

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: P319295

Luminaire Tested: **GAN-SA1D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319295
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-SA1D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6655 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

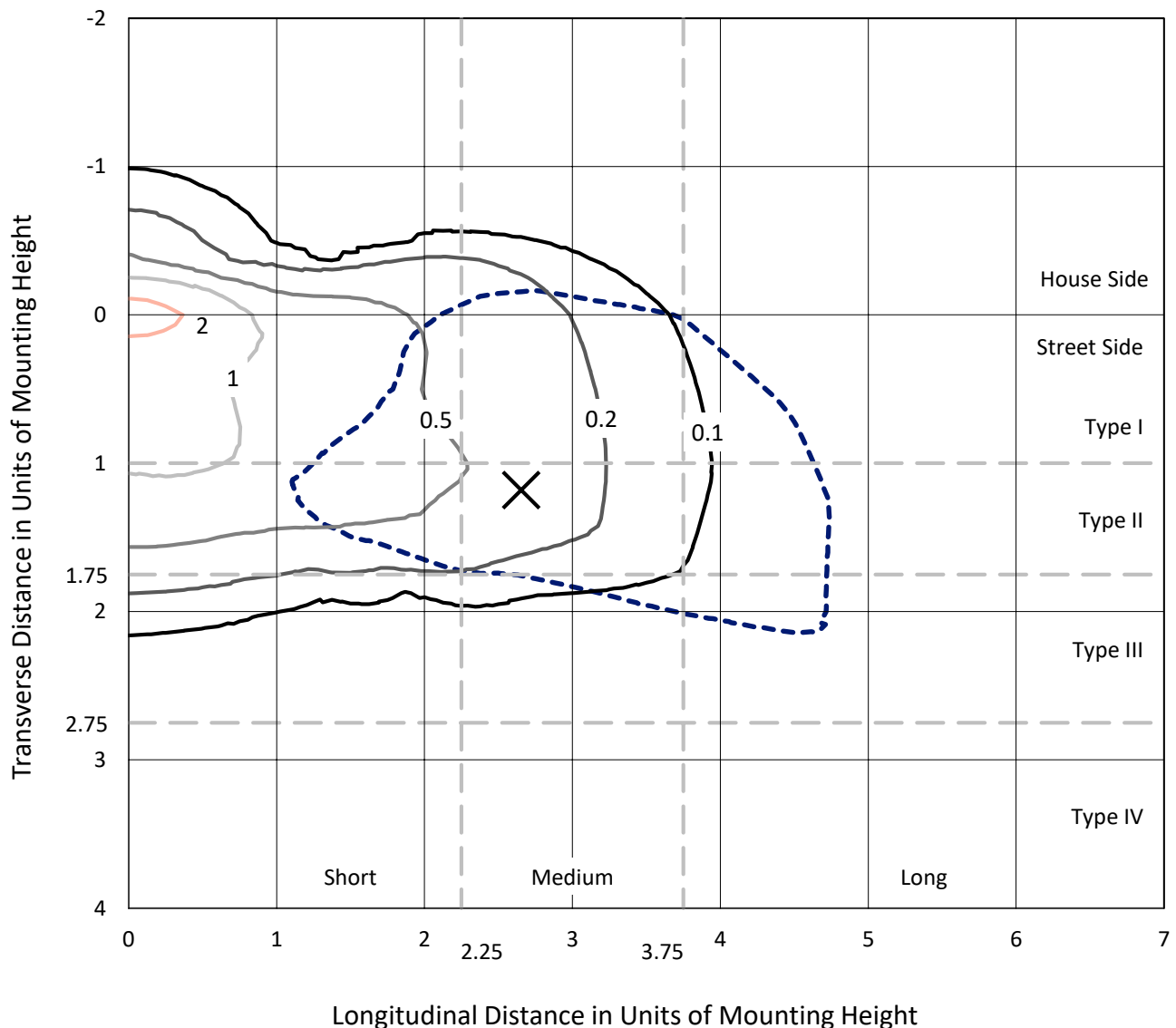
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

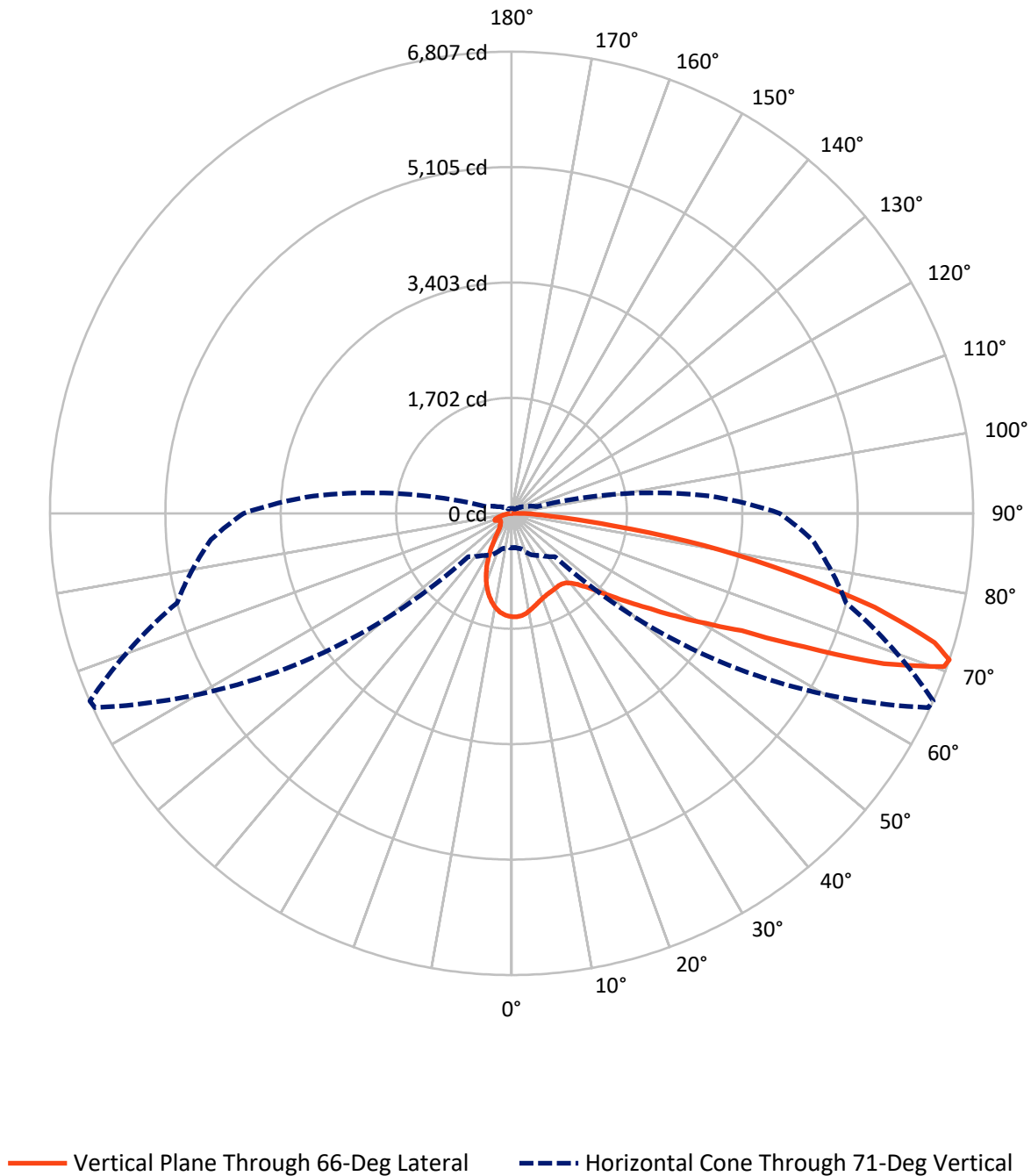
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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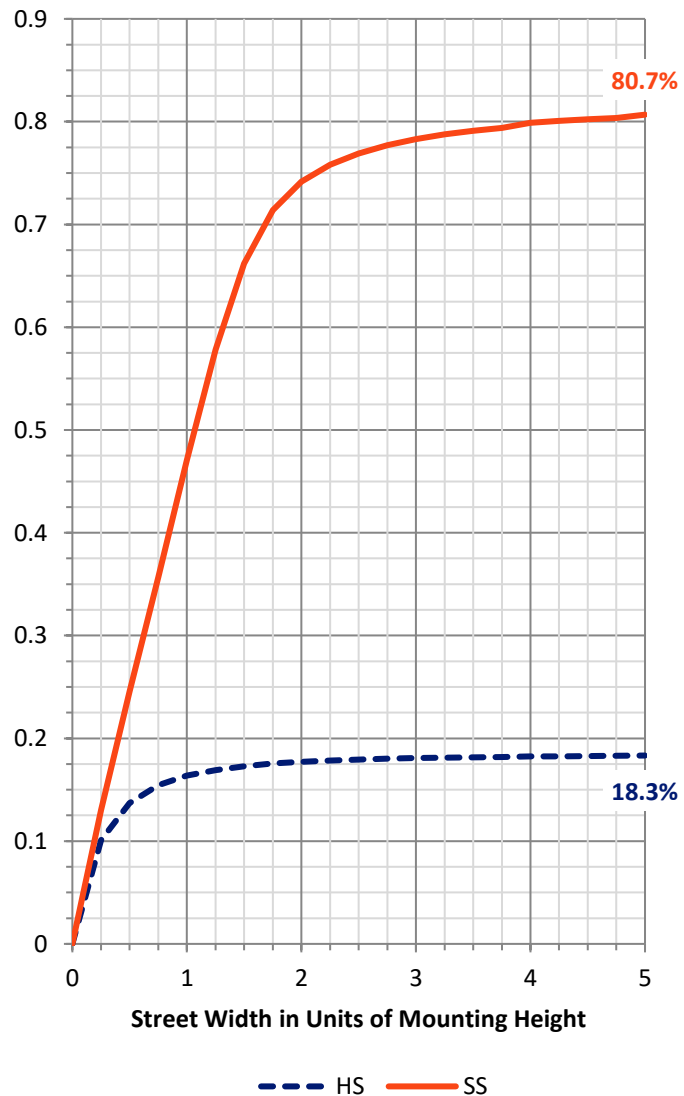
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.3	0.0	1233.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5421.6	0.0	5421.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	6655.0	0.0	6655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	2.0
10°-20°	321.9	4.8
20°-30°	432.3	6.5
30°-40°	568.7	8.5
40°-50°	827.4	12.4
50°-60°	1292.4	19.4
60°-70°	1619.0	24.3
70°-80°	1234.9	18.6
80°-90°	224.2	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°	6655.0	100.0
0°-180°	6655.0	100.0

Coefficient of Utilization



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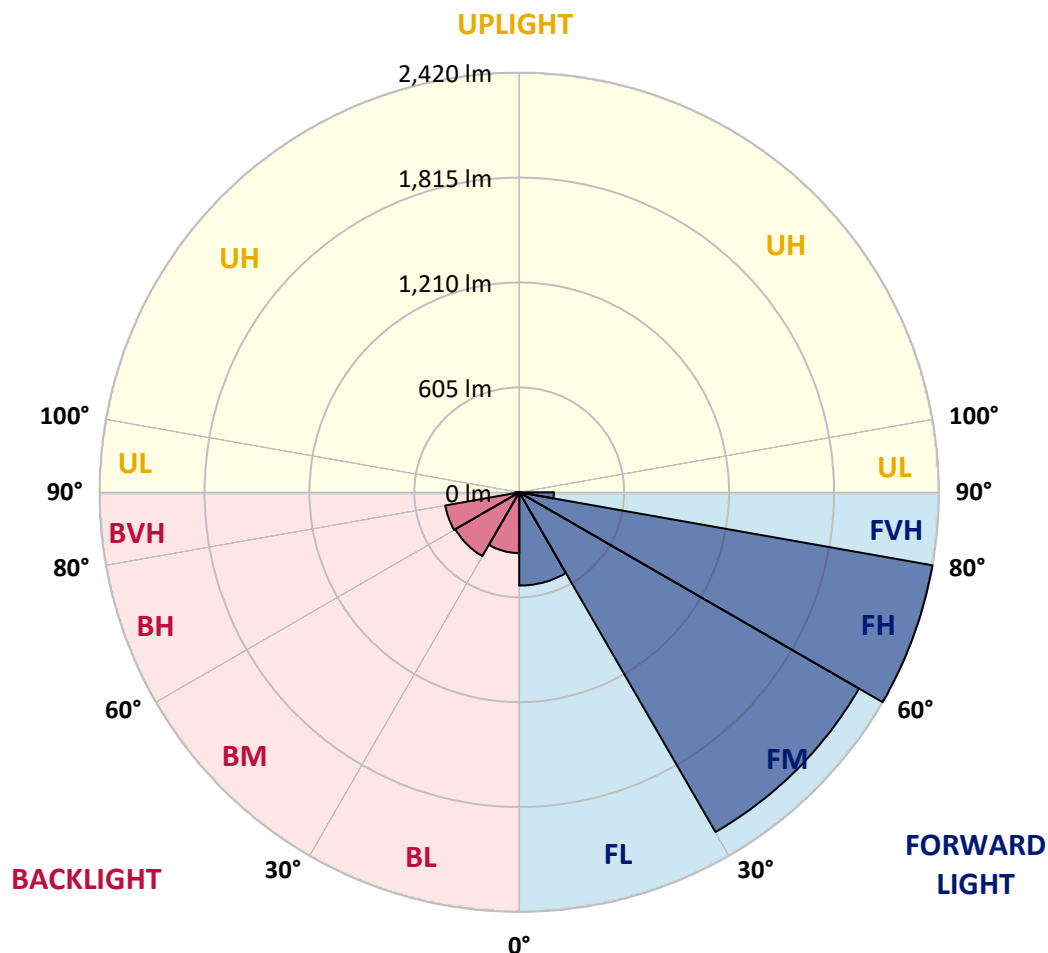
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.2	8.1			
FM	(30°-60°)	2263.0	34.0			
FH	(60°-80°)	2420.5	36.4			G2/5000
FVH	(80°-90°)	200.0	3.0			G2/225
BL	(0°-30°)	350.2	5.3	B1/500		
BM	(30°-60°)	425.5	6.4	B1/1000		
BH	(60°-80°)	433.4	6.5	B1/500		G1/500
BVH	(80°-90°)	24.3	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°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1496.3	1494.0	1500.9	1508.0	1510.7	1515.3	1522.2	1526.1	1525.9	1526.6	1524.3
5°	1397.0	1394.0	1407.8	1419.1	1440.7	1465.0	1494.7	1515.8	1516.3	1528.2	1531.4
7.5°	1303.0	1301.0	1316.8	1335.0	1360.0	1397.2	1445.3	1490.8	1493.5	1525.9	1537.2
10°	1227.7	1227.2	1242.6	1262.4	1291.5	1333.1	1388.3	1454.9	1459.0	1514.9	1538.1
12.5°	1168.8	1169.8	1183.1	1205.6	1236.4	1279.8	1339.6	1414.7	1421.4	1497.4	1532.8
15°	1125.4	1129.1	1139.9	1162.6	1193.0	1237.1	1298.4	1377.5	1387.6	1477.9	1529.8
17.5°	1100.6	1104.7	1112.3	1131.2	1159.7	1202.2	1260.3	1346.9	1356.1	1463.0	1530.0
20°	1093.3	1096.7	1101.1	1112.6	1136.7	1175.3	1230.2	1319.3	1329.2	1451.0	1532.3
22.5°	1107.7	1110.3	1110.7	1109.8	1124.5	1156.0	1208.4	1299.1	1309.7	1443.2	1534.0
25°	1138.7	1142.2	1139.7	1131.2	1126.3	1145.6	1197.1	1285.8	1296.4	1437.4	1530.7
27.5°	1185.4	1185.8	1183.8	1172.8	1150.0	1146.8	1193.7	1278.0	1288.1	1430.8	1524.1
30°	1248.8	1251.8	1248.1	1233.2	1196.0	1165.2	1197.8	1270.4	1279.6	1422.3	1513.3
32.5°	1323.0	1330.4	1330.1	1314.5	1261.2	1206.3	1214.8	1265.8	1272.9	1413.3	1500.2
35°	1400.0	1410.1	1428.9	1422.3	1356.3	1271.3	1247.4	1273.2	1278.0	1412.2	1491.0
37.5°	1480.0	1490.1	1528.9	1546.8	1469.6	1364.4	1298.9	1299.1	1301.4	1426.2	1490.3
40°	1563.6	1574.4	1632.8	1679.4	1616.4	1482.3	1381.8	1353.4	1350.8	1460.7	1503.9
42.5°	1680.8	1690.4	1760.5	1820.0	1779.3	1633.2	1496.5	1437.0	1431.7	1528.2	1547.3
45°	1829.0	1837.3	1911.7	1975.3	1954.4	1805.5	1640.6	1552.1	1551.2	1640.8	1635.3
47.5°	2005.2	2011.6	2078.5	2140.1	2147.7	2003.8	1821.6	1729.7	1714.8	1795.2	1771.5
50°	2188.8	2195.9	2241.4	2307.6	2363.9	2269.2	2054.6	1947.3	1927.3	1999.0	1964.5
52.5°	2310.3	2319.8	2359.3	2443.2	2607.0	2560.1	2330.1	2211.1	2180.8	2246.0	2219.6
55°	2256.1	2277.3	2337.7	2472.1	2801.4	3004.5	2669.9	2518.8	2484.5	2538.7	2523.1
57.5°	2009.6	2038.5	2121.0	2328.5	2828.7	3396.0	3183.7	2881.1	2857.0	2841.4	2848.5
60°	1559.0	1586.8	1689.0	1959.5	2638.2	3681.9	3956.9	3327.8	3292.9	3145.1	3151.5
62.5°	1103.4	1089.3	1159.4	1357.3	2143.8	3715.4	4836.7	3925.2	3810.3	3465.9	3437.6
65°	841.4	838.2	869.7	932.6	1298.4	3314.0	5360.8	4929.3	4749.8	3843.2	3776.5
67.5°	691.4	685.6	716.7	808.3	836.1	2138.0	5372.3	6094.2	5918.0	4312.8	4168.5
70°	568.5	562.0	591.0	709.3	772.7	1084.3	4521.4	6776.4	6767.0	4907.5	4464.5
71°	509.6	505.0	539.7	671.2	759.2	903.7	3903.8	6778.2	6806.5	5108.7	4447.0
72.5°	415.0	416.6	453.3	597.4	749.1	798.0	2869.2	6462.3	6522.1	5300.6	4288.2
75°	275.7	277.1	325.4	459.5	726.3	780.8	1576.9	5422.6	5532.4	5185.7	3913.0
77.5°	185.2	184.7	217.6	315.2	632.8	780.8	924.6	4055.7	4176.3	4126.2	3016.7
80°	127.5	126.6	149.8	217.6	479.1	790.2	714.8	2842.3	2878.8	2228.3	1226.1
82.5°	78.1	78.8	97.9	153.7	326.0	711.1	674.8	1549.8	1510.1	625.0	306.3
85°	44.8	44.6	62.5	104.1	209.3	600.2	658.1	667.0	611.9	188.2	110.7
87.5°	16.1	17.2	33.5	57.7	119.9	418.0	558.3	347.0	312.7	85.0	50.1
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°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1522.7	1524.1	1522.5	1513.3	1505.5	1492.8	1485.7	1475.8	1472.8	1471.5	1475.1
5°	1528.4	1528.9	1515.3	1491.2	1464.1	1432.2	1409.2	1380.9	1367.6	1361.9	1365.5
7.5°	1533.7	1531.7	1502.0	1455.8	1405.7	1350.1	1300.7	1255.5	1229.0	1218.2	1219.2
10°	1534.4	1525.7	1478.1	1406.7	1329.0	1247.4	1171.6	1101.8	1057.6	1028.9	1037.6
12.5°	1527.3	1512.6	1443.0	1343.0	1235.2	1124.0	1021.6	916.8	853.8	824.6	825.6
15°	1521.8	1495.1	1399.8	1268.1	1123.4	976.1	836.1	713.0	645.9	616.0	602.0
17.5°	1517.2	1476.3	1349.7	1183.8	991.2	804.4	636.2	526.4	489.6	480.9	477.2
20°	1510.7	1456.3	1293.8	1086.1	840.7	612.3	464.6	410.4	410.6	420.7	422.1
22.5°	1501.8	1433.5	1234.3	976.5	679.2	446.0	364.2	348.6	364.4	383.7	387.2
25°	1488.5	1406.7	1168.2	855.4	517.9	342.8	311.1	310.4	329.7	349.9	352.9
27.5°	1469.6	1371.5	1094.6	725.4	381.6	291.3	278.7	283.5	297.8	312.5	313.6
30°	1444.3	1330.6	1013.5	588.2	299.2	259.4	258.0	262.4	271.1	281.5	282.4
32.5°	1416.5	1289.0	926.9	455.4	256.2	242.2	243.6	245.6	249.8	253.9	254.8
35°	1391.3	1246.5	838.2	346.0	235.7	230.9	230.0	229.5	230.0	228.6	228.9
37.5°	1375.0	1211.4	745.8	275.5	224.0	221.0	218.3	214.8	210.9	208.6	209.1
40°	1369.0	1185.2	652.3	238.0	214.4	212.3	207.0	199.7	195.1	193.7	193.7
42.5°	1385.1	1171.6	562.0	219.2	206.3	202.9	194.2	185.7	182.2	182.0	181.7
45°	1434.2	1177.1	476.1	208.9	199.0	192.3	180.8	173.7	171.4	171.9	171.6
47.5°	1522.5	1211.8	402.6	202.0	191.6	182.9	170.0	164.3	161.5	161.5	161.8
50°	1672.5	1292.9	344.0	196.2	185.4	174.2	162.2	155.1	151.4	151.2	151.2
52.5°	1891.0	1438.1	307.4	191.4	178.5	166.4	154.4	145.4	141.1	140.2	139.7
55°	2164.9	1646.3	297.3	188.2	169.3	157.9	145.0	136.0	131.2	129.1	128.9
57.5°	2471.2	1899.5	317.3	184.3	159.9	147.7	134.6	126.1	121.1	118.6	118.3
60°	2781.2	2175.9	398.9	178.8	152.1	136.7	124.1	116.3	111.2	108.5	108.0
62.5°	3091.6	2467.3	565.5	178.3	146.6	126.1	113.3	106.6	101.8	98.8	98.1
65°	3441.7	2786.2	754.8	190.5	144.8	116.5	102.2	97.0	92.8	90.1	89.8
67.5°	3843.8	3146.3	736.6	215.5	151.0	107.8	91.9	87.8	84.8	82.5	82.3
70°	4032.5	3090.0	457.9	233.2	159.7	99.3	82.0	79.0	76.7	75.1	74.4
71°	3953.4	2933.9	383.9	231.1	158.8	95.6	78.1	75.8	73.5	72.1	71.5
72.5°	3737.9	2675.7	320.3	215.1	148.4	88.9	73.1	70.8	68.7	67.1	66.6
75°	3354.2	2389.6	256.4	171.9	118.3	75.1	64.1	61.6	60.0	59.1	58.1
77.5°	2465.7	1705.4	198.3	135.8	87.1	61.3	54.7	52.8	51.2	49.9	49.2
80°	944.6	660.6	133.5	101.3	63.9	48.5	44.1	43.2	41.6	40.7	40.7
82.5°	254.4	197.4	71.2	61.3	42.7	35.4	33.8	33.3	31.9	30.1	30.3
85°	102.9	87.1	40.0	33.8	26.2	20.9	22.7	23.0	21.4	19.1	19.3
87.5°	45.3	37.0	22.3	14.9	11.5	8.0	10.3	10.3	9.4	7.8	7.1
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)