

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: P386556

Luminaire Tested: GAW-SA2B-727-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386556
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-SA2B-727-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 8096 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

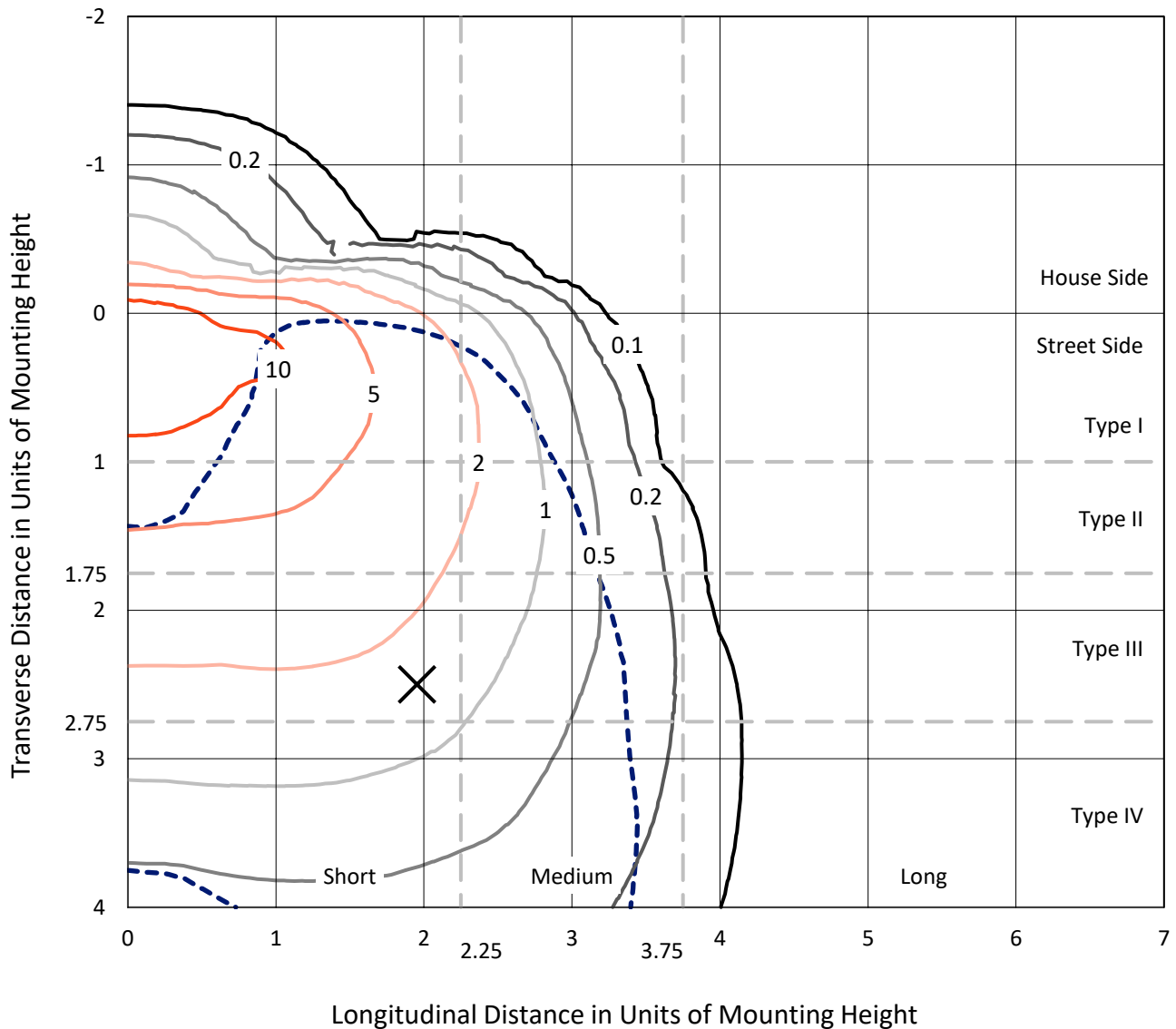
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

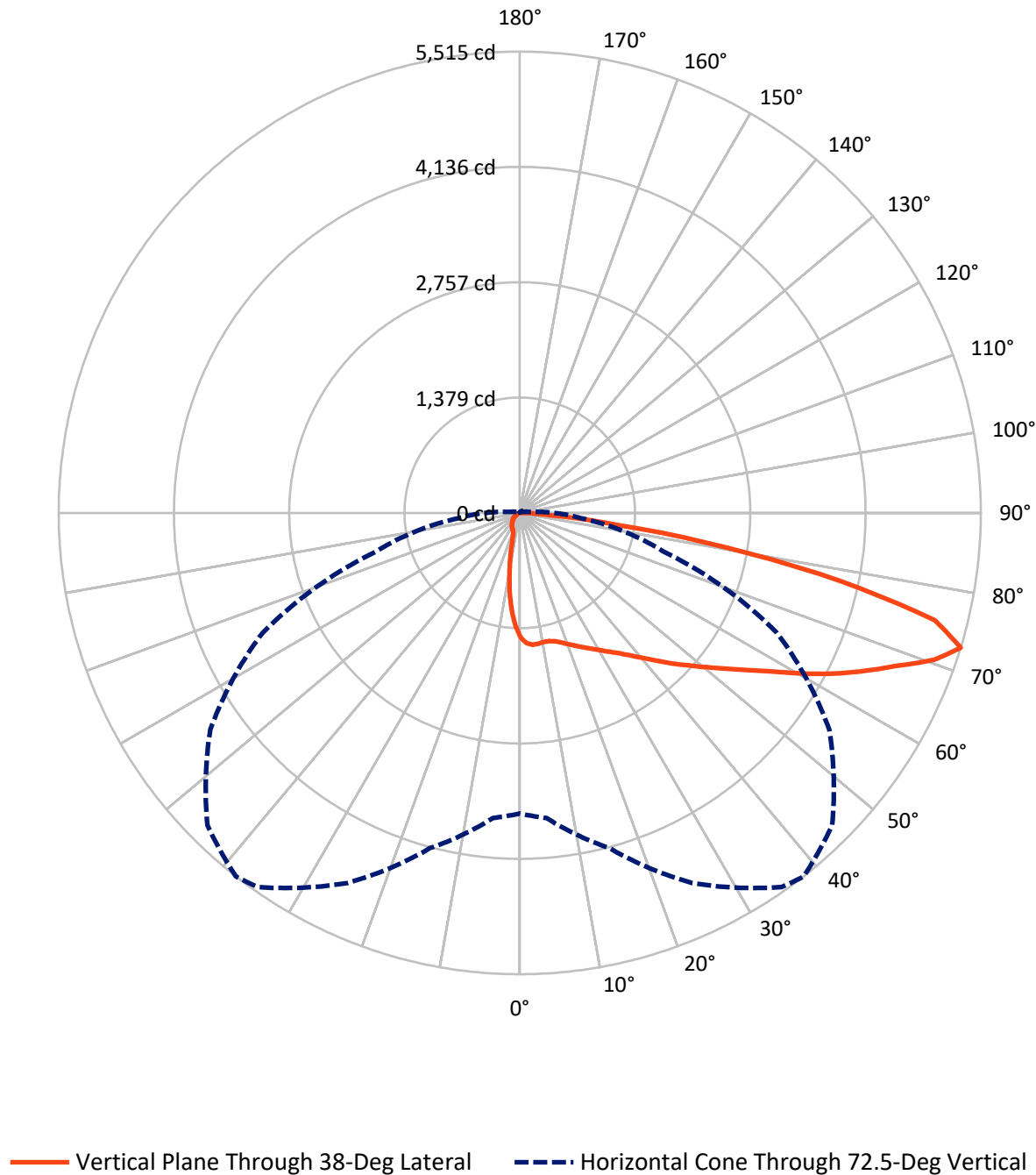
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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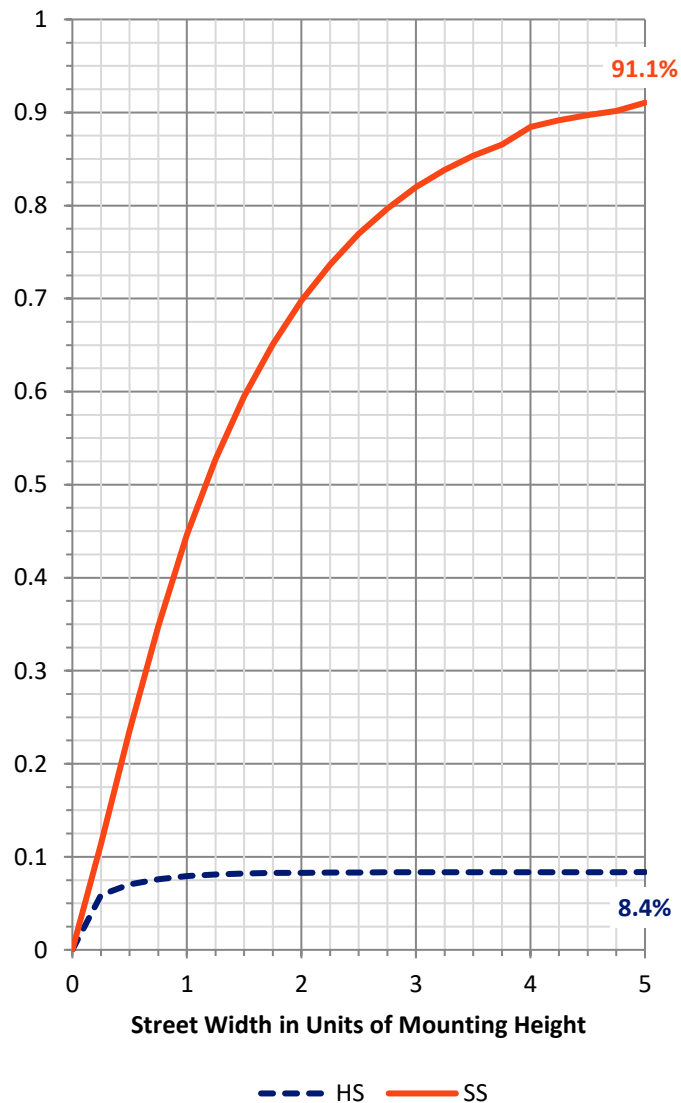
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.3	0.0	681.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7414.7	0.0	7414.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	8096.0	0.0	8096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.6
10°-20°	310.2	3.8
20°-30°	493.4	6.1
30°-40°	741.8	9.2
40°-50°	1131.7	14.0
50°-60°	1599.5	19.8
60°-70°	2006.3	24.8
70°-80°	1500.1	18.5
80°-90°	186.0	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°	8096.0	100.0
0°-180°	8096.0	100.0

Coefficient of Utilization



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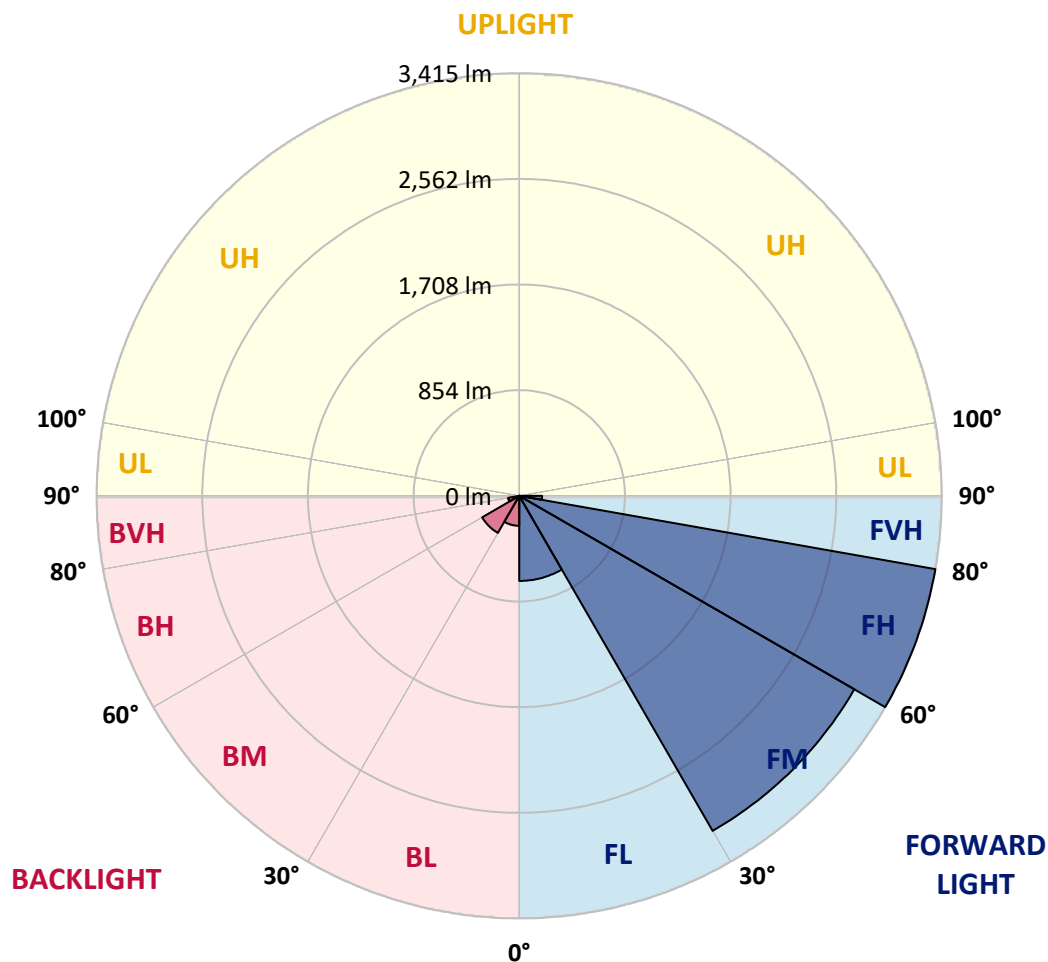
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.0	8.5			
FM	(30°-60°)	3127.0	38.6			
FH	(60°-80°)	3415.4	42.2			G2/5000
FVH	(80°-90°)	184.3	2.3			G2/225
BL	(0°-30°)	242.6	3.0	B1/500		
BM	(30°-60°)	346.0	4.3	B1/1000		
BH	(60°-80°)	91.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1580.3	1580.6	1576.9	1570.9	1563.1	1559.1	1552.4	1541.6	1530.2	1509.7	1487.5
5°	1612.6	1612.6	1607.9	1599.8	1587.3	1583.6	1570.9	1553.7	1530.2	1496.9	1459.6
7.5°	1609.2	1609.9	1603.5	1595.1	1582.6	1579.3	1563.8	1544.6	1515.4	1475.0	1427.3
10°	1591.7	1593.4	1588.4	1584.3	1572.9	1569.2	1554.7	1535.6	1506.3	1463.3	1408.5
12.5°	1573.9	1575.6	1577.3	1581.0	1573.9	1572.5	1561.1	1545.0	1517.1	1472.4	1410.5
15°	1562.5	1565.8	1577.9	1592.4	1594.1	1592.7	1585.3	1570.2	1542.0	1495.6	1424.9
17.5°	1562.5	1567.8	1593.1	1620.6	1630.4	1631.4	1625.0	1603.8	1570.2	1520.4	1438.4
20°	1575.6	1583.0	1622.3	1661.3	1677.5	1677.5	1665.0	1635.4	1596.1	1543.0	1447.5
22.5°	1609.2	1618.9	1668.4	1713.4	1730.6	1726.9	1710.1	1667.0	1623.0	1568.5	1458.9
25°	1675.4	1682.8	1734.3	1779.7	1790.1	1781.7	1760.5	1705.4	1657.3	1603.1	1479.7
27.5°	1760.8	1761.8	1815.0	1853.3	1846.9	1841.2	1814.6	1753.4	1706.7	1652.6	1515.7
30°	1854.6	1854.6	1901.4	1930.6	1911.1	1906.4	1879.9	1811.6	1769.9	1719.8	1566.8
32.5°	1945.4	1949.5	1987.5	2005.9	1984.1	1979.4	1953.5	1885.2	1854.0	1822.4	1646.5
35°	2033.2	2036.2	2072.2	2082.3	2061.4	2062.8	2044.3	1986.4	1974.7	1970.6	1766.6
37.5°	2118.3	2118.9	2155.6	2162.0	2151.5	2163.0	2164.7	2113.5	2135.4	2168.0	1935.7
40°	2195.9	2196.6	2232.9	2249.4	2267.2	2282.0	2295.1	2267.9	2340.2	2415.8	2137.1
42.5°	2258.1	2265.2	2311.2	2342.5	2389.6	2417.8	2453.5	2452.1	2583.9	2697.6	2380.5
45°	2312.9	2325.0	2389.3	2444.1	2524.8	2569.8	2625.6	2669.3	2858.3	3011.3	2627.0
47.5°	2385.2	2396.6	2469.9	2559.7	2667.3	2726.5	2819.0	2913.4	3159.9	3319.3	2867.7
50°	2487.1	2482.1	2554.3	2683.1	2821.3	2899.0	3030.8	3172.3	3459.1	3587.6	3009.3
52.5°	2595.7	2593.7	2647.1	2817.3	3002.9	3093.7	3267.8	3440.0	3745.3	3772.5	3074.2
55°	2730.2	2715.7	2760.8	2970.3	3218.4	3315.9	3521.0	3704.9	3973.2	3876.7	3106.8
57.5°	2871.1	2847.2	2890.2	3140.7	3461.5	3576.8	3801.4	3963.1	4124.9	3948.0	3106.4
60°	3016.7	2988.4	3039.5	3353.9	3763.4	3896.9	4105.4	4137.6	4266.4	3984.0	3083.6
62.5°	3138.4	3121.6	3197.6	3581.9	4100.7	4231.8	4335.0	4296.4	4385.8	4011.9	3030.1
65°	3267.1	3268.2	3390.9	3847.8	4459.1	4547.5	4556.3	4502.1	4485.6	4006.2	2849.2
67.5°	3441.3	3457.5	3662.2	4208.9	4807.8	4876.0	4875.3	4725.0	4558.6	3778.9	2448.1
70°	3625.6	3663.6	3974.9	4622.2	5188.4	5257.6	5222.0	4866.9	4292.3	3055.7	1732.6
72.5°	3594.6	3660.5	4148.7	4882.7	5461.7	5514.5	5282.9	4518.3	3392.6	1776.0	737.7
75°	2773.2	2849.6	3804.1	4624.5	5174.9	5127.5	4539.1	3516.0	1854.0	495.6	166.1
77.5°	1465.0	1505.6	2513.0	3523.0	4035.1	3935.9	3197.6	1950.5	565.2	122.7	74.6
80°	767.3	776.7	1095.1	1998.9	2490.5	2491.1	1895.0	856.7	233.0	62.9	50.1
82.5°	410.9	418.9	578.7	923.6	1304.9	1182.9	725.6	471.4	135.5	35.6	48.1
85°	98.9	100.5	328.2	422.0	513.1	366.5	215.5	395.7	36.6	20.8	39.0
87.5°	38.0	38.7	121.7	182.6	130.8	84.7	100.9	147.6	4.7	8.1	6.1
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°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1474.0	1465.3	1443.8	1416.5	1392.3	1374.8	1348.6	1331.5	1320.0	1319.7	1315.3
5°	1436.7	1418.9	1372.5	1317.4	1267.3	1222.2	1169.1	1127.0	1095.8	1090.7	1080.0
7.5°	1396.7	1367.4	1296.2	1210.1	1126.0	1040.6	941.4	879.9	827.1	801.9	799.2
10°	1372.2	1331.1	1229.9	1105.5	973.7	834.9	705.1	615.3	550.4	531.9	518.1
12.5°	1367.1	1313.0	1178.8	1007.3	819.1	635.5	491.9	396.4	344.6	328.2	323.8
15°	1372.2	1304.6	1135.8	910.2	662.4	450.9	330.2	274.7	255.2	250.5	250.2
17.5°	1375.2	1294.5	1087.0	802.2	510.4	322.1	252.8	236.7	233.7	233.3	234.0
20°	1374.8	1279.0	1028.9	681.9	379.6	253.2	228.6	225.3	224.6	224.9	224.6
22.5°	1372.5	1260.9	965.0	557.8	286.8	226.3	218.2	216.2	215.9	215.9	215.9
25°	1376.9	1246.4	894.7	439.1	236.4	213.8	208.8	207.1	206.8	206.8	206.1
27.5°	1392.7	1238.3	817.7	337.9	213.5	202.7	198.7	198.4	197.4	197.0	197.7
30°	1418.2	1238.3	733.3	262.9	199.7	191.3	188.3	187.6	187.3	186.9	187.3
32.5°	1463.3	1247.8	641.2	218.5	186.6	178.5	176.5	177.5	176.5	176.5	176.5
35°	1544.6	1276.0	544.7	190.6	172.8	166.1	164.1	165.4	164.8	164.8	164.4
37.5°	1663.3	1328.4	447.5	173.8	160.7	153.7	151.0	153.0	152.3	152.3	152.0
40°	1807.9	1404.8	355.1	161.1	149.0	141.6	139.2	140.2	138.5	138.5	139.2
42.5°	1986.4	1501.6	274.4	148.6	137.2	130.1	128.8	127.8	124.7	123.1	123.4
45°	2184.8	1602.5	213.8	136.5	126.1	120.4	118.4	115.7	110.6	107.3	107.6
47.5°	2362.0	1680.1	173.8	124.7	116.0	111.6	108.6	103.6	96.2	92.1	92.5
50°	2455.2	1691.9	147.9	113.0	106.6	102.2	97.8	90.1	81.4	77.0	76.7
52.5°	2479.0	1636.8	128.8	102.2	97.2	92.1	86.4	76.0	66.2	61.5	60.9
55°	2487.8	1552.7	111.6	92.1	87.1	81.4	74.0	62.2	53.1	48.4	48.1
57.5°	2458.9	1427.3	98.2	83.0	77.0	69.9	60.9	49.8	41.0	37.3	37.3
60°	2394.6	1257.5	87.8	73.3	66.6	58.5	49.1	38.7	30.6	27.6	27.6
62.5°	2266.5	1037.6	78.0	63.2	56.8	48.4	39.7	29.3	21.5	19.8	20.2
65°	2024.8	787.1	68.3	54.1	48.4	40.0	30.9	20.8	14.5	14.5	15.1
67.5°	1651.2	546.7	58.2	46.1	41.7	32.6	23.5	14.5	10.1	11.4	12.8
70°	1093.1	306.6	49.8	38.0	35.6	25.9	17.5	9.8	8.1	10.8	13.1
72.5°	412.6	119.4	41.7	30.6	30.9	19.8	12.4	7.4	7.4	11.8	15.5
75°	115.0	58.5	29.9	22.5	24.2	14.5	9.1	6.4	7.1	13.4	18.2
77.5°	67.6	43.0	19.5	13.1	16.5	10.1	6.1	5.0	6.1	11.4	17.5
80°	54.5	22.9	11.4	6.7	9.1	5.7	4.0	3.0	1.7	4.4	9.1
82.5°	54.5	13.8	5.4	4.7	4.7	3.0	2.0	1.3	0.3	0.0	2.4
85°	36.6	5.7	3.4	3.0	2.4	1.0	0.7	0.3	0.0	0.0	0.0
87.5°	6.1	2.4	1.3	0.7	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)