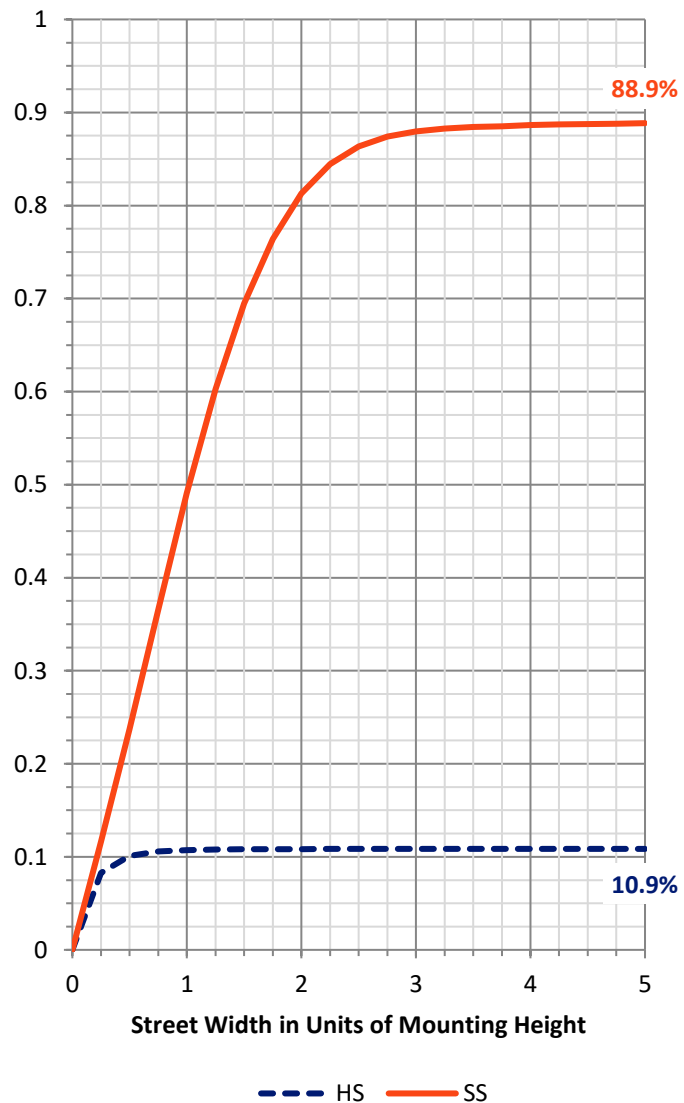
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.3	0.0	1637.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13293.7	0.0	13293.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	14931.0	0.0	14931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.1
10°-20°	460.1	3.1
20°-30°	793.7	5.3
30°-40°	1369.9	9.2
40°-50°	2343.3	15.7
50°-60°	3749.1	25.1
60°-70°	4331.6	29.0
70°-80°	1655.2	11.1
80°-90°	62.0	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°	14931.0	100.0
0°-180°	14931.0	100.0

Coefficient of Utilization



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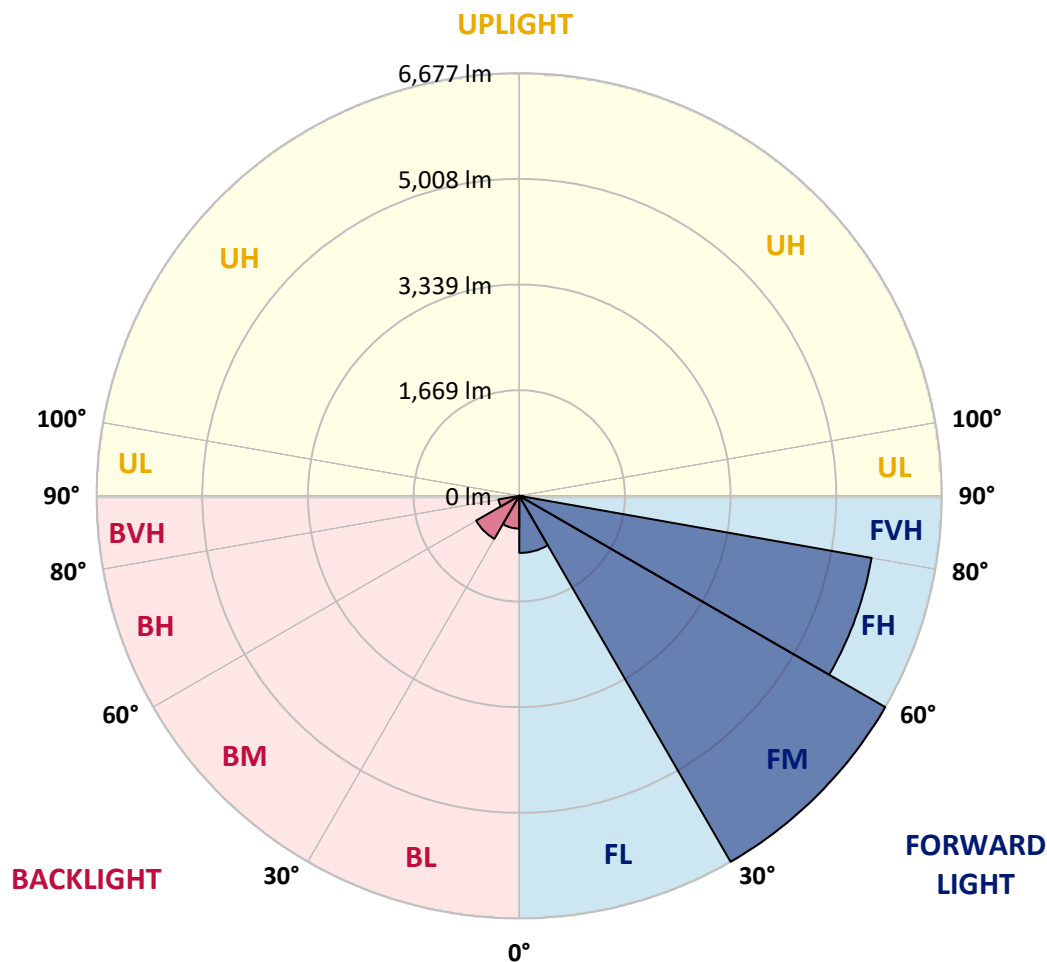
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.4	6.0			
FM	(30°-60°)	6677.0	44.7			
FH	(60°-80°)	5653.4	37.9			G3/7500
FVH	(80°-90°)	60.9	0.4			G1/100
BL	(0°-30°)	517.4	3.5	B2/1000		
BM	(30°-60°)	785.3	5.3	B1/1000		
BH	(60°-80°)	333.4	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°	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2
2.5°	1732.5	1740.3	1746.0	1749.5	1753.7	1762.9	1765.7	1770.0	1772.1	1772.1	1777.0
5°	1664.1	1672.5	1684.5	1694.4	1714.2	1739.6	1758.0	1765.0	1777.7	1789.0	1795.4
7.5°	1600.5	1610.4	1624.5	1647.8	1681.7	1722.7	1760.8	1770.7	1795.4	1819.4	1831.4
10°	1559.6	1567.3	1585.7	1618.9	1663.4	1720.5	1774.2	1786.2	1828.6	1868.8	1891.4
12.5°	1545.5	1552.5	1571.6	1609.0	1664.1	1731.1	1805.3	1822.9	1885.0	1943.6	1975.4
15°	1565.9	1567.3	1587.8	1623.1	1677.5	1757.3	1856.8	1878.0	1956.3	2032.6	2072.1
17.5°	1645.0	1638.6	1649.2	1664.8	1707.8	1791.8	1911.2	1942.9	2047.4	2137.1	2174.5
20°	1842.7	1842.7	1818.7	1776.3	1777.0	1845.5	1984.6	2020.6	2148.4	2252.2	2286.1
22.5°	2180.9	2174.5	2126.5	2022.7	1927.4	1938.0	2074.2	2120.8	2269.8	2380.7	2392.0
25°	2587.5	2579.8	2505.6	2359.5	2194.3	2087.7	2195.7	2249.3	2414.5	2512.7	2489.4
27.5°	3018.2	3011.8	2938.4	2757.0	2521.9	2326.3	2340.4	2391.2	2562.1	2658.8	2584.7
30°	3435.4	3437.5	3364.8	3178.4	2912.3	2630.6	2524.0	2553.6	2705.4	2803.6	2697.7
32.5°	3832.2	3835.0	3772.2	3563.9	3315.4	2984.3	2778.1	2770.4	2872.0	2968.8	2847.3
35°	4185.9	4193.0	4149.9	3988.2	3724.9	3378.2	3107.8	3089.5	3108.6	3218.0	3076.8
37.5°	4526.9	4531.2	4498.7	4362.4	4142.1	3811.0	3524.4	3498.3	3457.3	3541.3	3379.7
40°	4900.4	4889.8	4852.4	4728.8	4539.6	4289.0	3972.0	3926.8	3855.5	3930.3	3777.8
42.5°	5247.8	5235.8	5242.1	5102.3	4942.8	4780.4	4493.7	4416.1	4374.4	4460.6	4266.4
45°	5681.9	5675.6	5696.8	5575.3	5446.1	5328.2	5091.7	5007.0	4988.6	5089.6	4857.3
47.5°	6110.5	6126.0	6191.7	6140.1	6087.9	5984.1	5725.0	5686.9	5698.2	5820.3	5480.7
50°	6467.7	6486.1	6666.1	6725.4	6801.0	6740.3	6480.4	6457.1	6501.6	6611.8	6151.4
52.5°	6726.1	6763.6	6987.4	7260.6	7535.9	7576.9	7317.8	7296.6	7356.6	7373.5	6669.7
55°	6905.5	6938.6	7192.1	7691.9	8252.5	8429.0	8268.1	8186.2	8174.9	8007.5	7214.7
57.5°	6937.2	6933.7	7298.0	7970.8	8814.5	9269.9	9168.2	9087.7	8856.2	8593.5	7839.5
60°	6757.9	6778.4	7201.3	8067.5	9167.5	9906.0	9913.8	9809.3	9448.5	9163.3	8445.3
62.5°	6205.8	6289.1	6716.2	7814.1	9163.3	10162.3	10460.2	10380.4	9949.1	9629.9	9059.5
65°	5310.6	5340.2	5747.6	6945.7	8544.1	10055.0	10952.3	10922.6	10400.2	10083.2	9375.1
67.5°	3878.1	3813.9	4241.7	5469.4	7233.8	9429.4	11305.3	11342.7	10748.3	10176.4	9039.0
68°	3539.2	3558.3	3891.5	5104.4	6890.6	9208.5	11328.6	11385.8	10782.9	10115.7	8855.5
70°	2109.5	2146.3	2443.5	3514.5	5242.1	7958.1	11077.3	11207.9	10576.7	9489.4	7659.5
72.5°	538.7	582.5	863.4	1573.0	2994.2	5607.1	9351.1	9572.0	9183.0	7698.3	5170.8
75°	221.7	233.0	308.5	518.2	1115.5	2526.1	6163.4	6636.5	6366.1	4608.8	2336.9
77.5°	153.2	161.0	198.4	287.3	482.9	856.4	3021.7	3363.4	3030.2	1573.0	509.7
80°	110.1	116.5	141.9	191.3	277.5	305.7	984.9	1138.8	904.4	345.2	126.4
82.5°	65.7	70.6	105.9	136.3	168.7	146.1	245.0	278.2	261.9	171.6	56.5
85°	32.5	38.1	71.3	97.4	91.1	61.4	74.8	83.3	103.1	104.5	30.4
87.5°	2.1	4.2	41.7	58.6	25.4	14.1	21.9	26.8	36.7	51.5	12.7
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°	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2	1774.2
2.5°	1779.1	1779.8	1774.9	1772.8	1774.2	1765.7	1762.2	1763.6	1763.6	1765.7	1762.2
5°	1796.8	1796.8	1788.3	1777.0	1770.7	1754.4	1743.8	1741.0	1738.9	1737.5	1734.7
7.5°	1834.9	1830.7	1815.9	1791.1	1770.0	1734.7	1707.8	1693.7	1686.7	1683.8	1681.7
10°	1896.3	1888.6	1863.9	1818.0	1769.3	1706.4	1647.8	1606.2	1571.6	1557.5	1549.0
12.5°	1978.9	1967.6	1926.0	1849.7	1764.3	1648.5	1521.4	1399.3	1285.6	1239.0	1215.7
15°	2074.2	2058.0	1992.4	1876.6	1735.4	1517.9	1241.9	1027.9	870.5	811.2	785.8
17.5°	2171.0	2149.8	2050.2	1893.5	1648.5	1247.5	871.2	658.0	552.8	524.6	514.7
20°	2268.4	2237.3	2100.4	1880.8	1452.3	899.5	574.7	480.8	450.4	442.0	439.1
22.5°	2360.9	2312.9	2145.6	1831.4	1150.1	603.6	454.7	425.0	415.1	410.2	408.8
25°	2441.4	2374.3	2185.1	1678.9	814.0	456.1	409.5	399.6	386.9	377.7	378.4
27.5°	2516.9	2435.7	2209.1	1427.5	542.9	389.7	379.1	365.7	342.4	329.0	329.0
30°	2608.0	2517.6	2226.7	1098.5	399.6	344.5	336.1	315.6	283.8	266.2	266.2
32.5°	2745.0	2641.9	2215.5	771.0	331.1	302.9	283.1	254.9	220.3	203.3	202.6
35°	2954.6	2833.9	2135.0	505.5	292.3	263.3	231.6	197.0	166.6	152.5	151.8
37.5°	3237.0	3090.9	1954.2	361.5	261.9	226.6	188.5	150.4	127.8	118.6	117.9
40°	3603.5	3389.5	1695.8	293.0	233.7	191.3	145.4	116.5	101.0	93.9	94.6
42.5°	4043.3	3709.4	1385.9	252.8	206.2	157.4	113.7	91.8	81.9	77.0	75.5
45°	4531.9	4024.9	1061.1	225.2	178.6	127.1	89.0	72.7	65.0	62.1	62.1
47.5°	5069.1	4332.1	776.6	201.2	149.0	98.1	71.3	59.3	53.0	50.8	50.1
50°	5557.0	4545.3	559.9	175.8	122.1	77.7	57.9	49.4	45.2	42.4	42.4
52.5°	5963.6	4612.3	412.3	148.3	98.8	62.1	48.0	42.4	38.1	36.0	36.0
55°	6321.6	4584.8	306.4	122.1	79.8	50.8	40.9	36.0	32.5	30.4	30.4
57.5°	6664.7	4495.9	228.7	99.5	64.2	40.9	34.6	30.4	26.8	25.4	25.4
60°	6945.0	4347.6	170.1	80.5	51.5	33.2	28.9	24.7	21.9	19.8	19.8
62.5°	7172.3	4183.8	125.0	66.4	40.9	26.1	22.6	20.5	16.2	14.1	14.1
65°	7173.7	3912.0	93.9	55.1	31.8	20.5	16.9	16.2	10.6	8.5	7.8
67.5°	6654.8	3372.6	72.0	47.3	24.7	15.5	12.7	13.4	5.6	3.5	2.8
68°	6466.3	3235.6	67.8	46.6	23.3	14.8	12.0	13.4	4.9	2.8	2.1
70°	5451.8	2574.1	54.4	45.2	20.5	11.3	9.9	13.4	4.2	2.1	1.4
72.5°	3487.0	1493.9	40.2	36.0	15.5	8.5	6.4	12.0	4.2	1.4	0.7
75°	1484.0	463.1	27.5	25.4	9.2	6.4	4.2	7.8	2.8	0.7	0.0
77.5°	312.8	104.5	16.2	15.5	6.4	4.2	2.8	2.1	0.7	0.0	0.0
80°	80.5	30.4	8.5	7.8	3.5	2.1	1.4	0.0	0.0	0.0	0.0
82.5°	25.4	12.0	4.9	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	7.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.1	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)