

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: P320066

Luminaire Tested: **GAN-SA2A-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9059 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 66
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



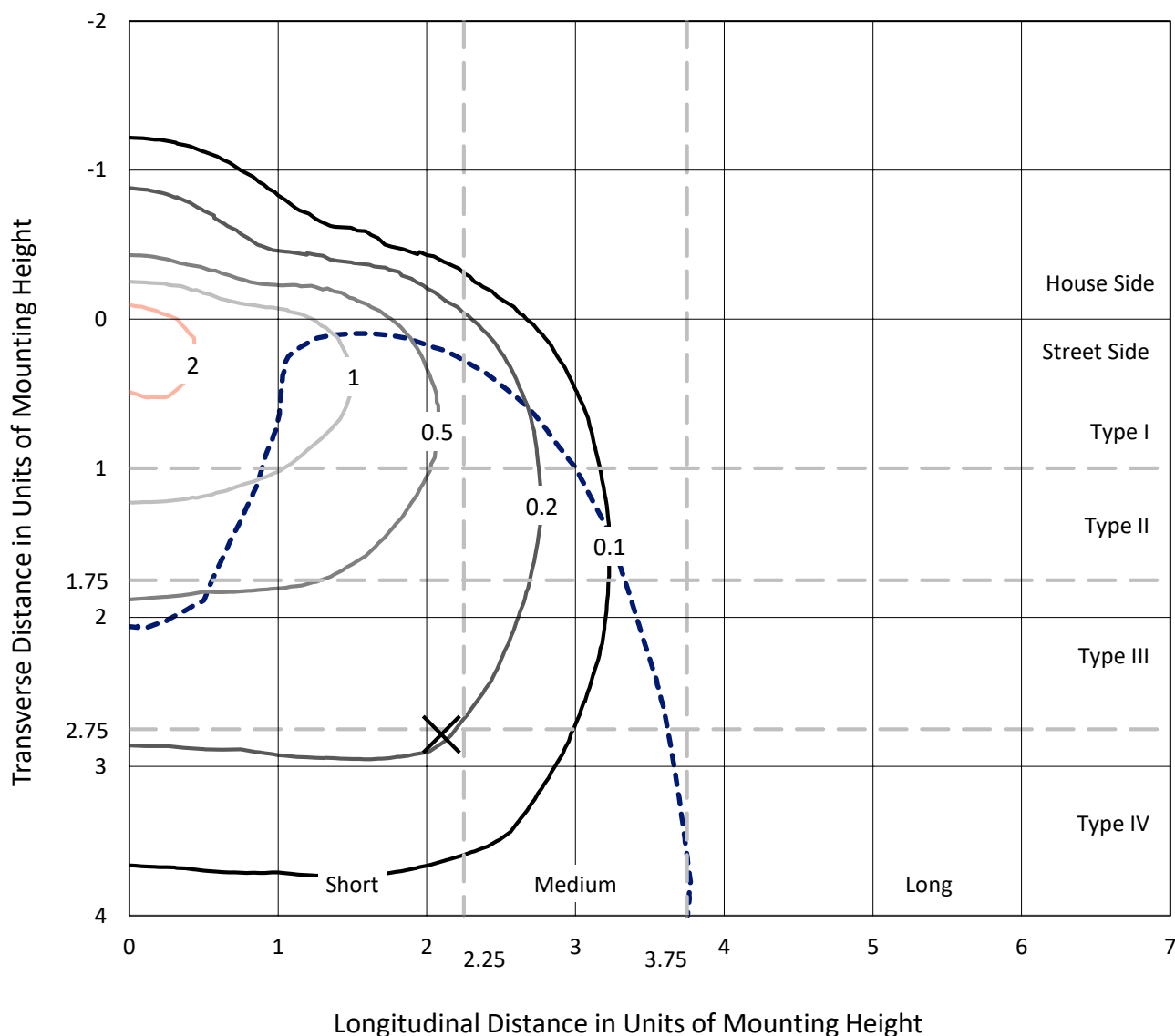
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

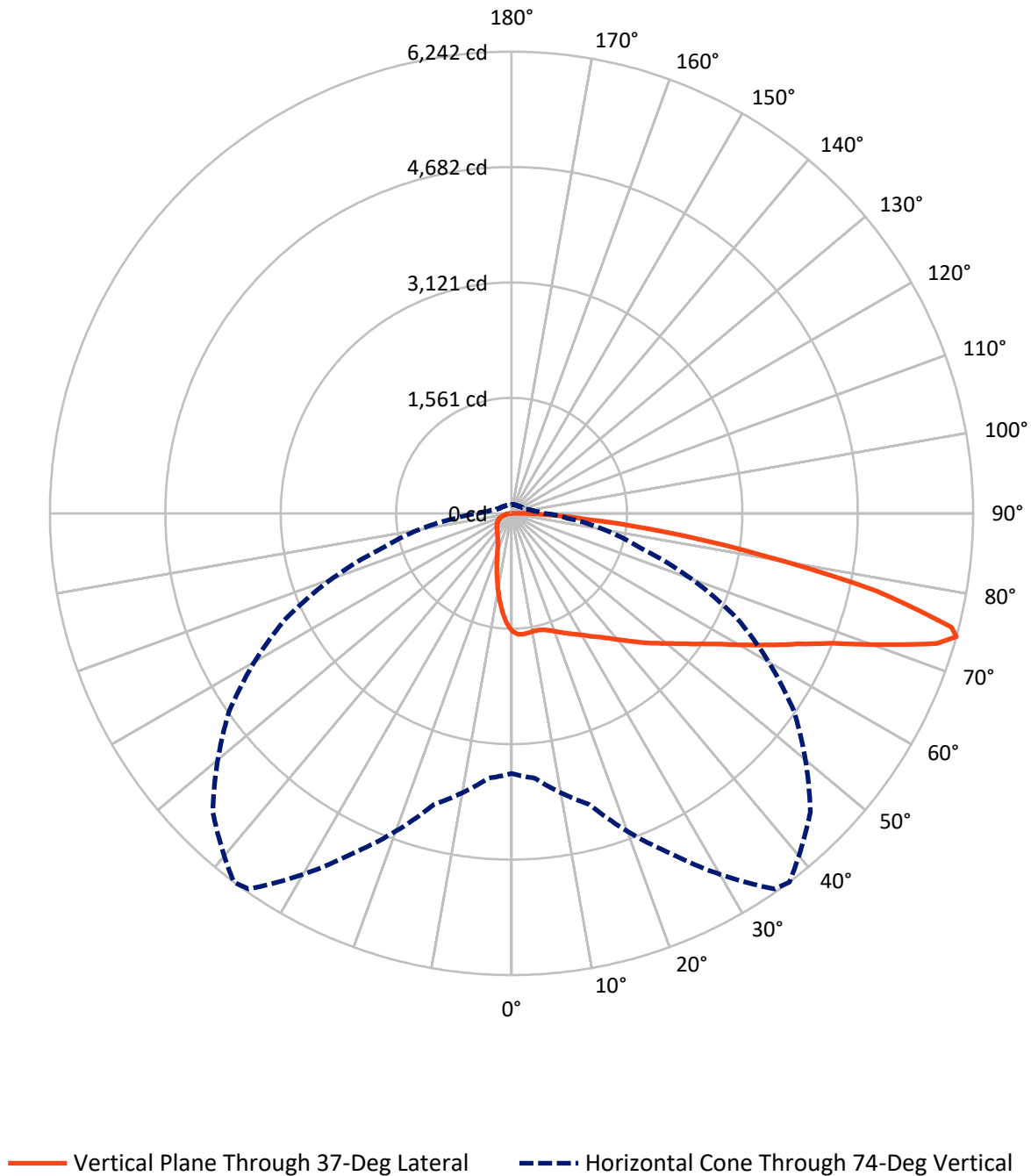


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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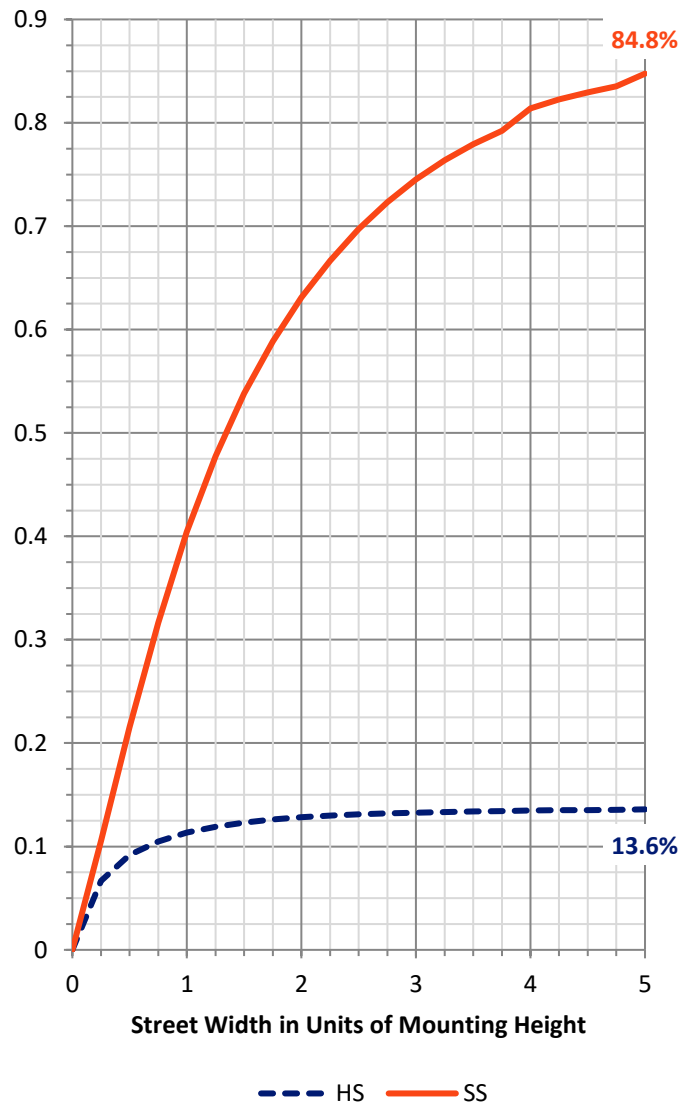
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.5	0.0	1246.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	7812.5	0.0	7812.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	9059.0	0.0	9059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	1.6
10°-20°	360.3	4.0
20°-30°	555.1	6.1
30°-40°	807.3	8.9
40°-50°	1188.1	13.1
50°-60°	1668.5	18.4
60°-70°	2111.8	23.3
70°-80°	1859.6	20.5
80°-90°	367.7	4.1
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°	9059.0	100.0
0°-180°	9059.0	100.0

Coefficient of Utilization



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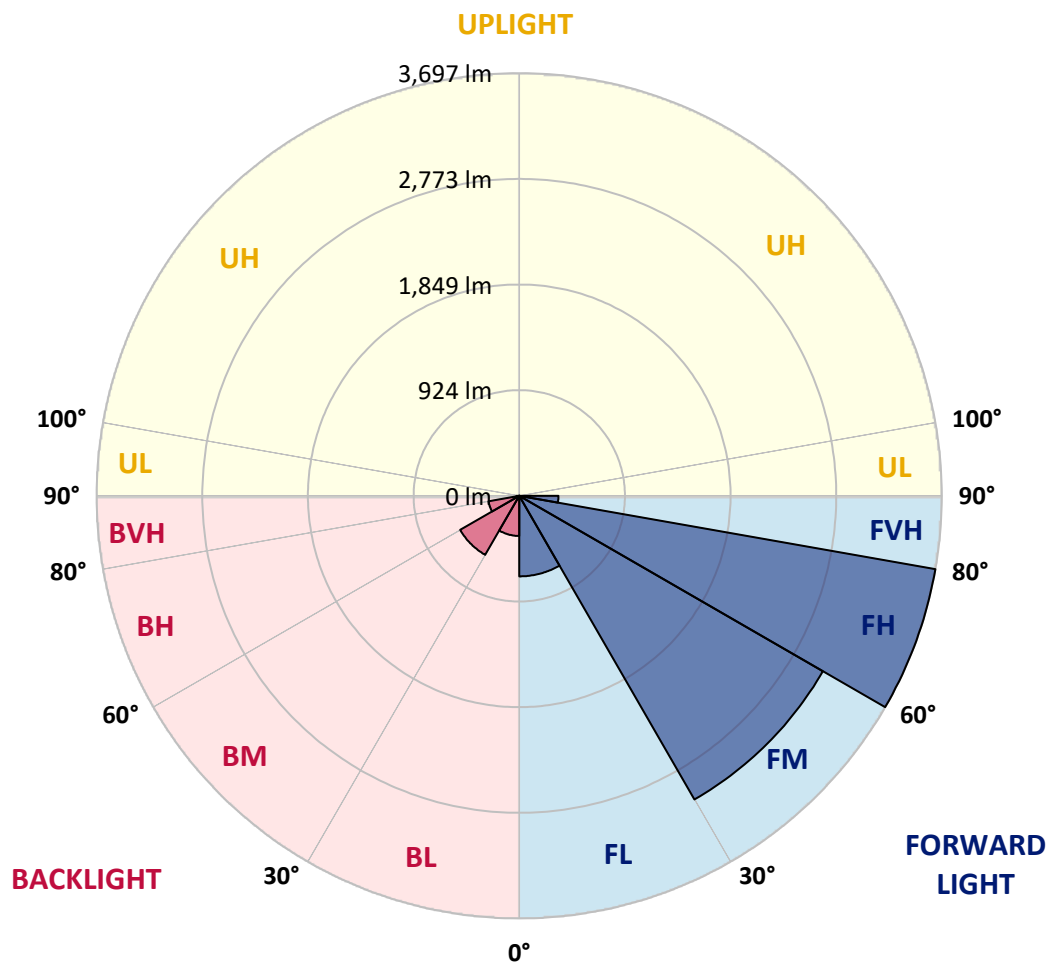
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	704.9	7.8			
FM	(30°-60°)	3067.4	33.9			
FH	(60°-80°)	3697.4	40.8			G2/5000
FVH	(80°-90°)	342.8	3.8			G3/500
BL	(0°-30°)	351.1	3.9	B1/500		
BM	(30°-60°)	596.5	6.6	B1/1000		
BH	(60°-80°)	274.0	3.0	B1/500		G1/500
BVH	(80°-90°)	24.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2
2.5°	1650.7	1651.0	1650.7	1648.2	1642.1	1637.0	1632.9	1626.8	1613.4	1603.2	1587.9
5°	1666.4	1664.4	1663.2	1658.4	1648.8	1643.1	1635.1	1623.6	1601.6	1581.2	1556.3
7.5°	1659.0	1656.8	1653.9	1648.2	1637.3	1632.5	1621.4	1606.4	1579.9	1553.1	1517.3
10°	1636.4	1635.7	1634.5	1633.2	1623.9	1620.1	1609.9	1593.9	1567.8	1535.2	1493.4
12.5°	1611.2	1612.8	1617.9	1624.6	1620.4	1618.5	1612.1	1601.3	1574.5	1539.4	1488.9
15°	1595.2	1599.7	1613.4	1630.9	1634.5	1633.8	1632.2	1625.2	1596.8	1557.9	1499.2
17.5°	1589.8	1597.1	1623.3	1652.3	1662.5	1664.8	1665.4	1653.3	1621.7	1580.5	1509.7
20°	1599.7	1608.9	1647.2	1687.1	1703.4	1704.7	1701.8	1680.7	1645.3	1600.0	1515.4
22.5°	1629.7	1638.0	1685.8	1730.8	1749.3	1751.2	1742.6	1710.7	1670.2	1623.0	1523.4
25°	1687.4	1697.6	1745.5	1790.5	1800.1	1800.4	1787.9	1748.4	1702.7	1655.2	1540.6
27.5°	1762.7	1772.9	1816.0	1860.1	1855.0	1852.1	1835.2	1795.6	1745.2	1699.6	1571.3
30°	1846.7	1857.8	1898.7	1929.9	1917.8	1912.1	1898.4	1847.3	1804.2	1760.2	1618.2
32.5°	1933.5	1943.7	1979.4	2000.8	1985.5	1982.9	1962.2	1915.6	1881.1	1852.7	1694.1
35°	2022.5	2029.8	2064.9	2077.1	2056.6	2056.0	2050.2	2007.5	1985.8	1999.2	1804.5
37.5°	2113.4	2115.3	2145.3	2146.0	2139.9	2142.5	2148.5	2121.7	2127.8	2169.6	1948.1
40°	2194.5	2199.6	2221.3	2228.0	2238.5	2247.5	2277.8	2260.2	2307.1	2381.2	2126.8
42.5°	2254.5	2264.4	2299.1	2316.4	2350.5	2364.6	2407.3	2423.6	2518.1	2629.1	2339.4
45°	2305.2	2320.5	2376.4	2411.8	2469.5	2494.1	2555.4	2610.0	2756.4	2898.1	2563.0
47.5°	2360.1	2379.6	2449.4	2517.1	2595.6	2623.4	2734.7	2816.4	3010.8	3168.7	2774.0
50°	2440.8	2455.8	2524.1	2630.4	2728.3	2764.1	2918.2	3035.3	3269.2	3426.5	2956.8
52.5°	2553.5	2547.7	2605.5	2754.5	2886.0	2930.0	3114.1	3268.3	3531.2	3659.8	3111.3
55°	2666.8	2657.2	2697.7	2884.4	3069.8	3116.1	3329.9	3502.2	3780.4	3869.8	3229.7
57.5°	2792.8	2774.6	2808.8	3030.9	3279.1	3334.3	3571.4	3750.8	4025.5	4039.5	3305.0
60°	2922.7	2898.1	2936.4	3212.4	3544.9	3610.0	3854.1	3993.3	4256.5	4175.5	3329.2
62.5°	3036.3	3019.0	3078.1	3415.1	3844.6	3916.1	4131.8	4251.1	4484.4	4232.0	3241.8
65°	3135.5	3138.4	3240.5	3642.9	4178.7	4254.9	4450.2	4568.9	4663.7	4198.5	3037.2
67.5°	3253.9	3270.2	3444.4	3942.9	4599.3	4682.9	4913.6	4915.5	4763.9	4001.9	2634.5
70°	3426.5	3460.1	3724.9	4359.0	5197.3	5312.1	5490.2	5119.1	4623.2	3469.0	2072.9
72.5°	3579.7	3642.3	4023.3	4835.1	5926.1	6013.2	5827.5	5001.6	4035.1	2599.7	1291.4
74°	3517.5	3595.0	4077.5	5069.6	6200.5	6242.3	5713.6	4658.9	3364.3	1800.4	750.5
75°	3383.5	3467.7	3998.4	5067.4	6165.7	6142.4	5438.5	4267.4	2770.8	1227.9	499.4
77.5°	2730.6	2819.6	3369.1	4343.0	5055.6	5033.6	4177.7	2862.7	1213.6	402.7	253.7
80°	1587.5	1655.5	2091.4	2758.0	3409.0	3448.9	2747.5	1416.5	477.4	226.2	172.0
82.5°	705.2	752.1	1010.3	1407.9	2057.3	2108.6	1438.8	742.2	294.9	137.5	103.4
85°	462.7	497.5	613.3	670.4	979.7	1014.8	704.3	577.9	194.7	75.6	75.9
87.5°	332.8	366.3	455.7	397.9	449.6	425.7	383.2	534.8	78.2	43.1	25.5
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°	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2	1596.2
2.5°	1581.2	1576.1	1564.6	1542.9	1530.7	1520.5	1503.6	1493.7	1489.3	1488.9	1490.9
5°	1541.9	1530.1	1500.4	1464.1	1435.0	1408.5	1375.7	1355.9	1341.8	1333.5	1335.8
7.5°	1496.3	1477.8	1431.2	1373.1	1326.5	1275.1	1224.4	1194.1	1170.5	1152.9	1156.1
10°	1465.0	1439.5	1371.5	1287.9	1210.4	1135.7	1065.8	1024.0	990.8	965.3	967.2
12.5°	1454.5	1420.0	1325.9	1214.2	1105.4	1003.3	912.0	847.9	813.7	784.7	786.9
15°	1456.1	1409.8	1287.6	1147.8	1010.9	882.3	771.6	696.6	650.3	630.2	630.6
17.5°	1457.4	1398.0	1247.4	1076.7	917.4	769.4	649.1	573.1	529.4	510.9	511.2
20°	1453.2	1378.9	1197.6	995.0	819.8	665.7	549.2	484.7	451.5	437.2	437.2
22.5°	1447.8	1356.2	1141.4	913.0	723.4	575.7	477.7	428.6	409.4	399.8	399.5
25°	1450.3	1339.3	1084.0	828.7	634.7	503.9	430.2	397.6	384.8	378.8	378.5
27.5°	1464.1	1331.3	1031.0	744.8	557.2	449.9	398.2	375.3	367.0	363.1	363.1
30°	1488.9	1331.3	975.8	673.3	492.7	410.0	373.7	358.0	352.3	349.7	349.7
32.5°	1532.3	1338.6	922.5	602.5	441.3	378.8	353.2	342.7	338.3	337.0	337.0
35°	1607.0	1363.5	870.5	535.5	399.8	353.2	333.8	327.7	324.5	324.2	325.2
37.5°	1712.0	1414.3	821.7	486.0	370.5	332.5	317.5	312.7	310.8	312.4	313.7
40°	1844.1	1483.2	777.3	441.3	348.1	315.9	302.5	299.3	298.4	300.6	302.5
42.5°	2003.7	1576.4	741.0	409.1	330.9	301.9	289.7	285.9	285.0	287.5	290.1
45°	2176.3	1676.6	715.4	385.2	317.5	291.3	278.6	274.4	272.5	273.8	276.7
47.5°	2333.3	1771.3	705.2	368.2	304.7	282.4	268.7	263.6	260.4	259.8	262.0
50°	2465.7	1841.9	710.0	358.0	294.5	272.5	259.1	253.4	248.6	245.7	247.3
52.5°	2562.1	1886.2	714.5	353.6	286.6	261.7	248.6	243.2	236.8	232.0	232.0
55°	2632.0	1896.4	704.6	350.1	280.5	249.9	236.8	231.7	225.3	219.9	219.2
57.5°	2659.4	1867.7	667.9	345.0	276.3	238.7	224.3	220.5	215.1	208.7	208.4
60°	2622.4	1779.0	597.0	334.1	270.9	229.4	211.9	209.3	206.8	200.7	200.4
62.5°	2473.7	1584.4	505.5	312.1	260.1	219.5	200.4	201.7	202.0	197.8	197.2
65°	2204.1	1316.9	416.1	283.4	243.8	207.7	188.6	194.7	198.2	197.5	196.6
67.5°	1812.2	1025.0	352.6	253.0	222.4	191.5	175.8	182.8	185.7	188.0	187.3
70°	1345.0	722.8	291.7	221.1	196.6	172.3	159.2	162.7	160.8	163.4	164.3
72.5°	749.9	433.7	237.7	189.2	169.8	150.0	140.7	140.1	135.9	135.9	135.9
74°	449.9	318.1	209.0	169.4	153.5	135.3	127.3	124.5	120.6	120.9	120.6
75°	361.9	273.5	191.8	156.4	142.0	126.7	118.7	114.9	112.0	112.0	111.7
77.5°	228.5	207.7	154.4	124.5	113.6	104.3	98.9	93.8	93.8	93.5	93.2
80°	172.6	165.3	120.3	94.1	87.1	80.1	76.6	74.4	74.4	75.3	75.0
82.5°	118.4	124.5	84.6	65.7	62.2	57.1	56.5	56.8	55.8	54.6	54.2
85°	86.5	93.5	57.1	41.5	38.0	34.8	37.3	38.6	37.0	34.1	32.9
87.5°	33.2	61.3	30.6	17.2	16.0	13.7	16.0	16.6	17.9	14.0	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

(END OF REPORT)