

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: P323695

Luminaire Tested: **GAN-SA1D-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5516 lumens
Efficiency: N/A
Efficacy: 82.3 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

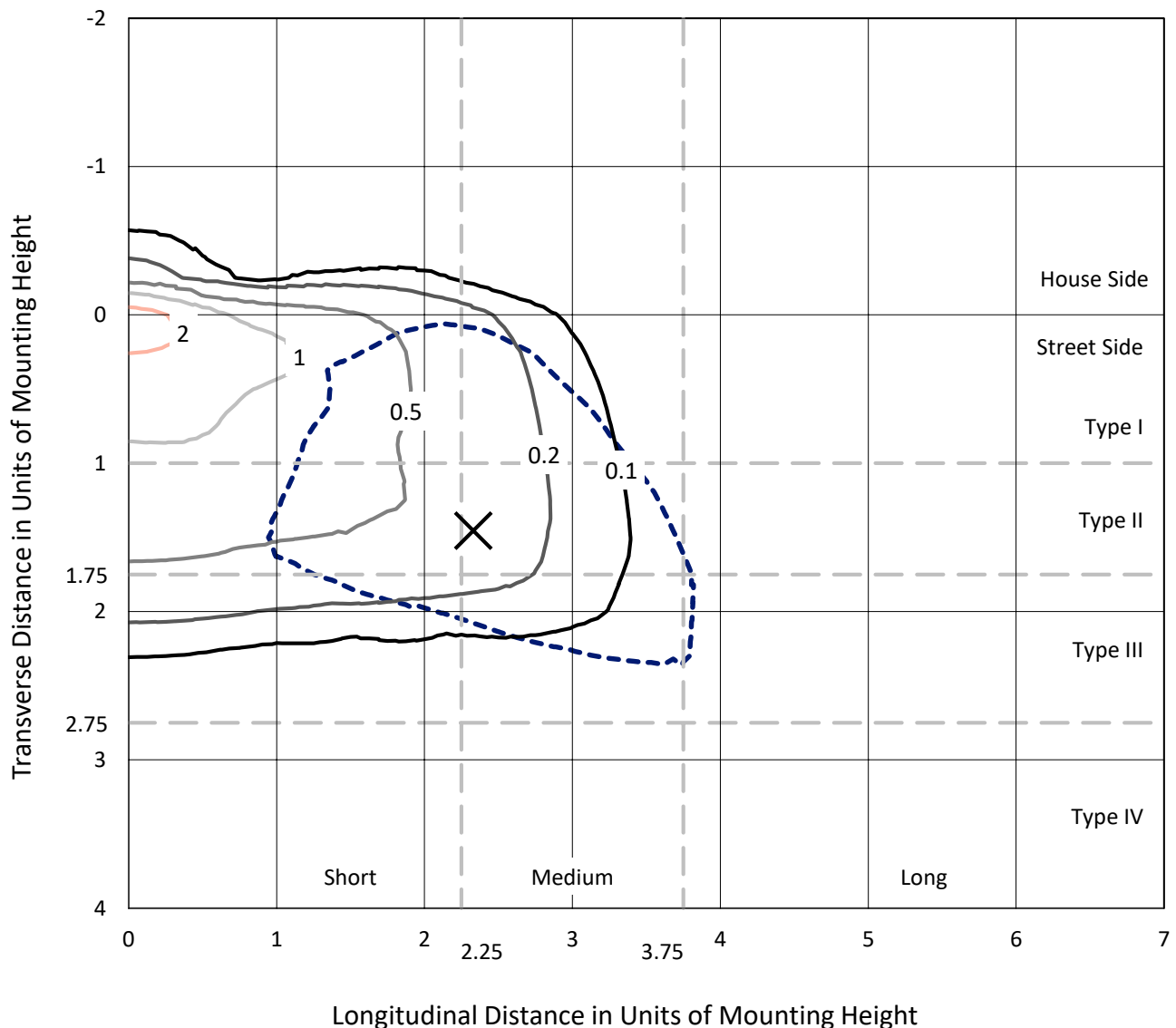
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

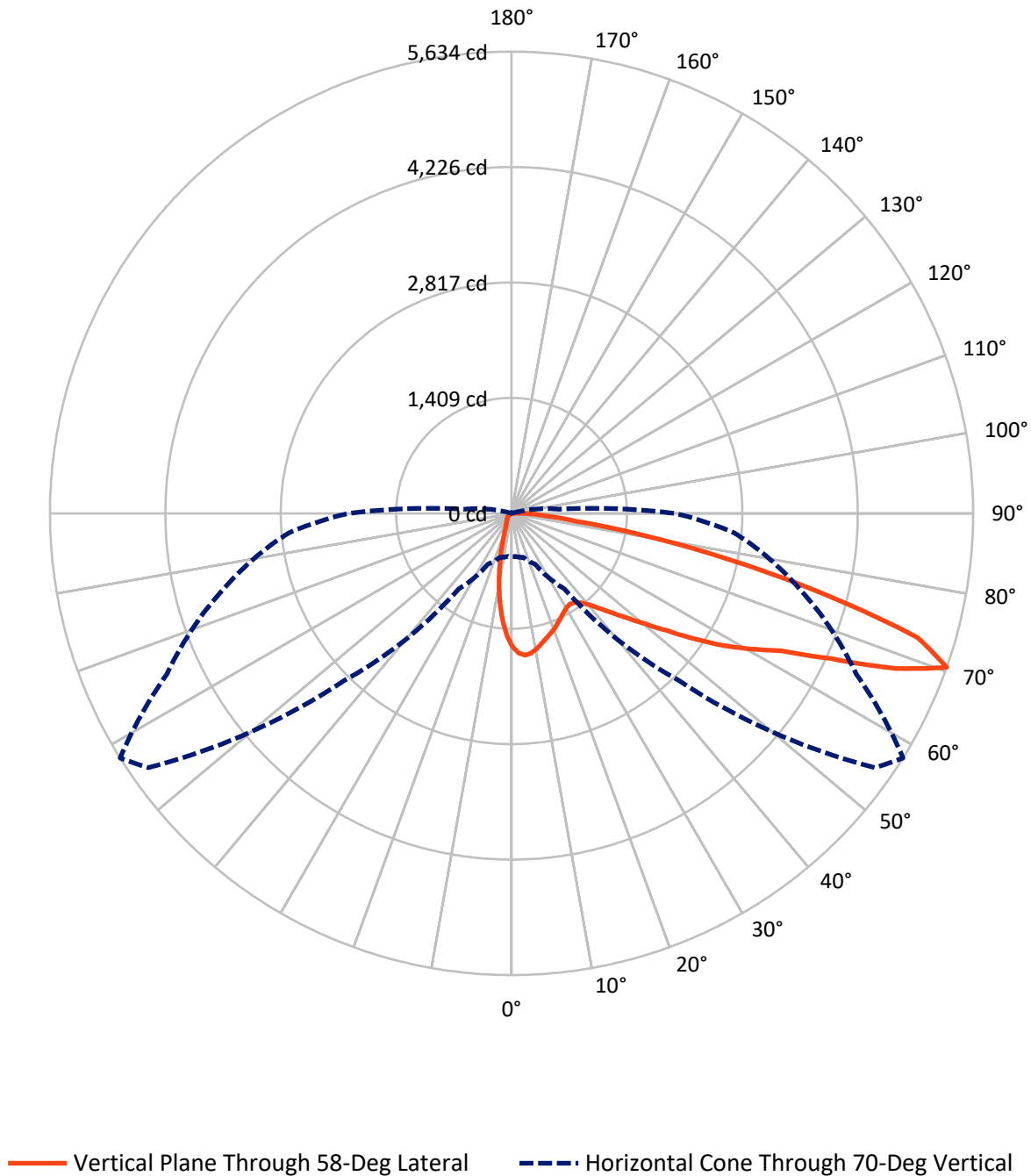
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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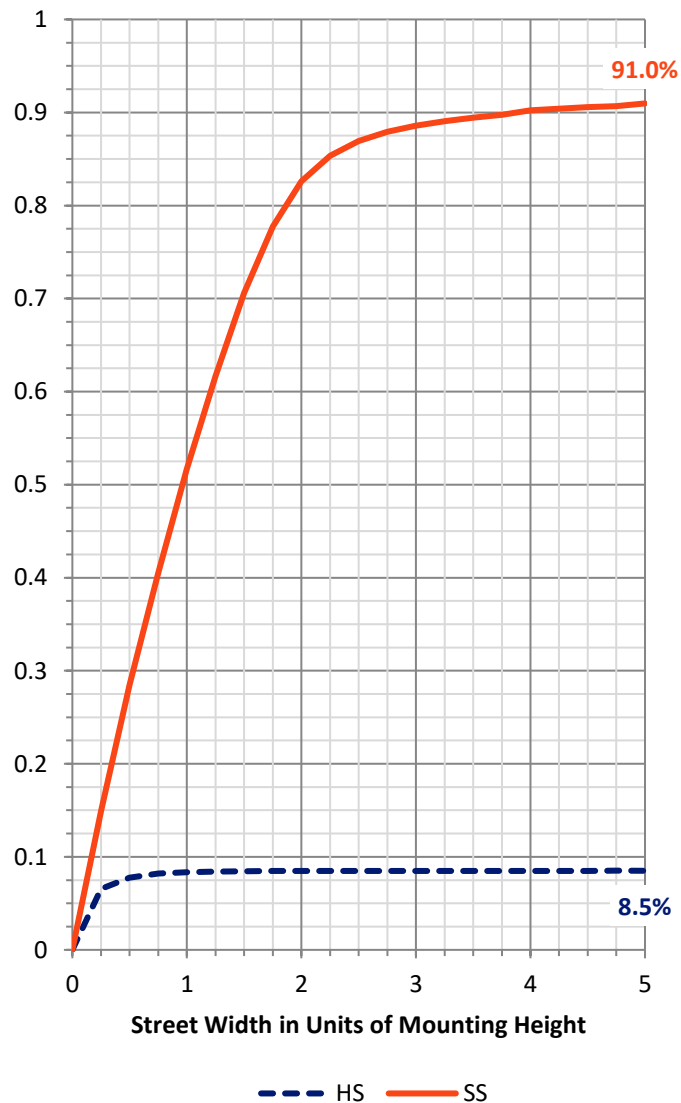
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.0	0.0	472.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	5044.0	0.0	5044.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	5516.0	0.0	5516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	2.4
10°-20°	279.6	5.1
20°-30°	367.6	6.7
30°-40°	486.9	8.8
40°-50°	727.8	13.2
50°-60°	1165.8	21.1
60°-70°	1469.5	26.6
70°-80°	792.7	14.4
80°-90°	92.8	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°	5516.0	100.0
0°-180°	5516.0	100.0

Coefficient of Utilization



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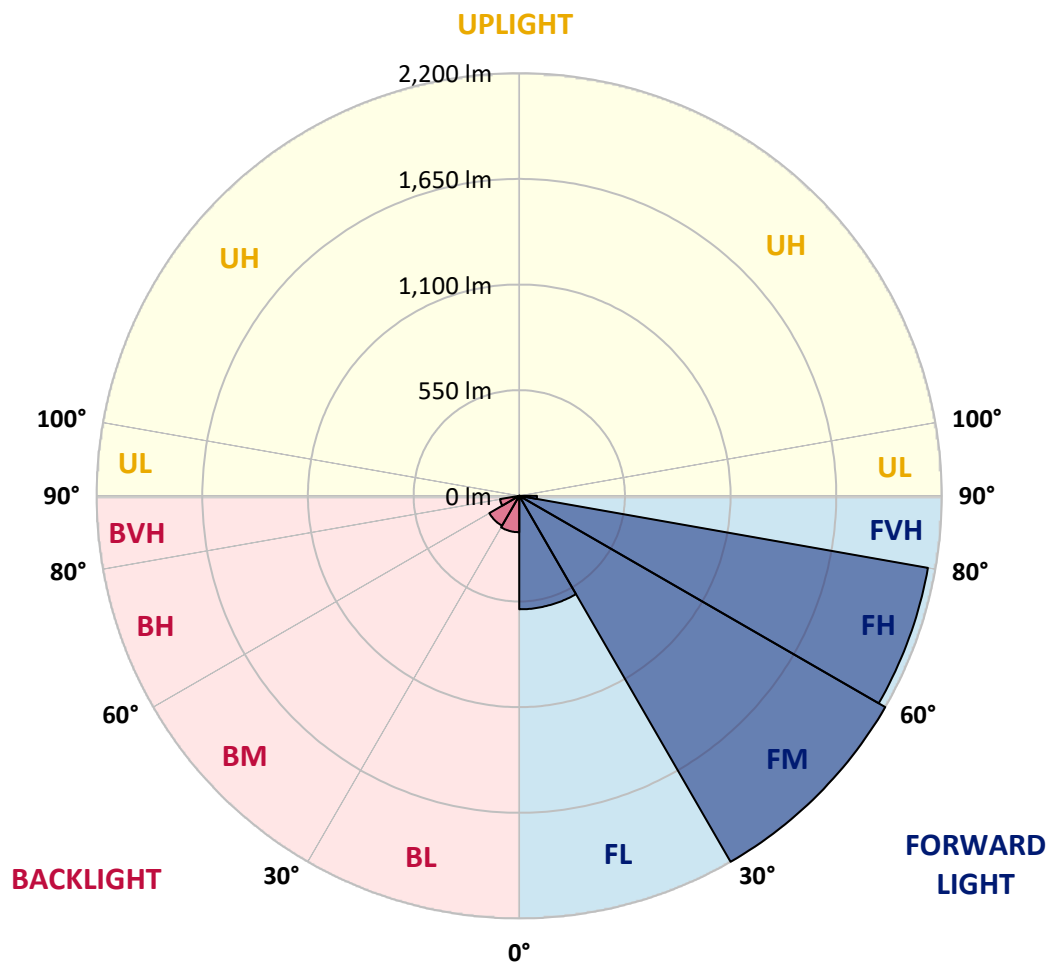
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.9	10.7			
FM	(30°-60°)	2200.4	39.9			
FH	(60°-80°)	2160.7	39.2			G2/5000
FVH	(80°-90°)	92.0	1.7			G1/100
BL	(0°-30°)	189.6	3.4	B1/500		
BM	(30°-60°)	180.1	3.3	B0/220		
BH	(60°-80°)	101.5	1.8	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	58°	65°	75°	85°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1764.5	1760.1	1758.5	1755.8	1745.2	1734.9	1714.5	1708.8	1695.9	1665.4	1633.1
5°	1765.9	1765.6	1770.5	1769.3	1765.6	1760.8	1746.1	1738.6	1716.8	1673.2	1614.0
7.5°	1680.8	1685.1	1695.9	1704.6	1714.7	1727.8	1729.6	1722.3	1704.4	1657.4	1578.9
10°	1566.6	1573.4	1588.6	1605.8	1632.2	1658.3	1681.7	1680.8	1674.6	1628.3	1536.7
12.5°	1452.1	1460.1	1477.6	1503.0	1540.4	1583.1	1624.8	1630.5	1640.9	1602.1	1497.7
15°	1351.9	1358.8	1376.0	1407.1	1453.5	1510.8	1572.1	1582.6	1609.2	1581.7	1465.2
17.5°	1266.8	1271.1	1283.7	1318.4	1372.1	1441.6	1521.1	1541.8	1581.5	1565.6	1437.0
20°	1207.4	1208.1	1216.3	1240.6	1294.3	1372.1	1468.4	1498.0	1552.1	1551.9	1407.8
22.5°	1178.0	1175.7	1177.3	1191.3	1230.8	1305.8	1415.6	1450.7	1525.7	1540.2	1378.2
25°	1172.5	1170.7	1166.1	1167.9	1191.8	1247.7	1362.4	1403.0	1502.6	1533.1	1352.6
27.5°	1189.7	1191.5	1183.7	1175.5	1177.3	1210.1	1315.2	1362.2	1483.8	1533.1	1334.4
30°	1224.3	1225.3	1219.5	1208.7	1194.3	1199.6	1282.4	1329.4	1474.4	1543.6	1323.0
32.5°	1262.6	1267.7	1267.0	1258.3	1237.6	1216.3	1274.6	1317.5	1473.7	1567.0	1321.8
35°	1310.1	1315.9	1325.5	1323.7	1302.1	1267.0	1301.2	1334.9	1487.2	1605.5	1334.2
37.5°	1360.6	1369.3	1389.9	1399.8	1385.8	1346.1	1360.8	1384.9	1523.4	1667.9	1365.6
40°	1409.4	1419.3	1456.9	1495.7	1485.1	1444.3	1451.2	1470.5	1587.9	1757.6	1425.3
42.5°	1457.4	1472.1	1527.3	1591.1	1603.7	1571.1	1574.8	1590.2	1683.5	1881.0	1522.7
45°	1514.7	1531.2	1613.1	1691.8	1725.5	1711.3	1726.9	1737.0	1808.5	2044.1	1654.2
47.5°	1598.9	1617.9	1718.4	1808.1	1867.3	1876.4	1907.8	1914.5	1966.6	2234.0	1825.5
50°	1763.1	1768.4	1859.2	1940.6	2026.0	2081.0	2116.8	2121.8	2157.9	2441.6	2039.5
52.5°	1969.8	1973.2	2024.6	2079.2	2176.2	2288.6	2372.3	2379.4	2387.0	2643.9	2250.7
55°	2175.1	2174.6	2208.5	2240.7	2351.7	2515.0	2696.6	2701.0	2646.6	2835.9	2412.2
57.5°	2303.3	2315.7	2367.3	2408.5	2563.6	2773.0	3025.1	3041.1	2919.3	2978.1	2571.9
60°	2262.4	2268.4	2382.9	2535.6	2827.6	3139.8	3357.4	3361.6	3124.4	3120.0	2773.7
62.5°	1927.6	1930.8	2110.6	2425.5	2961.3	3615.5	3758.4	3691.2	3360.2	3317.1	3015.2
65°	1321.1	1342.0	1492.2	1881.5	2715.7	3913.9	4379.0	4267.8	3719.6	3601.0	3233.6
67.5°	778.0	773.6	848.0	1134.7	1994.5	3715.7	5164.1	5053.6	4209.7	3791.2	3169.6
70°	531.4	528.5	556.9	686.9	1125.9	2882.4	5411.2	5634.3	4642.6	3663.2	2727.8
72.5°	379.4	381.0	422.9	533.7	706.9	1679.4	4653.3	5181.6	4507.0	3193.4	2073.4
75°	257.6	261.9	322.0	437.9	619.7	854.4	3302.2	3938.9	3670.0	2320.9	1191.8
77.5°	138.5	143.4	214.2	352.8	560.3	593.6	2124.1	2710.9	2305.3	1043.4	345.4
80°	57.8	60.6	100.2	256.4	484.2	521.3	1249.8	1643.9	982.4	205.7	77.1
82.5°	25.0	26.4	41.7	153.0	361.9	440.1	661.7	790.8	297.7	45.2	38.8
85°	4.8	5.0	17.2	81.0	231.0	248.4	428.9	420.4	133.7	19.5	28.2
87.5°	0.0	0.0	4.1	25.5	67.9	135.3	261.7	258.5	45.4	9.4	10.6
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°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1616.6	1600.7	1567.5	1526.4	1495.0	1460.4	1432.8	1398.0	1382.8	1383.5	1375.3
5°	1580.3	1547.7	1474.1	1381.2	1309.7	1235.8	1172.3	1109.0	1071.6	1059.4	1048.0
7.5°	1528.5	1476.9	1359.4	1216.3	1095.2	976.9	873.9	783.3	725.9	698.0	687.6
10°	1470.0	1397.5	1227.6	1039.0	866.1	706.0	572.5	456.4	410.1	378.7	370.7
12.5°	1418.6	1320.4	1098.7	857.1	651.9	458.7	331.4	259.2	227.8	215.4	213.3
15°	1370.2	1248.4	974.6	692.4	451.4	282.3	210.8	186.2	178.9	176.8	176.8
17.5°	1324.6	1179.8	853.2	530.3	298.6	197.9	174.5	169.0	166.7	166.5	166.7
20°	1276.9	1111.3	734.0	388.5	208.5	167.7	161.2	158.3	157.6	157.6	157.6
22.5°	1231.2	1042.7	617.9	277.5	167.2	153.0	149.8	147.7	147.0	146.8	146.3
25°	1187.4	977.5	504.6	196.1	146.8	140.1	137.4	134.6	132.6	131.4	130.7
27.5°	1151.4	919.5	399.1	157.3	132.6	126.8	123.4	119.3	114.2	111.9	111.0
30°	1122.7	866.5	307.6	132.8	119.3	113.5	108.3	101.1	93.8	89.9	89.7
32.5°	1100.3	814.5	233.5	117.4	107.3	100.2	92.7	83.7	75.2	70.9	70.6
35°	1089.2	768.6	178.4	106.2	96.8	87.8	78.4	68.6	60.3	56.2	55.7
37.5°	1096.6	729.8	139.2	96.8	87.8	77.5	66.5	56.2	48.9	45.2	45.0
40°	1123.4	705.1	113.1	88.8	80.3	67.7	55.7	46.1	39.9	36.9	36.7
42.5°	1180.5	695.9	96.6	82.1	72.9	58.5	46.3	38.1	32.3	30.3	29.8
45°	1276.0	709.4	85.3	75.7	65.4	49.8	38.3	31.2	26.1	24.5	24.3
47.5°	1403.0	745.0	77.3	69.5	58.5	42.0	31.9	25.2	21.3	19.7	19.5
50°	1566.8	801.4	70.6	63.3	52.1	35.6	26.4	20.0	16.5	15.4	15.4
52.5°	1745.0	868.6	64.7	57.6	45.6	29.6	21.3	15.4	13.1	11.7	11.7
55°	1892.3	927.3	58.3	53.2	37.8	24.5	16.3	11.7	9.6	8.9	8.9
57.5°	2039.3	989.9	50.9	45.6	30.3	20.0	12.4	8.7	7.1	6.7	6.7
60°	2229.9	1066.5	43.8	37.2	23.9	15.1	9.2	6.2	5.3	5.0	5.0
62.5°	2439.5	1111.5	37.4	29.8	18.6	11.2	6.7	4.1	3.9	3.9	3.7
65°	2567.7	1048.0	31.4	23.9	14.4	8.5	4.4	3.0	3.4	3.2	2.8
67.5°	2404.2	820.4	25.7	18.6	11.2	6.4	2.8	2.1	3.7	3.0	2.3
70°	1990.6	574.3	20.0	13.1	8.9	5.5	1.8	1.4	3.9	3.0	1.8
72.5°	1489.7	384.4	15.8	8.7	6.7	4.8	1.6	0.7	3.4	2.5	1.6
75°	814.0	154.8	12.6	5.5	4.1	3.4	1.1	0.5	2.3	1.8	1.1
77.5°	214.2	40.8	9.2	3.7	2.3	1.4	0.7	0.2	1.1	0.9	0.5
80°	54.6	15.8	6.0	2.5	1.6	0.7	0.0	0.0	0.2	0.0	0.0
82.5°	29.1	6.7	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.0	4.4	2.1	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	1.4	0.7	0.0	0.0	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)