

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: P323106

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6604 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

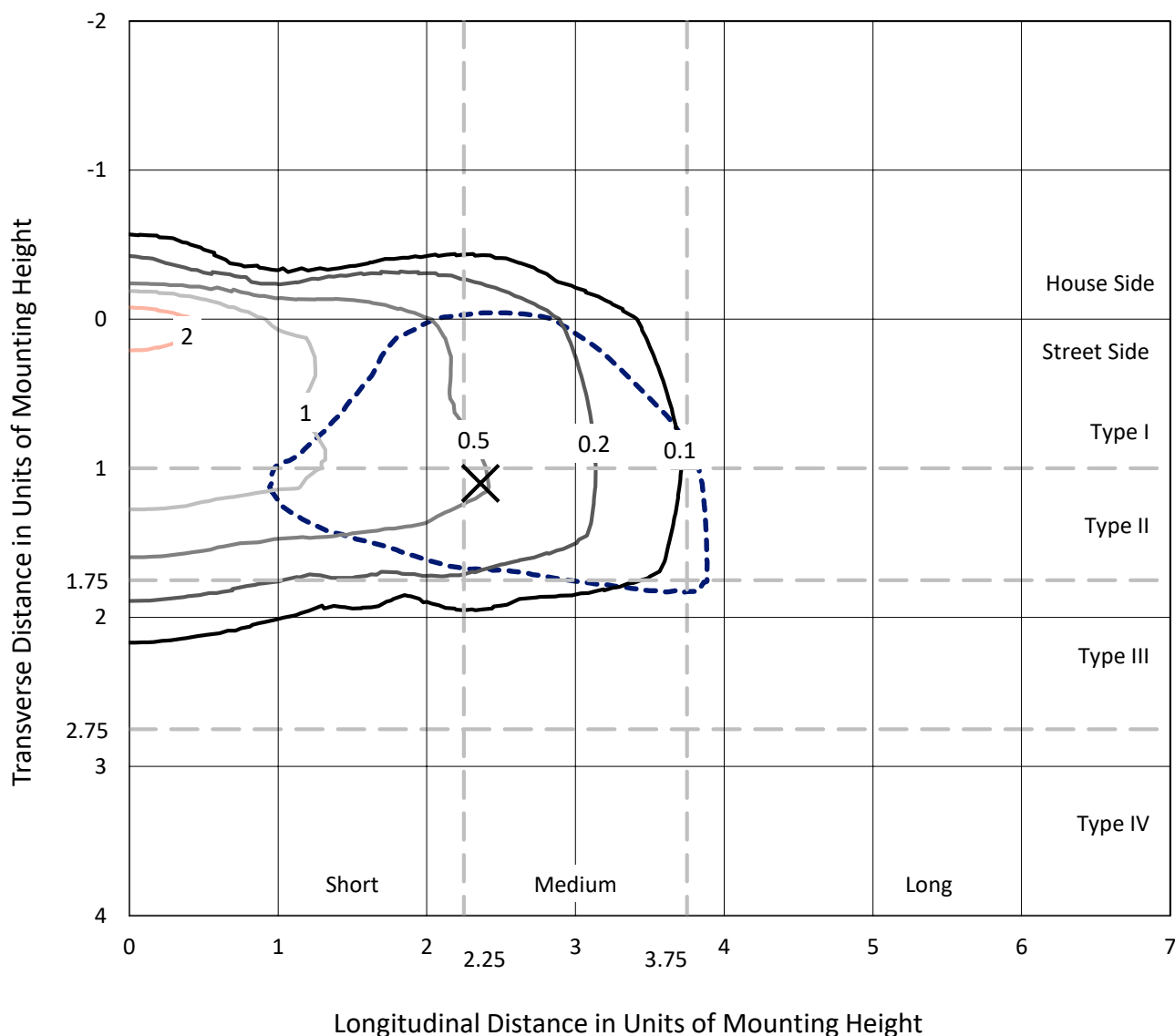
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

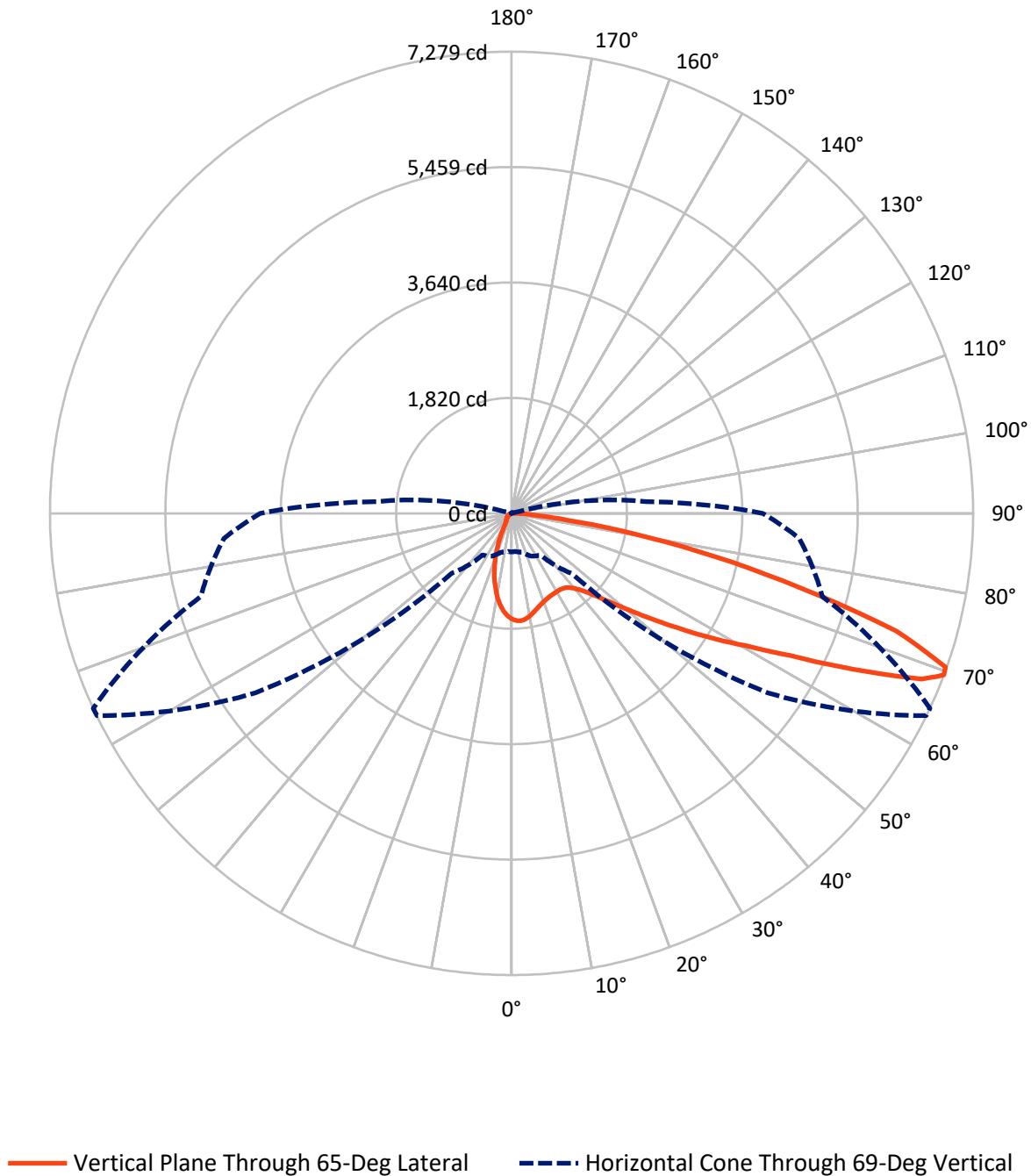
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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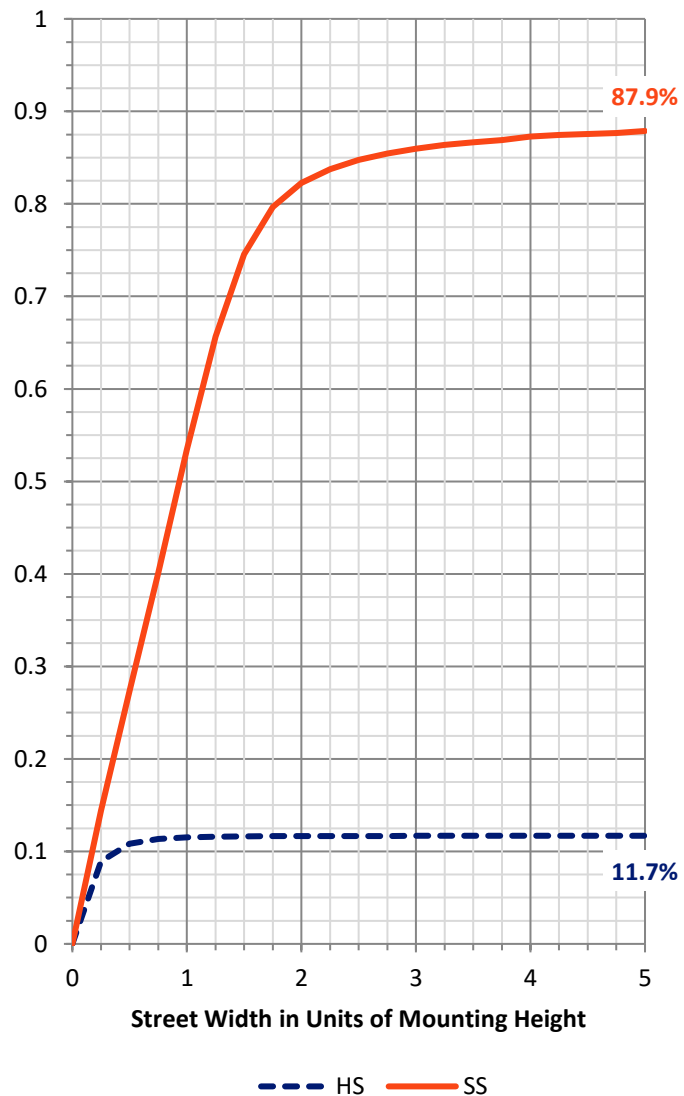
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.5	0.0	778.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5825.5	0.0	5825.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	6604.0	0.0	6604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	2.1
10°-20°	305.5	4.6
20°-30°	423.1	6.4
30°-40°	589.9	8.9
40°-50°	917.0	13.9
50°-60°	1472.1	22.3
60°-70°	1665.2	25.2
70°-80°	978.0	14.8
80°-90°	113.8	1.7
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°	6604.0	100.0
0°-180°	6604.0	100.0

Coefficient of Utilization



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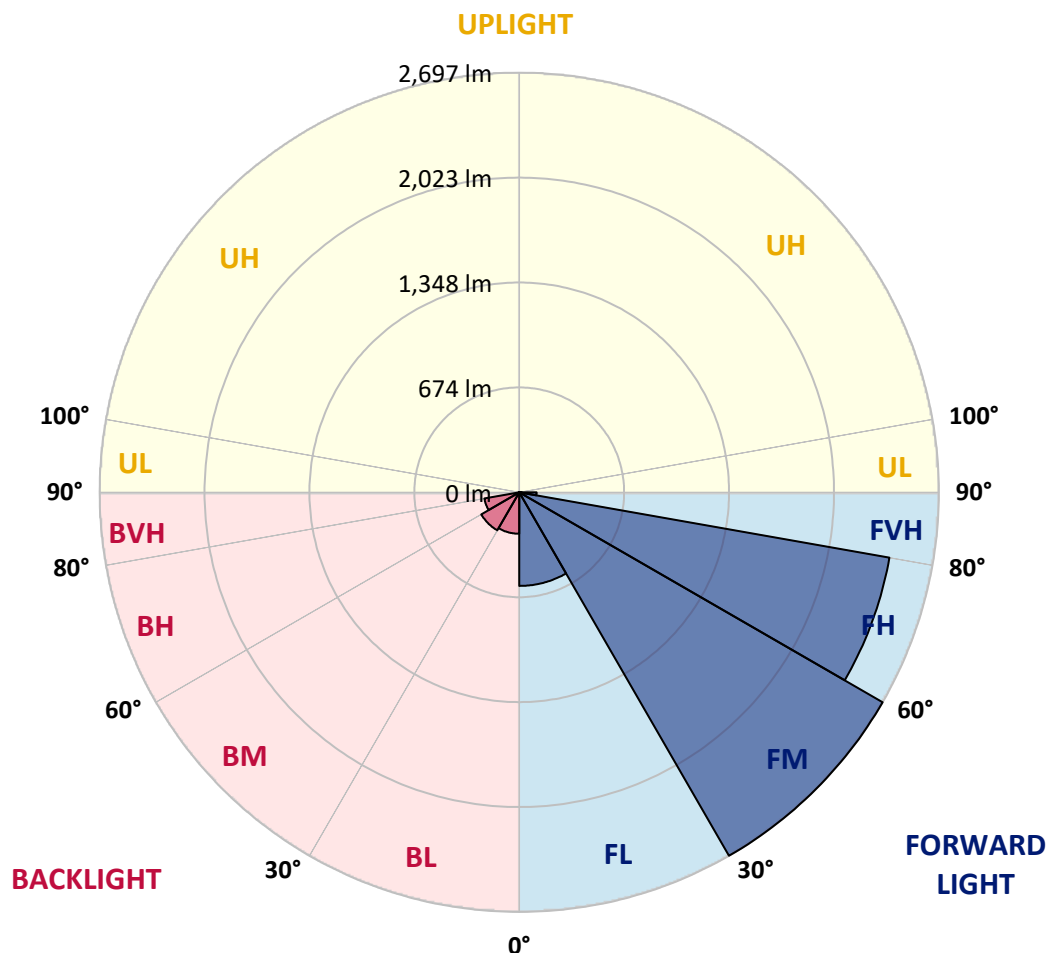
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.8	9.1			
FM	(30°-60°)	2696.9	40.8			
FH	(60°-80°)	2415.7	36.6			G2/5000
FVH	(80°-90°)	111.2	1.7			G2/225
BL	(0°-30°)	266.4	4.0	B1/500		
BM	(30°-60°)	282.1	4.3	B1/1000		
BH	(60°-80°)	227.4	3.4	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1683.7	1679.5	1682.8	1690.1	1693.7	1693.7	1696.5	1693.2	1694.3	1686.2	1674.4
5°	1578.3	1571.9	1581.1	1601.5	1626.6	1648.2	1680.0	1696.8	1698.5	1698.7	1685.1
7.5°	1464.8	1459.0	1472.7	1496.7	1529.1	1569.1	1624.7	1673.3	1676.1	1702.4	1692.3
10°	1372.6	1368.4	1384.4	1410.1	1448.1	1492.8	1561.0	1628.6	1636.7	1694.8	1691.2
12.5°	1299.4	1296.1	1311.2	1340.8	1379.6	1429.1	1500.3	1578.9	1589.8	1677.8	1685.6
15°	1246.0	1245.5	1258.1	1286.6	1329.6	1375.7	1448.6	1532.8	1545.3	1659.3	1684.8
17.5°	1218.1	1218.9	1228.2	1252.5	1289.4	1335.2	1405.0	1493.9	1507.6	1642.9	1689.0
20°	1215.3	1216.1	1221.2	1234.9	1264.8	1305.3	1369.6	1461.2	1475.5	1630.6	1695.7
22.5°	1239.9	1239.3	1240.7	1239.3	1256.1	1286.8	1346.1	1436.1	1452.6	1622.5	1701.0
25°	1287.1	1286.3	1285.7	1275.4	1264.2	1280.7	1336.3	1421.8	1437.5	1616.6	1704.1
27.5°	1352.8	1352.2	1351.4	1334.3	1300.8	1290.5	1337.4	1416.5	1429.6	1611.8	1703.5
30°	1439.1	1443.1	1441.9	1418.2	1365.9	1320.4	1349.2	1413.7	1425.2	1602.6	1697.6
32.5°	1540.6	1548.4	1554.5	1529.1	1463.7	1379.6	1376.3	1416.8	1425.2	1595.6	1687.0
35°	1645.9	1656.0	1678.6	1669.7	1583.6	1468.8	1422.9	1435.2	1442.2	1599.5	1682.0
37.5°	1749.6	1761.6	1810.8	1836.8	1740.7	1586.7	1495.6	1480.8	1484.4	1623.3	1687.6
40°	1870.0	1888.2	1962.8	2004.7	1928.2	1744.6	1604.3	1559.0	1560.4	1675.5	1713.6
42.5°	2028.2	2046.9	2127.7	2193.4	2139.4	1944.1	1751.8	1678.6	1677.2	1773.4	1774.8
45°	2221.0	2240.6	2324.1	2397.1	2372.8	2180.5	1940.7	1853.3	1851.6	1927.6	1890.7
47.5°	2439.6	2458.8	2533.4	2608.6	2634.9	2456.6	2181.3	2091.6	2087.7	2141.9	2069.8
50°	2627.1	2639.6	2708.4	2809.5	2928.0	2795.8	2480.6	2394.3	2390.1	2426.7	2332.8
52.5°	2695.2	2702.5	2772.4	2914.0	3209.7	3255.2	2873.8	2762.6	2759.5	2775.4	2682.9
55°	2557.2	2570.3	2656.1	2866.3	3362.3	3774.5	3370.1	3218.6	3195.4	3161.1	3049.0
57.5°	2181.1	2202.0	2294.2	2573.7	3291.0	4186.4	4099.5	3734.5	3700.4	3490.3	3346.6
60°	1634.2	1659.9	1736.5	2038.0	2910.7	4333.1	4896.4	4309.3	4232.5	3752.4	3620.2
62.5°	1121.4	1134.3	1186.2	1382.7	2143.6	4092.7	5563.2	5079.2	4938.9	4037.4	3916.1
65°	856.5	861.0	882.2	949.8	1276.5	3324.6	5828.4	6095.0	5925.3	4378.3	4223.2
67.5°	690.2	686.6	715.9	812.6	854.8	2028.2	5519.0	7056.0	6976.6	4834.1	4532.3
69°	608.6	603.6	633.5	745.8	802.8	1340.8	4933.9	7274.2	7279.2	5074.7	4553.5
70°	547.7	551.1	580.7	706.2	785.2	1052.4	4375.0	7218.6	7258.3	5164.7	4426.1
72.5°	365.8	374.7	434.3	586.3	755.1	796.4	2641.6	6194.4	6347.0	4962.1	3797.4
75°	206.2	212.9	283.6	442.1	711.5	758.4	1395.3	4563.6	4711.2	4149.5	2928.3
77.5°	101.2	104.8	160.4	285.3	594.9	722.6	791.4	3099.9	3268.4	2708.4	1656.3
80°	42.8	44.7	80.2	176.1	425.3	689.7	587.7	1907.8	1928.7	1061.1	441.2
82.5°	16.5	17.0	33.8	109.8	270.2	537.7	491.5	904.6	882.8	199.8	100.6
85°	2.0	2.2	12.3	65.9	150.3	276.7	399.3	389.8	360.8	39.7	51.7
87.5°	0.0	0.0	0.8	20.1	44.7	129.7	207.6	161.8	145.9	12.9	26.8
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°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1664.7	1661.9	1646.8	1625.0	1604.3	1578.6	1554.0	1539.2	1527.4	1519.6	1528.8
5°	1669.1	1656.8	1611.0	1552.3	1494.7	1429.9	1369.6	1318.4	1298.3	1275.9	1286.0
7.5°	1667.7	1644.5	1562.1	1457.6	1352.0	1242.7	1139.3	1059.7	1018.3	977.8	988.1
10°	1660.7	1621.6	1496.7	1341.9	1183.7	1026.7	880.0	768.5	706.2	649.7	657.8
12.5°	1645.4	1590.9	1419.6	1209.4	997.9	790.8	619.0	476.2	399.6	365.8	370.0
15°	1636.1	1561.0	1338.0	1075.3	799.5	550.8	378.4	281.4	246.5	235.3	236.7
17.5°	1631.7	1532.2	1253.6	921.9	596.6	350.7	244.5	215.7	208.2	206.2	206.8
20°	1627.2	1503.1	1166.7	770.1	411.1	235.9	200.9	192.5	189.7	187.2	187.8
22.5°	1619.7	1475.2	1073.3	616.5	277.2	191.4	181.1	173.0	167.1	164.0	164.6
25°	1610.4	1445.8	978.1	459.1	202.3	170.7	161.0	149.5	142.5	136.9	137.2
27.5°	1595.6	1409.8	879.7	334.2	169.9	152.9	139.7	127.1	115.4	109.0	109.0
30°	1574.9	1369.0	770.4	239.2	152.3	135.3	119.3	103.7	91.1	85.2	84.7
32.5°	1552.0	1326.5	660.0	181.4	138.3	118.8	100.6	84.1	72.9	68.2	67.9
35°	1532.5	1280.7	549.9	152.0	124.4	102.8	83.0	69.0	60.1	56.2	55.9
37.5°	1519.9	1234.9	442.6	135.8	111.8	88.0	69.6	57.0	50.6	47.5	47.2
40°	1517.9	1200.8	344.6	123.5	100.0	74.9	58.1	48.3	42.5	39.1	38.8
42.5°	1543.4	1181.2	264.4	113.2	88.0	63.4	49.5	41.4	35.2	31.9	31.6
45°	1610.2	1187.4	203.4	104.0	76.0	53.7	41.9	34.4	28.8	26.3	25.7
47.5°	1732.0	1229.8	161.8	94.7	64.6	45.5	35.8	28.5	23.8	21.2	21.0
50°	1948.8	1329.6	135.3	84.7	53.9	38.8	29.6	23.2	19.3	17.0	16.8
52.5°	2236.7	1507.3	120.7	74.9	44.7	33.0	24.3	18.4	15.1	13.4	13.1
55°	2554.1	1722.5	111.2	64.3	36.6	27.4	19.3	14.5	11.7	10.3	9.8
57.5°	2864.0	1908.9	102.3	53.9	30.5	22.4	15.4	11.5	9.2	7.8	7.5
60°	3148.8	2080.2	91.9	43.3	24.9	17.6	12.0	8.9	7.3	5.9	5.9
62.5°	3453.7	2212.6	77.7	33.8	20.4	13.4	9.8	8.1	5.9	5.0	4.8
65°	3776.7	2311.0	60.9	26.3	15.9	10.1	8.1	8.4	4.8	3.6	3.4
67.5°	4015.3	2291.4	45.0	20.7	12.3	7.8	7.8	8.9	4.2	2.8	2.5
69°	3962.8	2132.4	37.7	17.9	10.6	6.7	7.3	8.9	3.9	2.5	2.2
70°	3810.5	1956.4	33.3	15.9	9.5	6.1	7.0	8.7	3.6	2.5	2.2
72.5°	3173.4	1473.5	26.0	12.0	7.5	5.0	5.9	7.5	3.6	2.5	2.0
75°	2387.0	943.1	19.8	8.7	5.6	3.9	4.5	5.6	3.6	2.2	2.0
77.5°	1298.9	340.1	14.3	5.9	3.9	3.1	3.1	4.2	3.4	1.7	1.1
80°	333.9	85.5	8.9	3.9	3.1	2.2	2.0	2.8	2.0	0.3	0.0
82.5°	82.4	19.3	4.8	2.8	2.2	0.8	0.8	1.4	0.8	0.0	0.0
85°	45.3	9.5	3.1	2.0	1.1	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	23.2	2.8	0.8	0.6	0.3	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)