

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: P319466

Luminaire Tested: **GAN-SA2A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319466
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-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 6867 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

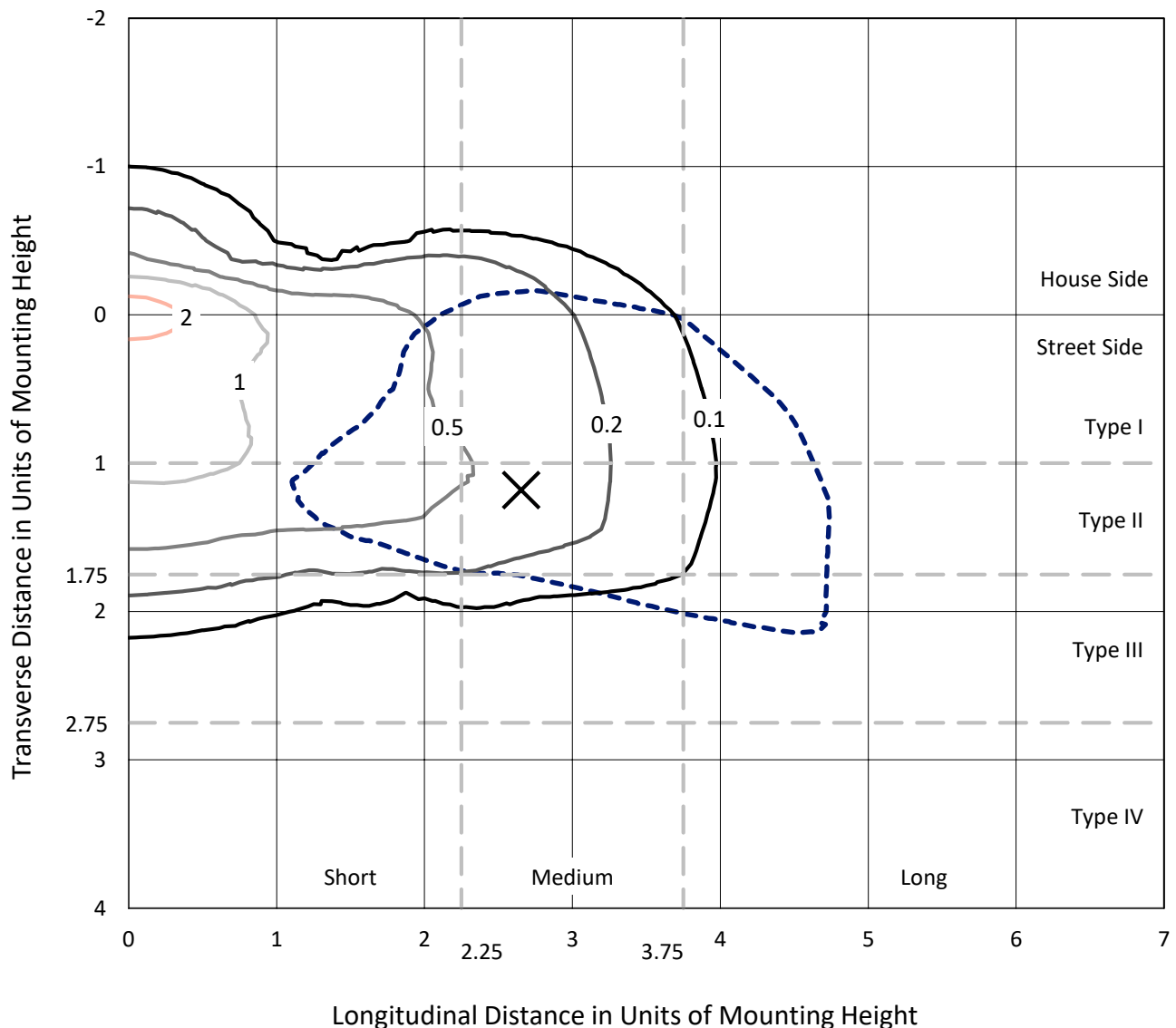
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

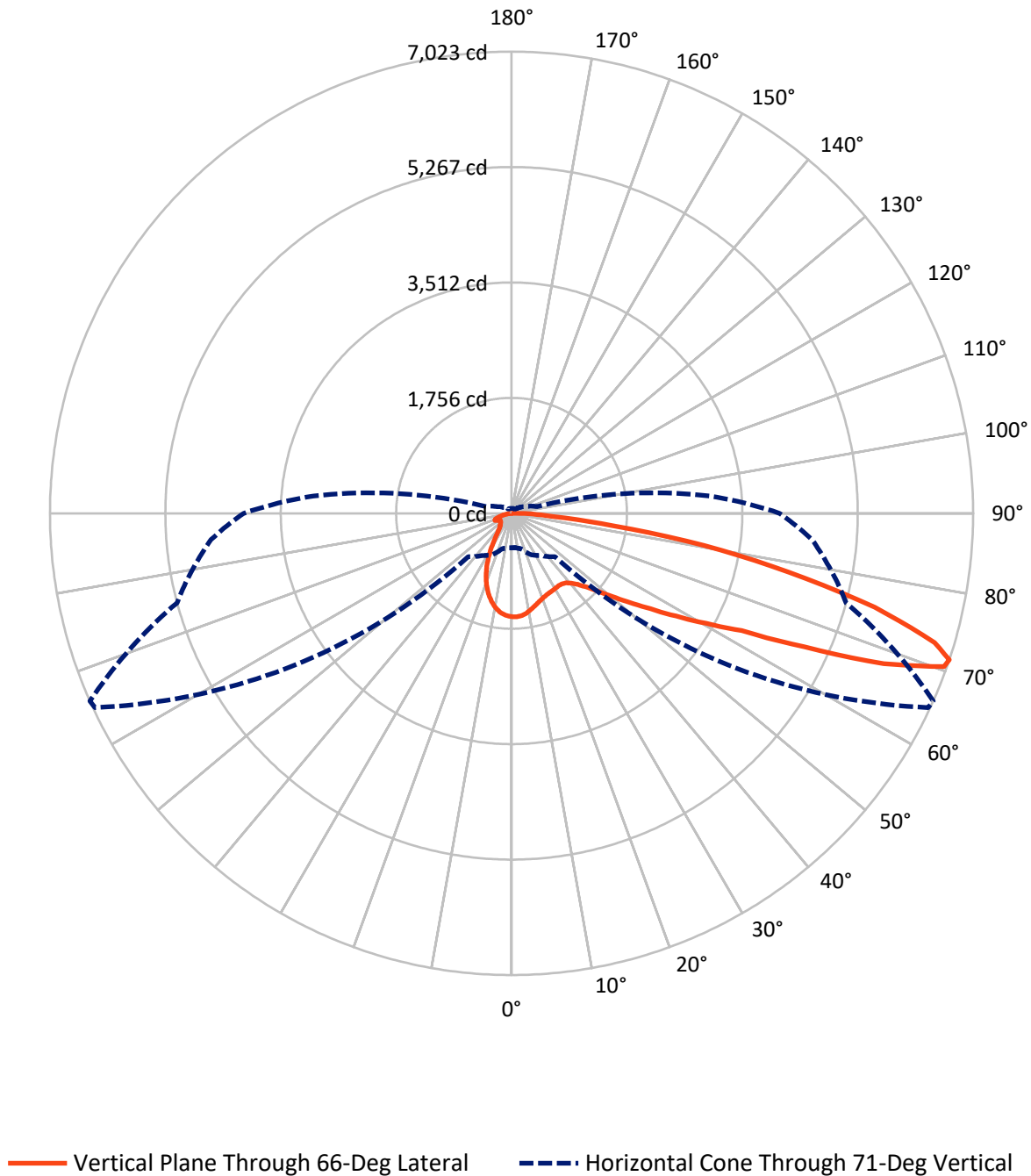
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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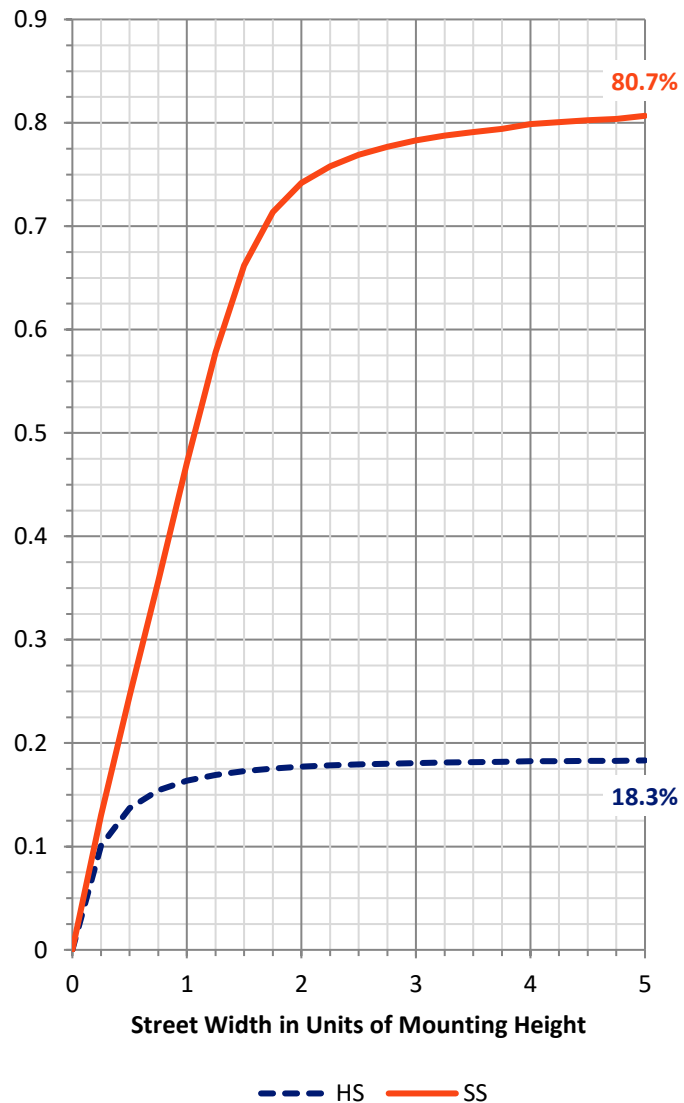
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.6	0.0	1272.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5594.4	0.0	5594.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	6867.0	0.0	6867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	2.0
10°-20°	332.1	4.8
20°-30°	446.1	6.5
30°-40°	586.9	8.5
40°-50°	853.7	12.4
50°-60°	1333.6	19.4
60°-70°	1670.5	24.3
70°-80°	1274.2	18.6
80°-90°	231.4	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°	6867.0	100.0
0°-180°	6867.0	100.0

Coefficient of Utilization



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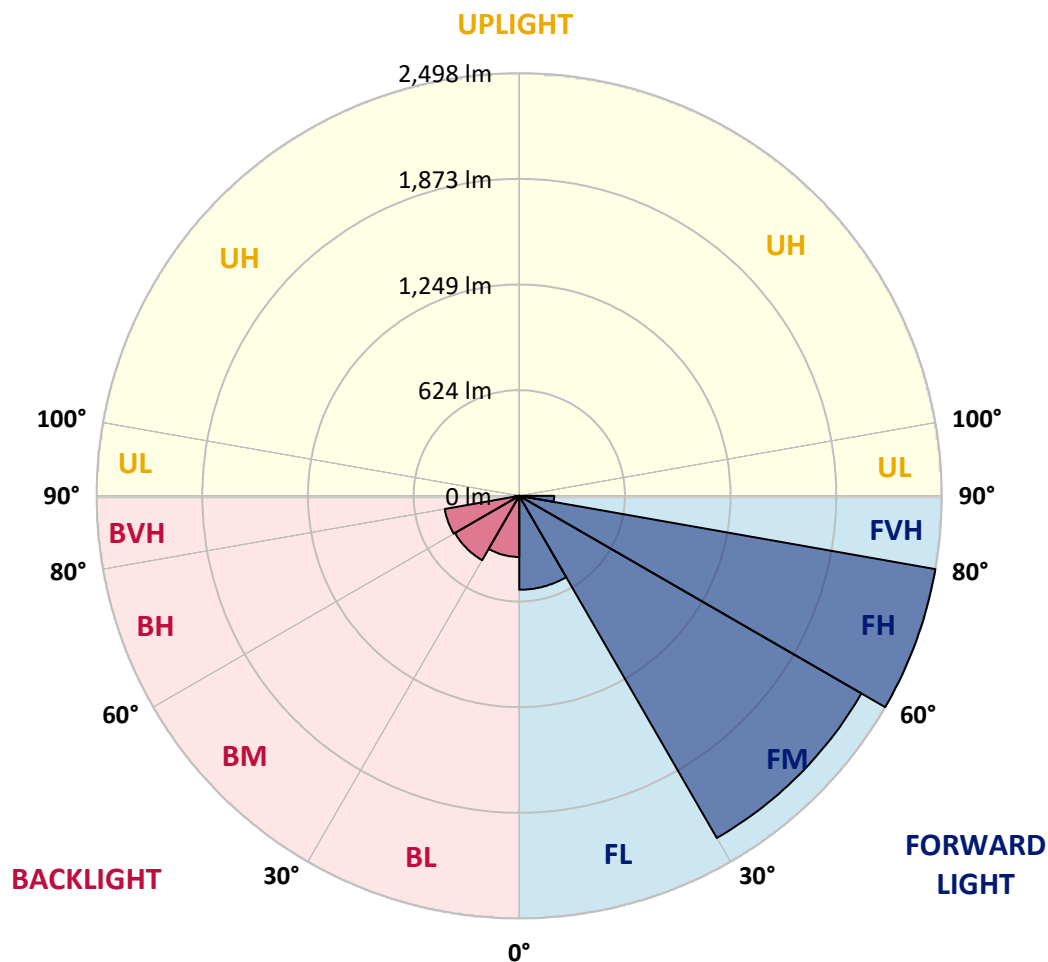
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.3	8.1			
FM	(30°-60°)	2335.1	34.0			
FH	(60°-80°)	2497.6	36.4			G2/5000
FVH	(80°-90°)	206.3	3.0			G2/225
BL	(0°-30°)	361.4	5.3	B1/500		
BM	(30°-60°)	439.0	6.4	B1/1000		
BH	(60°-80°)	447.2	6.5	B1/500		G1/500
BVH	(80°-90°)	25.1	0.4			G1/100
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°	65°	66°	75°	85°
0°	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1
2.5°	1543.9	1541.6	1548.7	1556.0	1558.9	1563.6	1570.7	1574.8	1574.5	1575.2	1572.9
5°	1441.5	1438.4	1452.7	1464.3	1486.6	1511.7	1542.3	1564.1	1564.6	1576.9	1580.2
7.5°	1344.5	1342.4	1358.8	1377.5	1403.3	1441.7	1491.3	1538.2	1541.1	1574.5	1586.1
10°	1266.8	1266.3	1282.2	1302.6	1332.7	1375.6	1432.5	1501.3	1505.5	1563.1	1587.1
12.5°	1206.1	1207.0	1220.8	1244.0	1275.8	1320.6	1382.2	1459.8	1466.6	1545.1	1581.6
15°	1161.3	1165.1	1176.2	1199.7	1231.0	1276.5	1339.8	1421.4	1431.8	1525.0	1578.5
17.5°	1135.7	1139.9	1147.8	1167.2	1196.6	1240.5	1300.4	1389.8	1399.3	1509.6	1578.8
20°	1128.1	1131.6	1136.1	1148.0	1172.9	1212.7	1269.4	1361.4	1371.6	1497.2	1581.2
22.5°	1143.0	1145.6	1146.1	1145.1	1160.3	1192.8	1246.9	1340.5	1351.4	1489.2	1582.8
25°	1175.0	1178.6	1176.0	1167.2	1162.2	1182.1	1235.2	1326.8	1337.7	1483.2	1579.5
27.5°	1223.2	1223.6	1221.5	1210.1	1186.6	1183.3	1231.7	1318.7	1329.1	1476.4	1572.6
30°	1288.6	1291.7	1287.9	1272.5	1234.1	1202.3	1236.0	1310.9	1320.4	1467.6	1561.5
32.5°	1365.2	1372.8	1372.5	1356.4	1301.4	1244.7	1253.5	1306.1	1313.5	1458.3	1548.0
35°	1444.6	1455.0	1474.5	1467.6	1399.5	1311.8	1287.2	1313.7	1318.7	1457.2	1538.5
37.5°	1527.1	1537.5	1577.6	1596.1	1516.4	1407.8	1340.3	1340.5	1342.9	1471.6	1537.8
40°	1613.4	1624.5	1684.8	1732.9	1667.9	1529.5	1425.9	1396.5	1393.9	1507.2	1551.8
42.5°	1734.3	1744.3	1816.6	1878.0	1836.0	1685.2	1544.2	1482.8	1477.3	1576.9	1596.6
45°	1887.2	1895.8	1972.6	2038.3	2016.7	1863.1	1692.8	1601.5	1600.6	1693.1	1687.4
47.5°	2069.1	2075.7	2144.7	2208.3	2216.1	2067.7	1879.7	1784.8	1769.4	1852.4	1828.0
50°	2258.5	2265.9	2312.8	2381.1	2439.2	2341.5	2120.1	2009.3	1988.7	2062.7	2027.1
52.5°	2383.9	2393.7	2434.4	2521.0	2690.0	2641.7	2404.3	2281.5	2250.2	2317.6	2290.3
55°	2328.0	2349.8	2412.2	2550.9	2890.6	3100.2	2755.0	2599.0	2563.7	2619.6	2603.5
57.5°	2073.6	2103.5	2188.6	2402.7	2918.8	3504.2	3285.1	2972.9	2948.0	2931.9	2939.2
60°	1608.7	1637.3	1742.9	2021.9	2722.3	3799.1	4082.9	3433.8	3397.7	3245.3	3251.9
62.5°	1138.5	1124.0	1196.4	1400.5	2212.1	3833.8	4990.8	4050.2	3931.7	3576.3	3547.1
65°	868.2	864.9	897.4	962.4	1339.8	3419.6	5531.6	5086.3	4901.1	3965.6	3896.8
67.5°	713.4	707.5	739.5	834.1	862.8	2206.1	5543.4	6288.4	6106.5	4450.2	4301.3
70°	586.6	579.9	609.8	731.9	797.3	1118.8	4665.5	6992.3	6982.6	5063.8	4606.7
71°	525.9	521.1	556.9	692.5	783.3	932.5	4028.2	6994.2	7023.3	5271.5	4588.7
72.5°	428.2	429.8	467.8	616.4	772.9	823.4	2960.6	6668.2	6729.8	5469.4	4424.8
75°	284.5	285.9	335.7	474.2	749.4	805.6	1627.2	5595.3	5708.7	5350.9	4037.7
77.5°	191.1	190.6	224.5	325.3	652.9	805.6	954.1	4184.9	4309.4	4257.7	3112.8
80°	131.6	130.6	154.6	224.5	494.3	815.4	737.6	2932.8	2970.5	2299.3	1265.1
82.5°	80.6	81.3	101.0	158.6	336.4	733.8	696.3	1599.2	1558.2	644.9	316.0
85°	46.2	46.0	64.5	107.4	216.0	619.3	679.0	688.3	631.4	194.2	114.3
87.5°	16.6	17.8	34.6	59.5	123.8	431.3	576.1	358.0	322.7	87.7	51.7
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°	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1
2.5°	1571.2	1572.6	1571.0	1561.5	1553.4	1540.4	1533.0	1522.8	1519.8	1518.3	1522.1
5°	1577.1	1577.6	1563.6	1538.7	1510.7	1477.8	1454.1	1424.9	1411.2	1405.2	1409.0
7.5°	1582.6	1580.4	1549.9	1502.2	1450.5	1393.1	1342.2	1295.5	1268.2	1257.1	1258.0
10°	1583.3	1574.3	1525.2	1451.5	1371.3	1287.2	1208.9	1136.8	1091.3	1061.7	1070.7
12.5°	1575.9	1560.8	1488.9	1385.8	1274.6	1159.8	1054.1	946.0	881.0	850.9	851.9
15°	1570.3	1542.7	1444.4	1308.5	1159.1	1007.2	862.8	735.7	666.5	635.6	621.2
17.5°	1565.5	1523.3	1392.7	1221.5	1022.8	830.1	656.5	543.2	505.2	496.2	492.4
20°	1558.9	1502.7	1335.1	1120.7	867.5	631.8	479.4	423.4	423.7	434.1	435.5
22.5°	1549.6	1479.2	1273.7	1007.6	700.8	460.2	375.8	359.7	376.0	395.9	399.5
25°	1535.9	1451.5	1205.4	882.7	534.4	353.7	321.0	320.3	340.2	361.1	364.2
27.5°	1516.4	1415.2	1129.5	748.5	393.8	300.6	287.6	292.6	307.3	322.4	323.6
30°	1490.4	1373.0	1045.8	607.0	308.7	267.7	266.3	270.8	279.8	290.4	291.4
32.5°	1461.7	1330.1	956.4	469.9	264.4	249.9	251.3	253.4	257.7	262.0	262.9
35°	1435.6	1286.2	864.9	357.1	243.3	238.3	237.3	236.9	237.3	235.9	236.1
37.5°	1418.8	1249.9	769.6	284.3	231.2	228.1	225.2	221.7	217.6	215.3	215.8
40°	1412.6	1222.9	673.1	245.6	221.2	219.1	213.6	206.0	201.3	199.9	199.9
42.5°	1429.2	1208.9	579.9	226.2	212.9	209.4	200.3	191.6	188.0	187.8	187.5
45°	1479.9	1214.6	491.3	215.5	205.3	198.4	186.6	179.2	176.9	177.3	177.1
47.5°	1571.0	1250.4	415.4	208.4	197.7	188.7	175.4	169.5	166.7	166.7	166.9
50°	1725.8	1334.1	354.9	202.5	191.3	179.7	167.4	160.0	156.2	156.0	156.0
52.5°	1951.3	1484.0	317.2	197.5	184.2	171.7	159.3	150.1	145.6	144.6	144.2
55°	2233.9	1698.8	306.8	194.2	174.7	162.9	149.6	140.4	135.4	133.2	133.0
57.5°	2549.9	1960.0	327.4	190.1	165.0	152.4	138.9	130.2	124.9	122.3	122.1
60°	2869.7	2245.2	411.6	184.5	157.0	141.1	128.0	120.0	114.8	111.9	111.4
62.5°	3190.1	2545.9	583.5	184.0	151.3	130.2	116.9	110.0	105.0	101.9	101.2
65°	3551.4	2875.0	778.8	196.5	149.4	120.2	105.5	100.1	95.8	92.9	92.7
67.5°	3966.3	3246.5	760.1	222.4	155.8	111.2	94.8	90.6	87.5	85.1	84.9
70°	4160.9	3188.4	472.5	240.6	164.8	102.4	84.6	81.6	79.2	77.5	76.8
71°	4079.4	3027.4	396.2	238.5	163.8	98.6	80.6	78.2	75.9	74.4	73.7
72.5°	3857.0	2760.9	330.5	221.9	153.2	91.8	75.4	73.0	70.9	69.2	68.8
75°	3461.0	2465.7	264.6	177.3	122.1	77.5	66.1	63.5	61.9	60.9	60.0
77.5°	2544.2	1759.7	204.6	140.1	89.9	63.3	56.4	54.5	52.9	51.4	50.7
80°	974.7	681.6	137.7	104.6	65.9	50.0	45.5	44.6	42.9	42.0	42.0
82.5°	262.5	203.7	73.5	63.3	44.1	36.5	34.9	34.4	33.0	31.1	31.3
85°	106.2	89.9	41.3	34.9	27.0	21.6	23.5	23.7	22.0	19.7	19.9
87.5°	46.7	38.2	23.0	15.4	11.9	8.3	10.7	10.7	9.7	8.1	7.3
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)