

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: P386136

Luminaire Tested: GAW-SA1D-730-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386136
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-SA1D-730-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6125 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

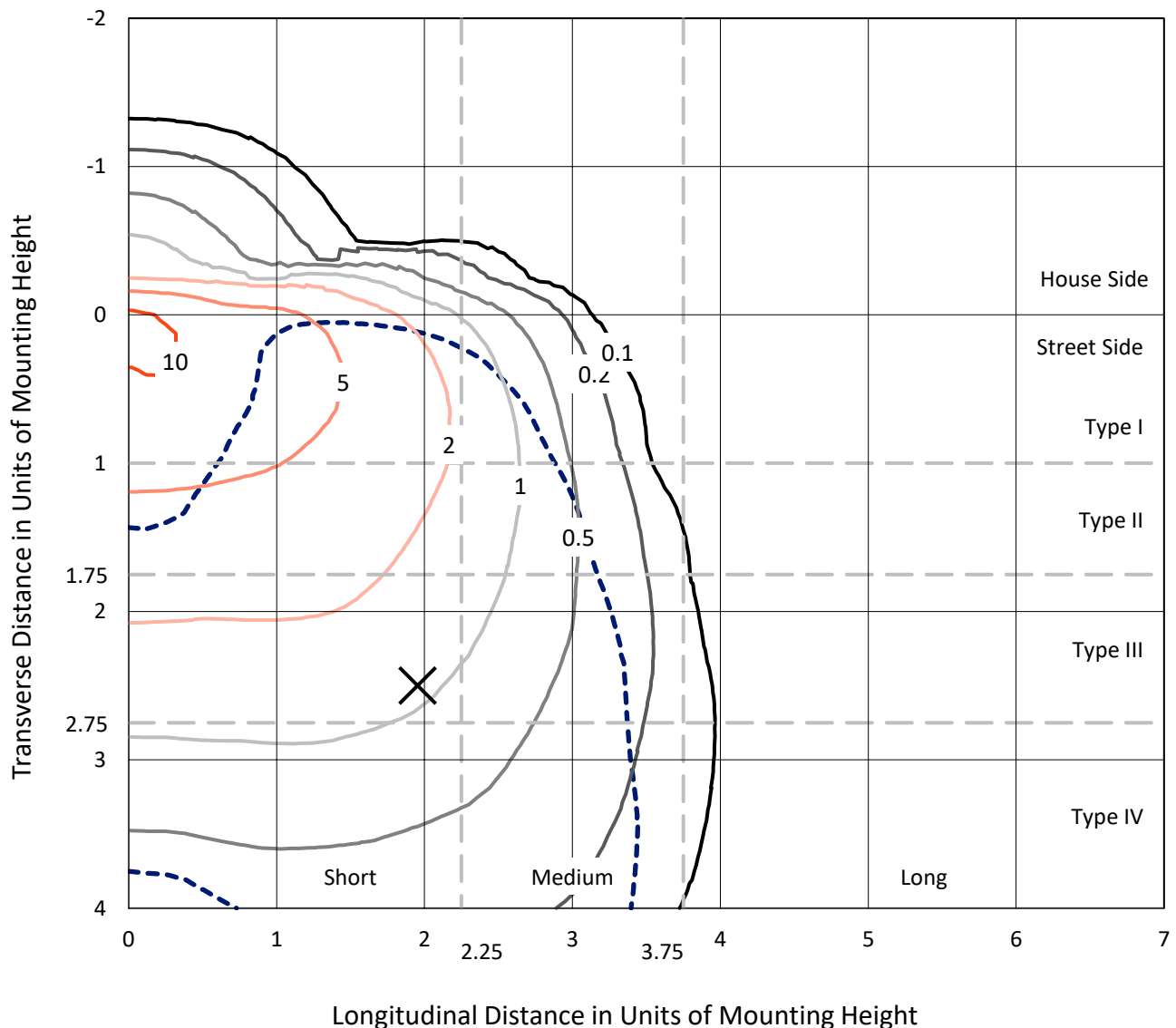
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

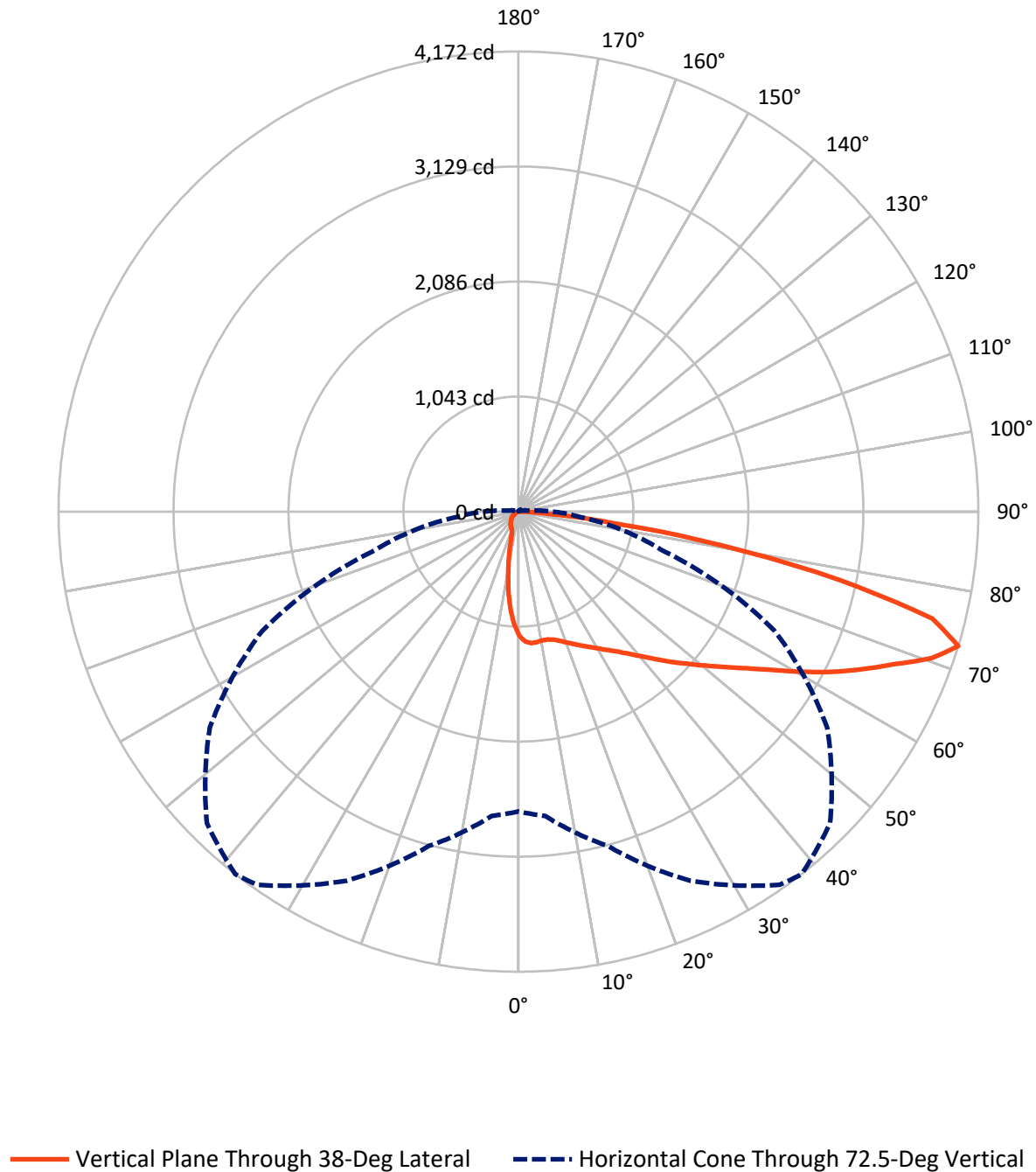
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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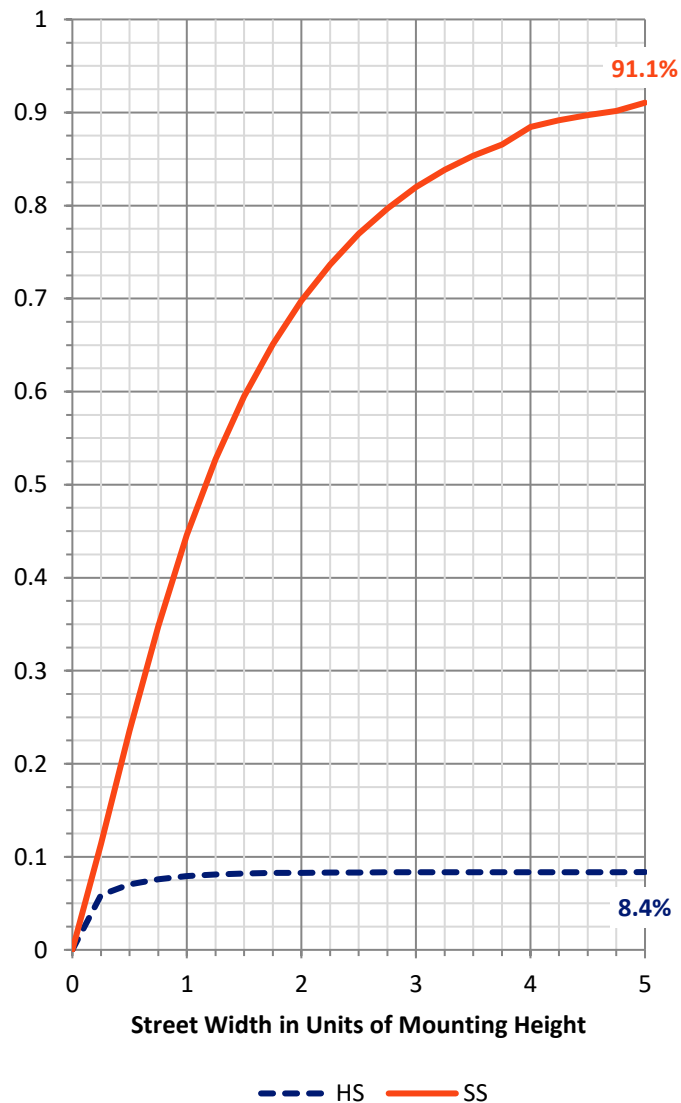
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.4	0.0	515.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5609.6	0.0	5609.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	6125.0	0.0	6125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.6
10°-20°	234.7	3.8
20°-30°	373.3	6.1
30°-40°	561.2	9.2
40°-50°	856.2	14.0
50°-60°	1210.1	19.8
60°-70°	1517.8	24.8
70°-80°	1134.9	18.5
80°-90°	140.7	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°	6125.0	100.0
0°-180°	6125.0	100.0

Coefficient of Utilization



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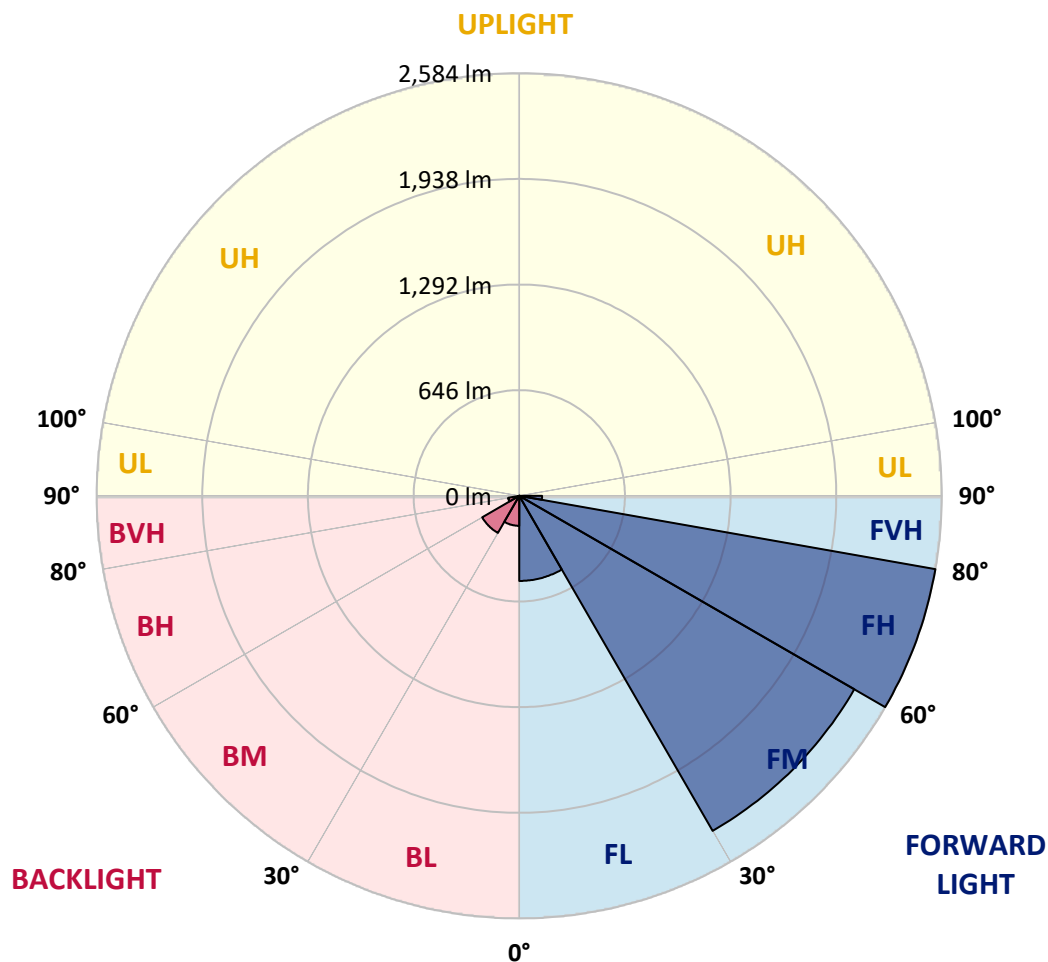
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.5	8.5			
FM	(30°-60°)	2365.7	38.6			
FH	(60°-80°)	2583.9	42.2			G2/5000
FVH	(80°-90°)	139.4	2.3			G2/225
BL	(0°-30°)	183.5	3.0	B1/500		
BM	(30°-60°)	261.7	4.3	B1/1000		
BH	(60°-80°)	68.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1195.6	1195.8	1193.0	1188.4	1182.6	1179.5	1174.4	1166.3	1157.7	1142.1	1125.3
5°	1220.0	1220.0	1216.4	1210.3	1200.9	1198.1	1188.4	1175.5	1157.7	1132.5	1104.2
7.5°	1217.4	1217.9	1213.1	1206.7	1197.3	1194.8	1183.1	1168.6	1146.5	1115.9	1079.8
10°	1204.2	1205.5	1201.7	1198.6	1190.0	1187.2	1176.2	1161.7	1139.6	1107.0	1065.6
12.5°	1190.7	1192.0	1193.3	1196.1	1190.7	1189.7	1181.1	1168.8	1147.7	1113.9	1067.1
15°	1182.1	1184.6	1193.8	1204.7	1206.0	1205.0	1199.4	1187.9	1166.6	1131.5	1078.0
17.5°	1182.1	1186.1	1205.2	1226.1	1233.5	1234.2	1229.4	1213.4	1187.9	1150.3	1088.2
20°	1192.0	1197.6	1227.4	1256.9	1269.1	1269.1	1259.7	1237.3	1207.5	1167.3	1095.1
22.5°	1217.4	1224.8	1262.2	1296.3	1309.3	1306.5	1293.7	1261.2	1227.9	1186.7	1103.7
25°	1267.5	1273.1	1312.1	1346.4	1354.3	1347.9	1331.9	1290.2	1253.8	1212.9	1119.5
27.5°	1332.2	1332.9	1373.1	1402.1	1397.3	1393.0	1372.9	1326.6	1291.2	1250.2	1146.7
30°	1403.1	1403.1	1438.5	1460.6	1445.9	1442.3	1422.2	1370.6	1339.0	1301.1	1185.4
32.5°	1471.8	1474.9	1503.6	1517.6	1501.1	1497.5	1477.9	1426.3	1402.6	1378.7	1245.7
35°	1538.2	1540.5	1567.7	1575.3	1559.6	1560.6	1546.6	1502.8	1493.9	1490.9	1336.5
37.5°	1602.6	1603.1	1630.8	1635.6	1627.7	1636.4	1637.7	1599.0	1615.5	1640.2	1464.4
40°	1661.3	1661.8	1689.3	1701.8	1715.2	1726.4	1736.4	1715.8	1770.4	1827.7	1616.8
42.5°	1708.4	1713.7	1748.6	1772.2	1807.8	1829.2	1856.2	1855.1	1954.9	2040.8	1801.0
45°	1749.8	1759.0	1807.6	1849.0	1910.1	1944.2	1986.4	2019.5	2162.4	2278.2	1987.4
47.5°	1804.5	1813.2	1868.6	1936.5	2017.9	2062.7	2132.7	2204.1	2390.6	2511.2	2169.6
50°	1881.6	1877.8	1932.5	2029.9	2134.5	2193.2	2292.9	2400.0	2617.0	2714.2	2276.6
52.5°	1963.8	1962.2	2002.7	2131.4	2271.8	2340.5	2472.3	2602.5	2833.5	2854.1	2325.7
55°	2065.5	2054.6	2088.7	2247.1	2434.9	2508.6	2663.8	2802.9	3005.9	2932.9	2350.4
57.5°	2172.1	2154.0	2186.6	2376.1	2618.8	2706.0	2876.0	2998.3	3120.7	2986.9	2350.2
60°	2282.2	2260.9	2299.5	2537.4	2847.2	2948.2	3105.9	3130.3	3227.7	3014.1	2332.9
62.5°	2374.3	2361.6	2419.1	2709.8	3102.3	3201.5	3279.6	3250.4	3318.1	3035.2	2292.4
65°	2471.8	2472.5	2565.4	2911.1	3373.5	3440.4	3447.0	3406.1	3393.6	3030.9	2155.6
67.5°	2603.5	2615.7	2770.6	3184.3	3637.3	3688.9	3688.4	3574.7	3448.8	2858.9	1852.1
70°	2742.9	2771.7	3007.2	3496.9	3925.2	3977.6	3950.7	3682.1	3247.3	2311.7	1310.8
72.5°	2719.5	2769.4	3138.7	3694.0	4132.0	4172.0	3996.7	3418.3	2566.6	1343.6	558.1
75°	2098.1	2155.8	2878.0	3498.7	3915.1	3879.2	3434.0	2660.0	1402.6	374.9	125.7
77.5°	1108.3	1139.1	1901.2	2665.3	3052.7	2977.7	2419.1	1475.6	427.6	92.8	56.5
80°	580.5	587.6	828.5	1512.3	1884.1	1884.7	1433.7	648.1	176.3	47.6	37.9
82.5°	310.8	316.9	437.8	698.8	987.2	894.9	548.9	356.6	102.5	27.0	36.4
85°	74.8	76.1	248.3	319.2	388.2	277.3	163.1	299.4	27.7	15.8	29.5
87.5°	28.7	29.3	92.1	138.1	99.0	64.1	76.3	111.7	3.6	6.1	4.6
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°	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1115.2	1108.6	1092.3	1071.7	1053.4	1040.1	1020.3	1007.3	998.7	998.4	995.1
5°	1086.9	1073.5	1038.4	996.6	958.7	924.6	884.5	852.7	829.0	825.2	817.0
7.5°	1056.7	1034.5	980.6	915.5	851.9	787.3	712.2	665.7	625.8	606.7	604.6
10°	1038.1	1007.1	930.5	836.4	736.7	631.6	533.4	465.5	416.4	402.4	392.0
12.5°	1034.3	993.3	891.8	762.1	619.7	480.8	372.1	299.9	260.7	248.3	245.0
15°	1038.1	987.0	859.3	688.6	501.1	341.1	249.8	207.8	193.1	189.5	189.3
17.5°	1040.4	979.3	822.4	606.9	386.1	243.7	191.3	179.1	176.8	176.5	177.0
20°	1040.1	967.6	778.4	515.9	287.2	191.5	173.0	170.4	169.9	170.2	169.9
22.5°	1038.4	953.9	730.1	422.0	217.0	171.2	165.1	163.6	163.3	163.3	163.3
25°	1041.7	943.0	676.9	332.2	178.8	161.8	158.0	156.7	156.4	156.4	155.9
27.5°	1053.6	936.9	618.6	255.6	161.5	153.4	150.3	150.1	149.3	149.1	149.6
30°	1072.9	936.9	554.8	198.9	151.1	144.7	142.4	141.9	141.7	141.4	141.7
32.5°	1107.0	944.0	485.1	165.3	141.2	135.1	133.5	134.3	133.5	133.5	133.5
35°	1168.6	965.3	412.1	144.2	130.7	125.7	124.1	125.2	124.6	124.6	124.4
37.5°	1258.4	1005.0	338.6	131.5	121.6	116.2	114.2	115.7	115.2	115.2	115.0
40°	1367.8	1062.8	268.6	121.8	112.7	107.1	105.3	106.1	104.8	104.8	105.3
42.5°	1502.8	1136.0	207.6	112.4	103.8	98.4	97.4	96.7	94.4	93.1	93.4
45°	1652.9	1212.3	161.8	103.3	95.4	91.1	89.5	87.5	83.7	81.1	81.4
47.5°	1787.0	1271.1	131.5	94.4	87.8	84.5	82.2	78.3	72.8	69.7	70.0
50°	1857.4	1280.0	111.9	85.5	80.6	77.3	74.0	68.2	61.6	58.3	58.0
52.5°	1875.5	1238.3	97.4	77.3	73.5	69.7	65.4	57.5	50.1	46.6	46.0
55°	1882.1	1174.7	84.5	69.7	65.9	61.6	56.0	47.1	40.2	36.6	36.4
57.5°	1860.2	1079.8	74.3	62.8	58.3	52.9	46.0	37.6	31.0	28.2	28.2
60°	1811.7	951.4	66.4	55.5	50.4	44.3	37.1	29.3	23.1	20.9	20.9
62.5°	1714.7	785.0	59.0	47.8	43.0	36.6	30.0	22.1	16.3	15.0	15.3
65°	1531.8	595.5	51.6	41.0	36.6	30.3	23.4	15.8	10.9	10.9	11.4
67.5°	1249.2	413.6	44.0	34.8	31.5	24.7	17.8	10.9	7.6	8.6	9.7
70°	827.0	232.0	37.6	28.7	27.0	19.6	13.2	7.4	6.1	8.1	9.9
72.5°	312.1	90.3	31.5	23.1	23.4	15.0	9.4	5.6	5.6	8.9	11.7
75°	87.0	44.3	22.6	17.0	18.3	10.9	6.9	4.8	5.3	10.2	13.7
77.5°	51.1	32.6	14.8	9.9	12.5	7.6	4.6	3.8	4.6	8.6	13.2
80°	41.2	17.3	8.6	5.1	6.9	4.3	3.1	2.3	1.3	3.3	6.9
82.5°	41.2	10.4	4.1	3.6	3.6	2.3	1.5	1.0	0.3	0.0	1.8
85°	27.7	4.3	2.5	2.3	1.8	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.6	1.8	1.0	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)