

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: P319266

Luminaire Tested: **GAN-SA2A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7812 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

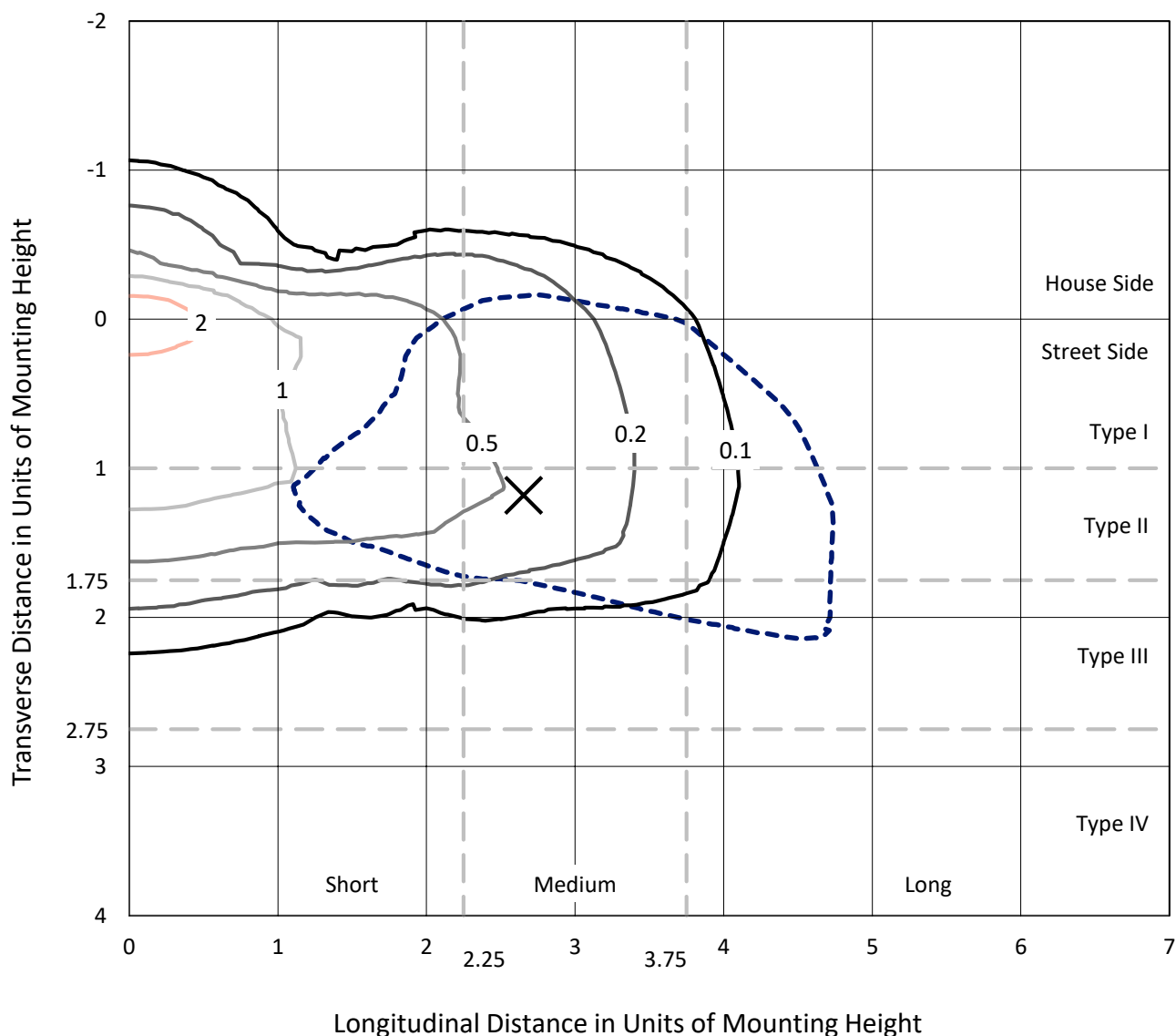
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

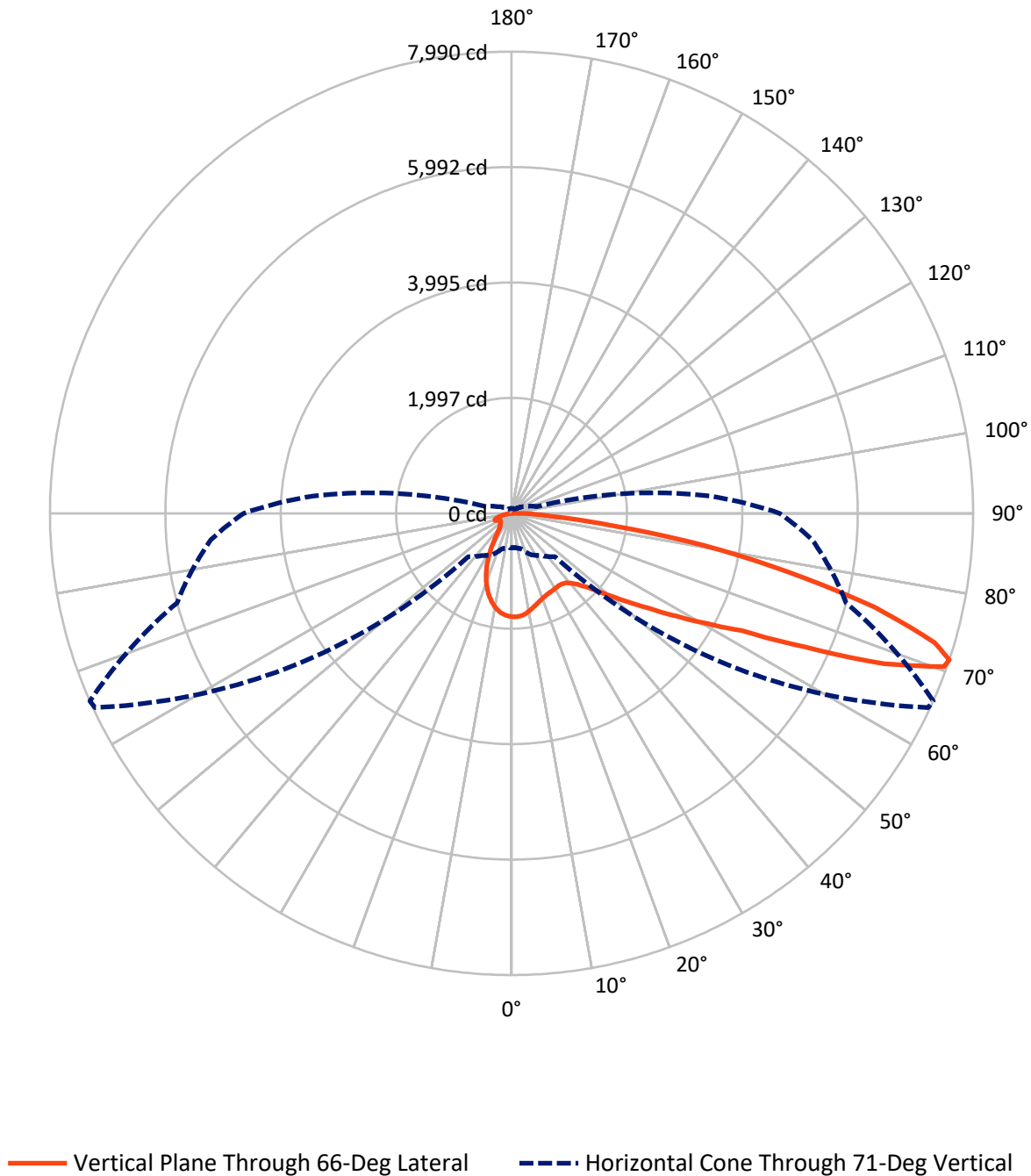
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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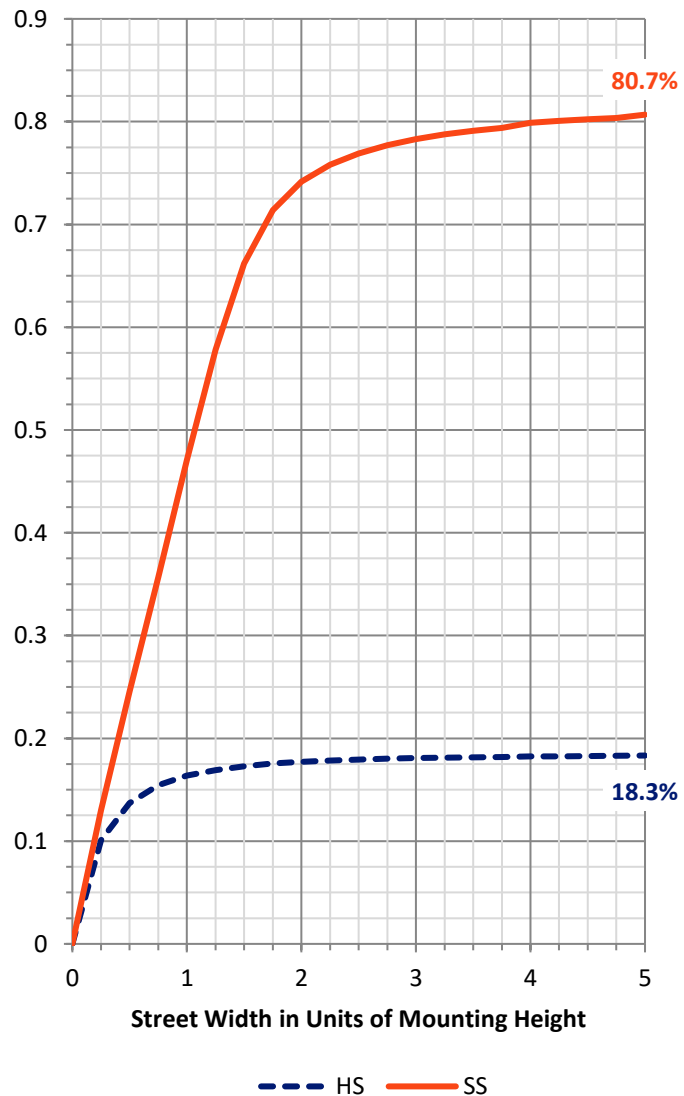
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.8	0.0	1447.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6364.2	0.0	6364.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	7812.0	0.0	7812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	2.0
10°-20°	377.8	4.8
20°-30°	507.5	6.5
30°-40°	667.6	8.5
40°-50°	971.2	12.4
50°-60°	1517.1	19.4
60°-70°	1900.4	24.3
70°-80°	1449.6	18.6
80°-90°	263.2	3.4
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°	7812.0	100.0
0°-180°	7812.0	100.0

Coefficient of Utilization



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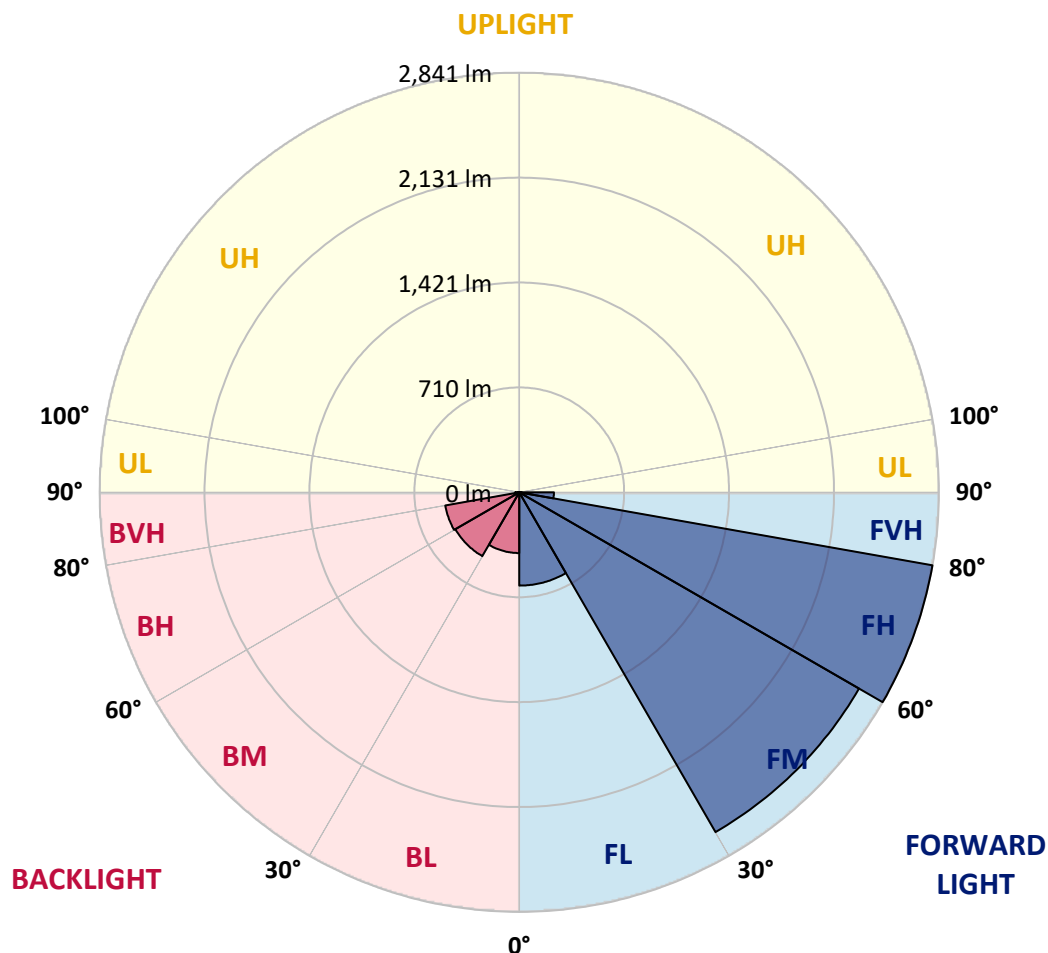
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.7	8.1			
FM	(30°-60°)	2656.5	34.0			
FH	(60°-80°)	2841.3	36.4			G2/5000
FVH	(80°-90°)	234.7	3.0			G3/500
BL	(0°-30°)	411.1	5.3	B1/500		
BM	(30°-60°)	499.4	6.4	B1/1000		
BH	(60°-80°)	508.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	28.5	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6
2.5°	1756.4	1753.7	1761.8	1770.2	1773.4	1778.8	1786.9	1791.5	1791.2	1792.0	1789.3
5°	1639.9	1636.4	1652.6	1665.8	1691.1	1719.7	1754.5	1779.3	1779.9	1793.9	1797.7
7.5°	1529.6	1527.1	1545.8	1567.1	1596.5	1640.2	1696.5	1749.9	1753.2	1791.2	1804.4
10°	1441.1	1440.6	1458.6	1481.8	1516.1	1564.9	1629.6	1707.9	1712.7	1778.2	1805.5
12.5°	1372.1	1373.1	1388.8	1415.2	1451.4	1502.3	1572.5	1660.7	1668.5	1757.8	1799.3
15°	1321.1	1325.4	1338.1	1364.8	1400.4	1452.2	1524.2	1617.0	1628.8	1734.8	1795.8
17.5°	1291.9	1296.8	1305.7	1327.8	1361.3	1411.2	1479.4	1581.1	1591.9	1717.3	1796.1
20°	1283.3	1287.4	1292.5	1306.0	1334.3	1379.6	1444.1	1548.7	1560.3	1703.3	1798.7
22.5°	1300.3	1303.3	1303.8	1302.7	1320.0	1357.0	1418.4	1525.0	1537.4	1694.1	1800.6
25°	1336.7	1340.8	1337.8	1327.8	1322.2	1344.8	1405.2	1509.3	1521.7	1687.4	1796.9
27.5°	1391.5	1392.0	1389.6	1376.6	1349.9	1346.2	1401.2	1500.2	1512.0	1679.5	1789.0
30°	1465.9	1469.4	1465.1	1447.6	1403.9	1367.7	1406.0	1491.3	1502.1	1669.6	1776.4
32.5°	1553.0	1561.7	1561.4	1543.1	1480.5	1416.0	1426.0	1485.9	1494.2	1659.0	1761.0
35°	1643.4	1655.3	1677.4	1669.6	1592.1	1492.3	1464.3	1494.5	1500.2	1657.7	1750.2
37.5°	1737.3	1749.1	1794.7	1815.7	1725.1	1601.6	1524.7	1525.0	1527.7	1674.1	1749.4
40°	1835.4	1848.1	1916.6	1971.4	1897.5	1739.9	1622.1	1588.6	1585.7	1714.6	1765.3
42.5°	1973.0	1984.3	2066.6	2136.4	2088.7	1917.2	1756.7	1686.8	1680.6	1793.9	1816.3
45°	2147.0	2156.7	2244.1	2318.8	2294.2	2119.4	1925.8	1821.9	1820.9	1926.1	1919.6
47.5°	2353.8	2361.4	2439.9	2512.2	2521.1	2352.2	2138.3	2030.4	2012.9	2107.3	2079.5
50°	2569.3	2577.7	2631.1	2708.8	2774.9	2663.7	2411.8	2285.9	2262.4	2346.5	2306.1
52.5°	2712.0	2723.1	2769.5	2867.9	3060.2	3005.2	2735.2	2595.5	2559.9	2636.5	2605.5
55°	2648.4	2673.2	2744.1	2901.9	3288.4	3526.8	3134.1	2956.6	2916.5	2980.1	2961.8
57.5°	2359.0	2392.9	2489.8	2733.3	3320.5	3986.4	3737.2	3382.0	3353.7	3335.3	3343.7
60°	1830.0	1862.7	1982.7	2300.2	3096.9	4322.0	4644.8	3906.3	3865.3	3691.9	3699.5
62.5°	1295.2	1278.7	1361.0	1593.2	2516.5	4361.3	5677.6	4607.6	4472.7	4068.4	4035.2
65°	987.7	983.9	1020.9	1094.8	1524.2	3890.1	6292.8	5786.3	5575.6	4511.3	4433.1
67.5°	811.6	804.8	841.2	948.9	981.5	2509.7	6306.3	7153.7	6946.9	5062.6	4893.2
70°	667.3	659.7	693.7	832.6	907.1	1272.8	5307.5	7954.5	7943.5	5760.6	5240.6
71°	598.2	592.8	633.6	787.8	891.1	1060.8	4582.5	7956.7	7989.9	5996.9	5220.1
72.5°	487.1	489.0	532.2	701.3	879.3	936.7	3368.0	7585.8	7655.9	6222.1	5033.7
75°	323.7	325.3	381.9	539.4	852.6	916.5	1851.1	6365.3	6494.3	6087.3	4593.3
77.5°	217.4	216.9	255.4	370.1	742.8	916.5	1085.3	4760.8	4902.4	4843.6	3541.1
80°	149.7	148.6	175.9	255.4	562.4	927.6	839.1	3336.4	3379.3	2615.7	1439.2
82.5°	91.7	92.5	114.9	180.4	382.7	834.8	792.2	1819.2	1772.6	733.6	359.5
85°	52.6	52.3	73.4	122.2	245.7	704.5	772.5	783.0	718.3	220.9	130.0
87.5°	18.9	20.2	39.4	67.7	140.8	490.6	655.4	407.3	367.1	99.8	58.8
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°	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6	1789.6
2.5°	1787.4	1789.0	1787.2	1776.4	1767.2	1752.4	1744.0	1732.4	1728.9	1727.3	1731.6
5°	1794.2	1794.7	1778.8	1750.5	1718.6	1681.2	1654.2	1621.0	1605.4	1598.6	1602.9
7.5°	1800.4	1797.9	1763.1	1708.9	1650.1	1584.9	1526.9	1473.7	1442.7	1430.0	1431.1
10°	1801.2	1790.9	1735.1	1651.2	1560.0	1464.3	1375.3	1293.3	1241.5	1207.8	1218.0
12.5°	1792.8	1775.6	1693.8	1576.5	1450.0	1319.5	1199.2	1076.2	1002.3	968.0	969.1
15°	1786.3	1755.1	1643.1	1488.6	1318.7	1145.8	981.5	836.9	758.2	723.1	706.7
17.5°	1780.9	1732.9	1584.3	1389.6	1163.6	944.3	746.8	617.9	574.8	564.5	560.2
20°	1773.4	1709.5	1518.8	1275.0	986.9	718.8	545.4	481.7	482.0	493.9	495.5
22.5°	1762.9	1682.8	1448.9	1146.3	797.3	523.5	427.5	409.2	427.8	450.4	454.5
25°	1747.2	1651.2	1371.2	1004.2	607.9	402.4	365.2	364.4	387.0	410.8	414.3
27.5°	1725.1	1609.9	1284.9	851.5	448.0	342.0	327.2	332.8	349.6	366.8	368.2
30°	1695.4	1561.9	1189.7	690.5	351.2	304.5	302.9	308.0	318.3	330.4	331.5
32.5°	1662.8	1513.1	1088.0	534.6	300.7	284.3	285.9	288.3	293.2	298.0	299.1
35°	1633.1	1463.2	983.9	406.2	276.7	271.1	270.0	269.4	270.0	268.4	268.6
37.5°	1614.0	1422.0	875.5	323.4	263.0	259.5	256.2	252.2	247.6	244.9	245.4
40°	1607.0	1391.2	765.7	279.4	251.6	249.2	243.0	234.4	229.0	227.4	227.4
42.5°	1625.9	1375.3	659.7	257.3	242.2	238.2	227.9	217.9	213.9	213.6	213.3
45°	1683.6	1381.8	558.9	245.2	233.6	225.8	212.3	203.9	201.2	201.7	201.5
47.5°	1787.2	1422.5	472.5	237.1	224.9	214.7	199.6	192.8	189.6	189.6	189.9
50°	1963.3	1517.7	403.8	230.3	217.7	204.4	190.4	182.1	177.7	177.5	177.5
52.5°	2219.8	1688.2	360.9	224.7	209.6	195.3	181.3	170.7	165.6	164.5	164.0
55°	2541.3	1932.5	349.0	220.9	198.8	185.3	170.2	159.7	154.0	151.6	151.3
57.5°	2900.8	2229.8	372.5	216.3	187.7	173.4	158.1	148.1	142.1	139.2	138.9
60°	3264.7	2554.2	468.2	209.8	178.6	160.5	145.6	136.5	130.5	127.3	126.8
62.5°	3629.1	2896.2	663.8	209.3	172.1	148.1	133.0	125.1	119.5	116.0	115.2
65°	4040.1	3270.6	886.0	223.6	169.9	136.7	120.0	113.8	109.0	105.7	105.5
67.5°	4512.1	3693.2	864.7	253.0	177.2	126.5	107.9	103.0	99.5	96.8	96.6
70°	4733.5	3627.2	537.5	273.8	187.5	116.5	96.3	92.8	90.1	88.2	87.4
71°	4640.8	3444.0	450.7	271.3	186.4	112.2	91.7	89.0	86.3	84.7	83.9
72.5°	4387.8	3140.9	376.0	252.5	174.2	104.4	85.8	83.1	80.6	78.8	78.2
75°	3937.3	2805.1	301.0	201.7	138.9	88.2	75.3	72.3	70.4	69.3	68.2
77.5°	2894.3	2001.8	232.8	159.4	102.2	72.0	64.2	62.0	60.1	58.5	57.7
80°	1108.8	775.4	156.7	118.9	75.0	56.9	51.8	50.7	48.8	47.7	47.7
82.5°	298.6	231.7	83.6	72.0	50.2	41.5	39.6	39.1	37.5	35.3	35.6
85°	120.8	102.2	46.9	39.6	30.7	24.5	26.7	27.0	25.1	22.4	22.7
87.5°	53.1	43.4	26.2	17.5	13.5	9.4	12.1	12.1	11.1	9.2	8.4
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)