

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386332

Luminaire Tested: GAW-SA2A-727-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-727-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6600 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

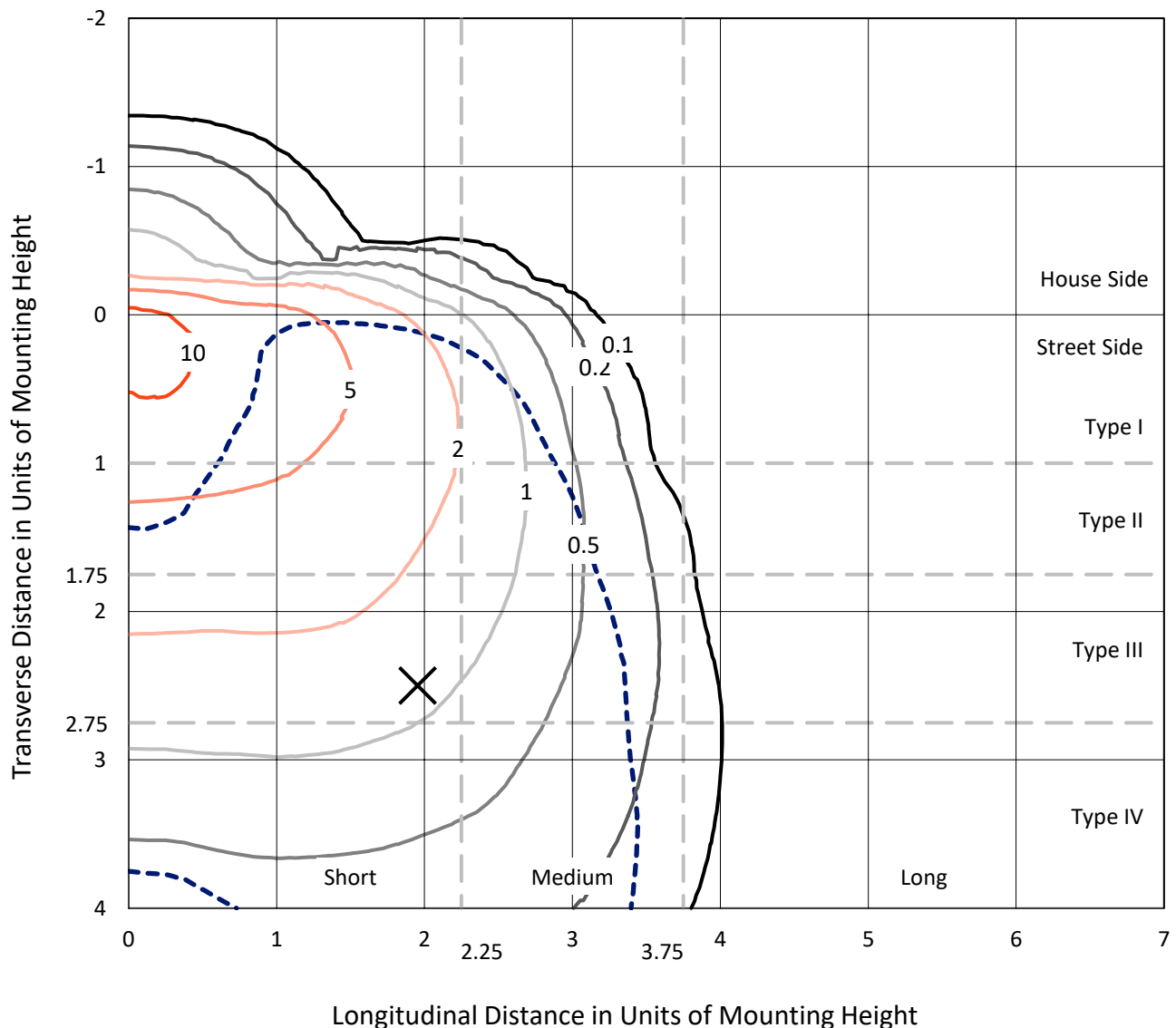
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

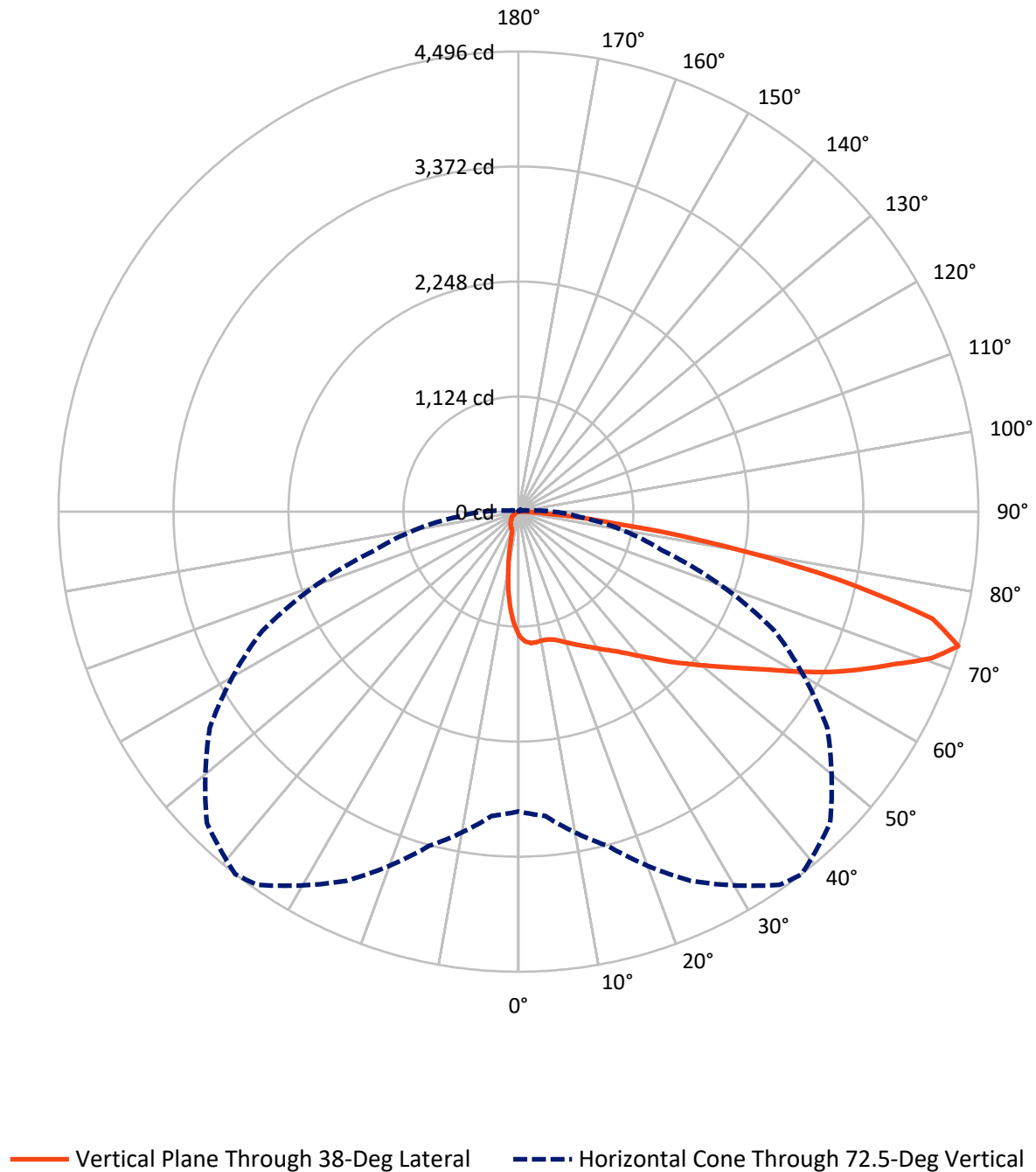
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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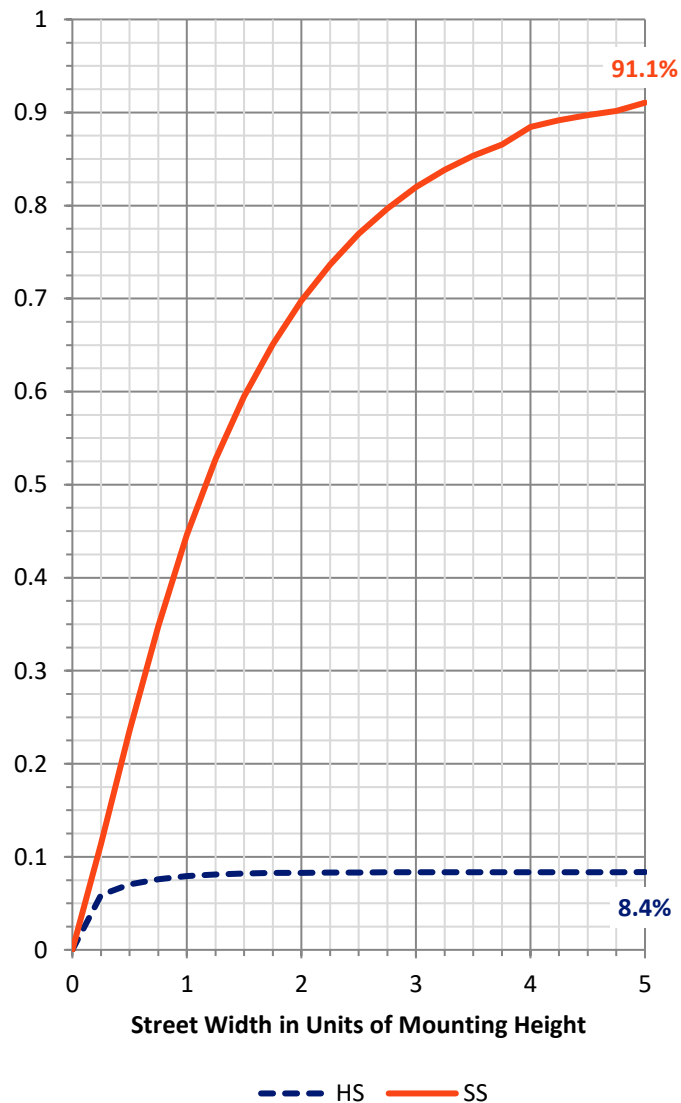
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.4	0.0	555.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6044.6	0.0	6044.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	6600.0	0.0	6600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.6
10°-20°	252.9	3.8
20°-30°	402.3	6.1
30°-40°	604.7	9.2
40°-50°	922.6	14.0
50°-60°	1303.9	19.8
60°-70°	1635.6	24.8
70°-80°	1222.9	18.5
80°-90°	151.6	2.3
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°	6600.0	100.0
0°-180°	6600.0	100.0

Coefficient of Utilization



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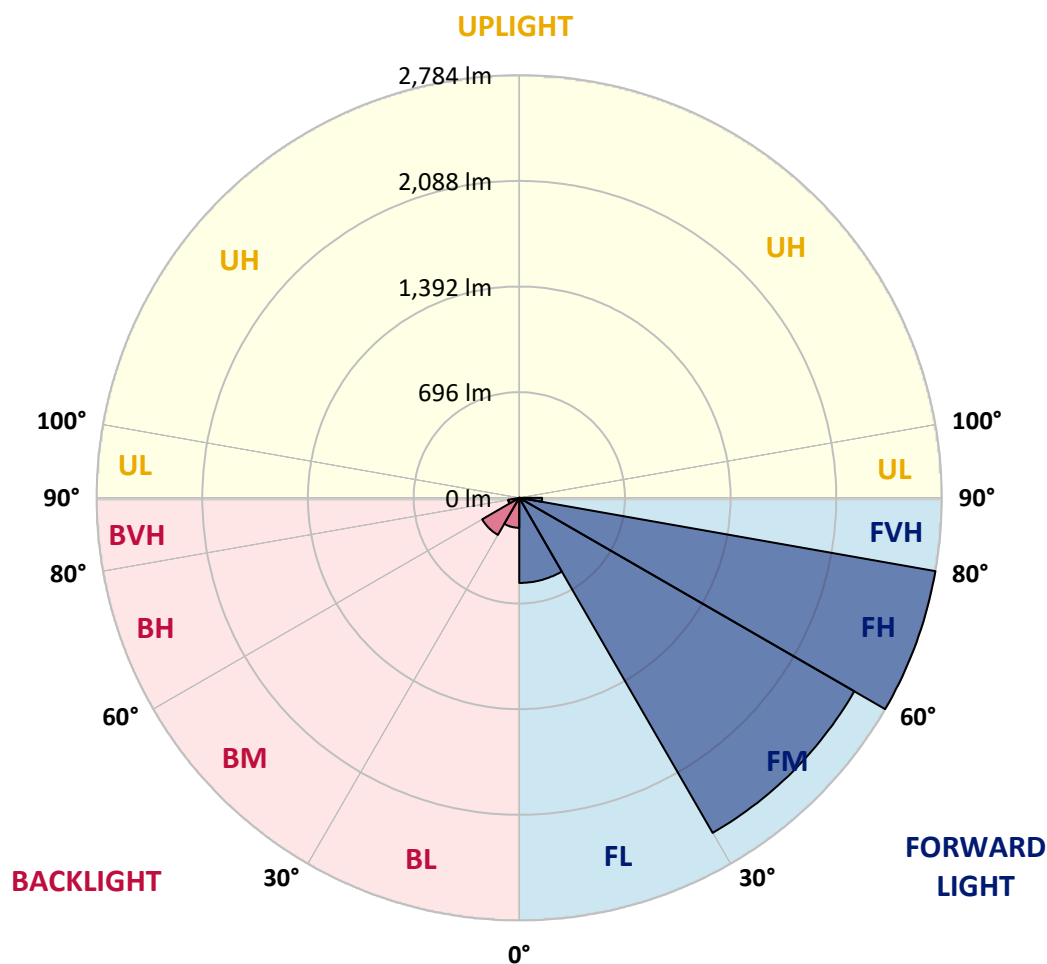
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.8	8.5			
FM	(30°-60°)	2549.2	38.6			
FH	(60°-80°)	2784.3	42.2			G2/5000
FVH	(80°-90°)	150.2	2.3			G2/225
BL	(0°-30°)	197.8	3.0	B1/500		
BM	(30°-60°)	282.0	4.3	B1/1000		
BH	(60°-80°)	74.2	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7
2.5°	1288.3	1288.5	1285.5	1280.6	1274.3	1271.0	1265.5	1256.8	1247.4	1230.7	1212.6
5°	1314.6	1314.6	1310.7	1304.2	1294.0	1291.0	1280.6	1266.6	1247.4	1220.3	1189.9
7.5°	1311.8	1312.4	1307.2	1300.3	1290.2	1287.5	1274.8	1259.2	1235.4	1202.5	1163.6
10°	1297.6	1299.0	1294.9	1291.6	1282.2	1279.2	1267.4	1251.8	1228.0	1192.9	1148.2
12.5°	1283.1	1284.4	1285.8	1288.8	1283.1	1282.0	1272.6	1259.5	1236.7	1200.3	1149.9
15°	1273.7	1276.5	1286.4	1298.1	1299.5	1298.4	1292.4	1280.1	1257.0	1219.2	1161.6
17.5°	1273.7	1278.1	1298.7	1321.2	1329.1	1329.9	1324.7	1307.5	1280.1	1239.5	1172.6
20°	1284.4	1290.5	1322.5	1354.3	1367.5	1367.5	1357.3	1333.2	1301.2	1257.8	1180.0
22.5°	1311.8	1319.8	1360.1	1396.8	1410.8	1407.8	1394.1	1359.0	1323.1	1278.7	1189.3
25°	1365.8	1371.9	1413.8	1450.8	1459.3	1452.5	1435.2	1390.2	1351.0	1306.9	1206.3
27.5°	1435.5	1436.3	1479.6	1510.8	1505.6	1501.0	1479.3	1429.4	1391.3	1347.2	1235.6
30°	1511.9	1511.9	1550.0	1573.9	1558.0	1554.2	1532.5	1476.9	1442.9	1402.0	1277.3
32.5°	1585.9	1589.2	1620.2	1635.3	1617.5	1613.6	1592.5	1536.9	1511.4	1485.6	1342.3
35°	1657.5	1660.0	1689.3	1697.5	1680.5	1681.6	1666.5	1619.4	1609.8	1606.5	1440.1
37.5°	1726.8	1727.4	1757.3	1762.5	1754.0	1763.3	1764.7	1723.0	1740.8	1767.4	1578.0
40°	1790.2	1790.7	1820.3	1833.7	1848.3	1860.3	1871.0	1848.8	1907.7	1969.4	1742.2
42.5°	1840.9	1846.6	1884.2	1909.7	1948.0	1971.1	2000.1	1999.0	2106.5	2199.1	1940.6
45°	1885.5	1895.4	1947.8	1992.4	2058.2	2095.0	2140.5	2176.1	2330.1	2454.8	2141.5
47.5°	1944.5	1953.8	2013.5	2086.7	2174.4	2222.7	2298.1	2375.1	2576.0	2705.9	2337.8
50°	2027.5	2023.4	2082.3	2187.3	2300.0	2363.3	2470.7	2586.1	2819.9	2924.7	2453.2
52.5°	2116.1	2114.4	2158.0	2296.7	2448.0	2522.0	2664.0	2804.3	3053.2	3075.4	2506.1
55°	2225.7	2213.9	2250.6	2421.4	2623.7	2703.2	2870.4	3020.3	3239.0	3160.4	2532.7
57.5°	2340.5	2321.1	2356.2	2560.4	2821.9	2915.9	3099.0	3230.8	3362.7	3218.5	2532.4
60°	2459.2	2436.2	2477.9	2734.2	3068.0	3176.8	3346.8	3373.1	3478.1	3247.8	2513.8
62.5°	2558.5	2544.8	2606.7	2920.0	3342.9	3449.8	3534.0	3502.5	3575.4	3270.6	2470.2
65°	2663.4	2664.3	2764.3	3136.8	3635.1	3707.2	3714.3	3670.2	3656.8	3265.9	2322.7
67.5°	2805.4	2818.6	2985.5	3431.2	3919.4	3975.0	3974.5	3851.9	3716.3	3080.6	1995.7
70°	2955.6	2986.6	3240.4	3768.1	4229.6	4286.1	4257.1	3967.6	3499.2	2491.0	1412.4
72.5°	2930.4	2984.1	3382.1	3980.5	4452.5	4495.5	4306.7	3683.4	2765.7	1447.8	601.4
75°	2260.8	2323.0	3101.2	3770.0	4218.7	4180.0	3700.4	2866.3	1511.4	404.0	135.4
77.5°	1194.3	1227.4	2048.6	2872.0	3289.5	3208.6	2606.7	1590.1	460.8	100.0	60.9
80°	625.5	633.2	892.7	1629.5	2030.3	2030.8	1544.8	698.4	190.0	51.3	40.8
82.5°	335.0	341.5	471.7	753.0	1063.8	964.3	591.5	384.3	110.5	29.1	39.2
85°	80.6	82.0	267.5	344.0	418.3	298.8	175.7	322.6	29.9	17.0	31.8
87.5°	31.0	31.5	99.2	148.8	106.6	69.1	82.2	120.3	3.8	6.6	4.9
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°	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7
2.5°	1201.7	1194.5	1177.0	1154.8	1135.1	1120.8	1099.4	1085.4	1076.1	1075.8	1072.3
5°	1171.2	1156.7	1118.9	1073.9	1033.1	996.4	953.0	918.8	893.3	889.2	880.4
7.5°	1138.6	1114.8	1056.7	986.5	918.0	848.3	767.5	717.3	674.3	653.7	651.5
10°	1118.6	1085.2	1002.7	901.2	793.8	680.6	574.8	501.6	448.7	433.6	422.4
12.5°	1114.5	1070.4	961.0	821.2	667.7	518.1	401.0	323.2	281.0	267.5	264.0
15°	1118.6	1063.5	925.9	742.0	540.0	367.6	269.2	223.9	208.0	204.2	203.9
17.5°	1121.1	1055.3	886.2	654.0	416.1	262.6	206.1	193.0	190.5	190.2	190.8
20°	1120.8	1042.7	838.7	555.9	309.5	206.4	186.4	183.6	183.1	183.4	183.1
22.5°	1118.9	1027.9	786.7	454.7	233.8	184.5	177.9	176.2	176.0	176.0	176.0
25°	1122.4	1016.1	729.4	358.0	192.7	174.3	170.2	168.8	168.6	168.6	168.0
27.5°	1135.3	1009.5	666.6	275.5	174.1	165.3	162.0	161.7	160.9	160.6	161.2
30°	1156.2	1009.5	597.8	214.3	162.8	156.0	153.5	152.9	152.7	152.4	152.7
32.5°	1192.9	1017.2	522.7	178.2	152.1	145.5	143.9	144.7	143.9	143.9	143.9
35°	1259.2	1040.2	444.0	155.4	140.9	135.4	133.8	134.9	134.3	134.3	134.0
37.5°	1356.0	1083.0	364.8	141.7	131.0	125.3	123.1	124.7	124.2	124.2	123.9
40°	1473.8	1145.2	289.5	131.3	121.4	115.4	113.5	114.3	112.9	112.9	113.5
42.5°	1619.4	1224.1	223.7	121.2	111.8	106.1	105.0	104.2	101.7	100.3	100.6
45°	1781.1	1306.4	174.3	111.3	102.8	98.1	96.5	94.3	90.2	87.4	87.7
47.5°	1925.6	1369.7	141.7	101.7	94.6	91.0	88.5	84.4	78.4	75.1	75.4
50°	2001.5	1379.3	120.6	92.1	86.9	83.3	79.8	73.5	66.3	62.8	62.5
52.5°	2020.9	1334.3	105.0	83.3	79.2	75.1	70.4	61.9	54.0	50.2	49.6
55°	2028.1	1265.8	91.0	75.1	71.0	66.3	60.3	50.7	43.3	39.5	39.2
57.5°	2004.5	1163.6	80.0	67.7	62.8	57.0	49.6	40.6	33.4	30.4	30.4
60°	1952.1	1025.1	71.5	59.8	54.3	47.7	40.0	31.5	24.9	22.5	22.5
62.5°	1847.7	845.9	63.6	51.5	46.3	39.5	32.3	23.8	17.5	16.2	16.4
65°	1650.6	641.7	55.6	44.1	39.5	32.6	25.2	17.0	11.8	11.8	12.3
67.5°	1346.1	445.7	47.4	37.6	34.0	26.6	19.2	11.8	8.2	9.3	10.4
70°	891.1	250.0	40.6	31.0	29.1	21.1	14.3	7.9	6.6	8.8	10.7
72.5°	336.3	97.3	34.0	24.9	25.2	16.2	10.1	6.0	6.0	9.6	12.6
75°	93.7	47.7	24.4	18.4	19.7	11.8	7.4	5.2	5.8	11.0	14.8
77.5°	55.1	35.1	15.9	10.7	13.4	8.2	4.9	4.1	4.9	9.3	14.3
80°	44.4	18.6	9.3	5.5	7.4	4.7	3.3	2.5	1.4	3.6	7.4
82.5°	44.4	11.2	4.4	3.8	3.8	2.5	1.6	1.1	0.3	0.0	1.9
85°	29.9	4.7	2.7	2.5	1.9	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.9	1.9	1.1	0.5	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)