

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: P319925

Luminaire Tested: **GAN-SA1C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885 lumens
Efficiency: N/A
Efficacy: 99.7 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

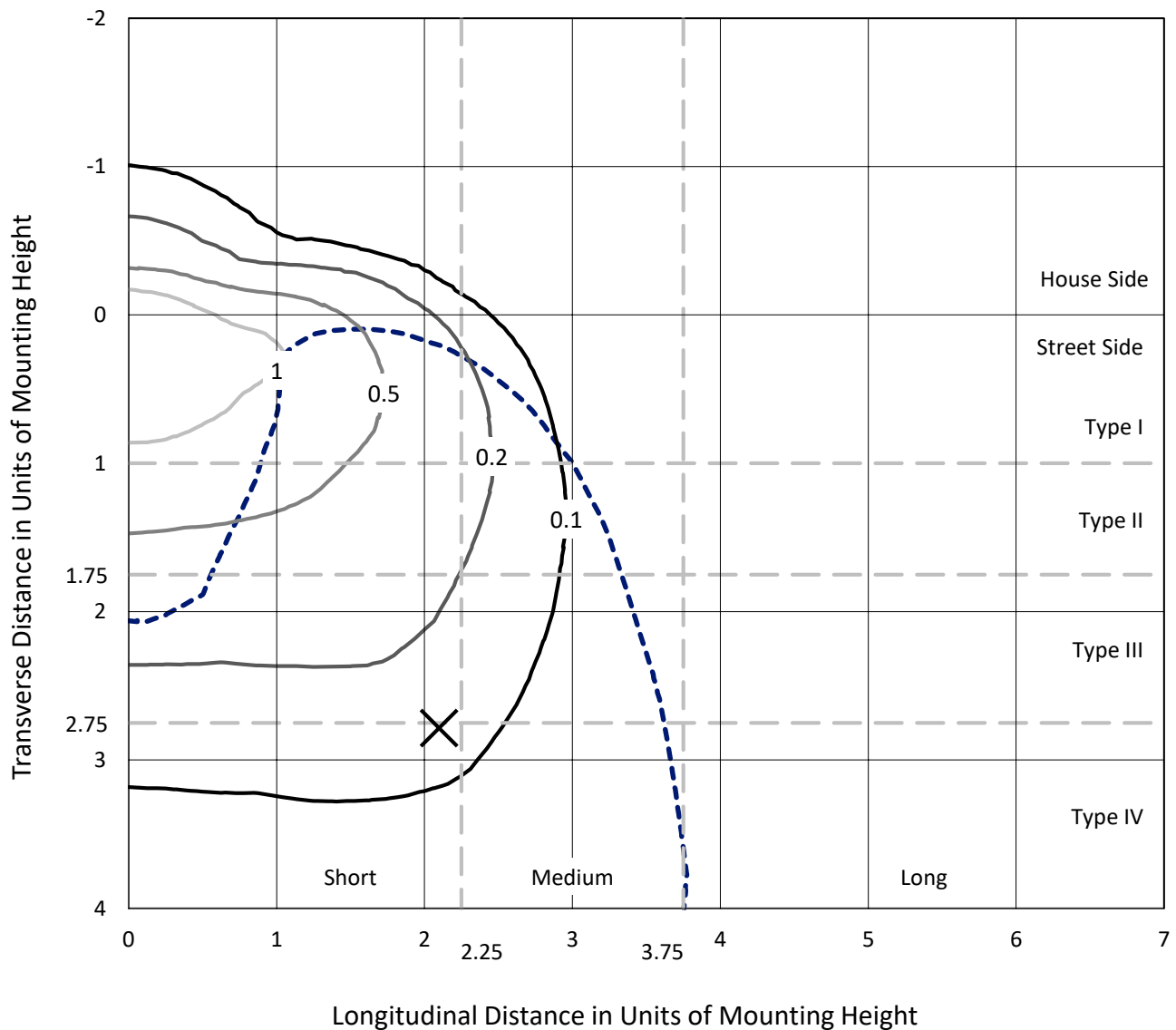
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

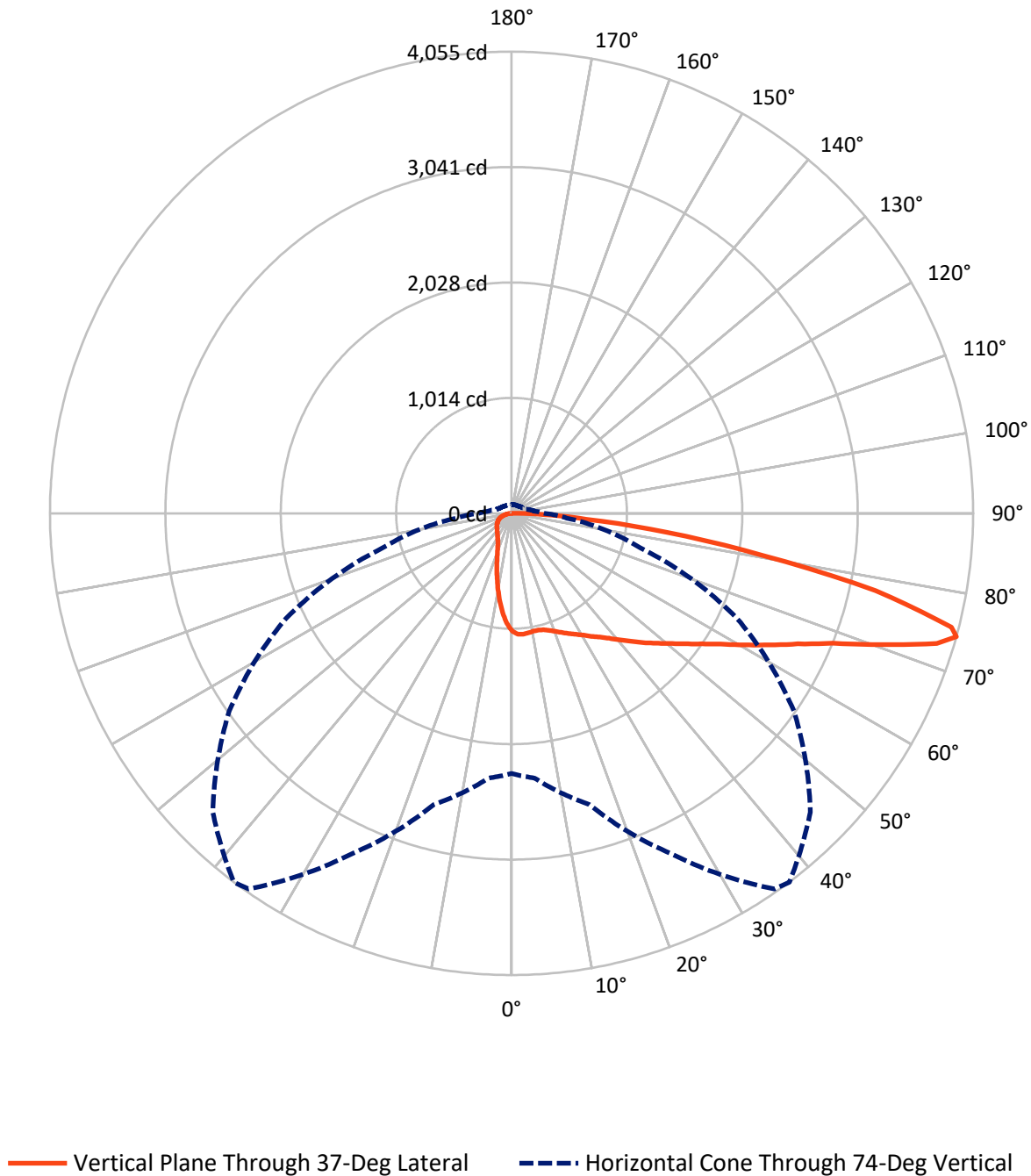
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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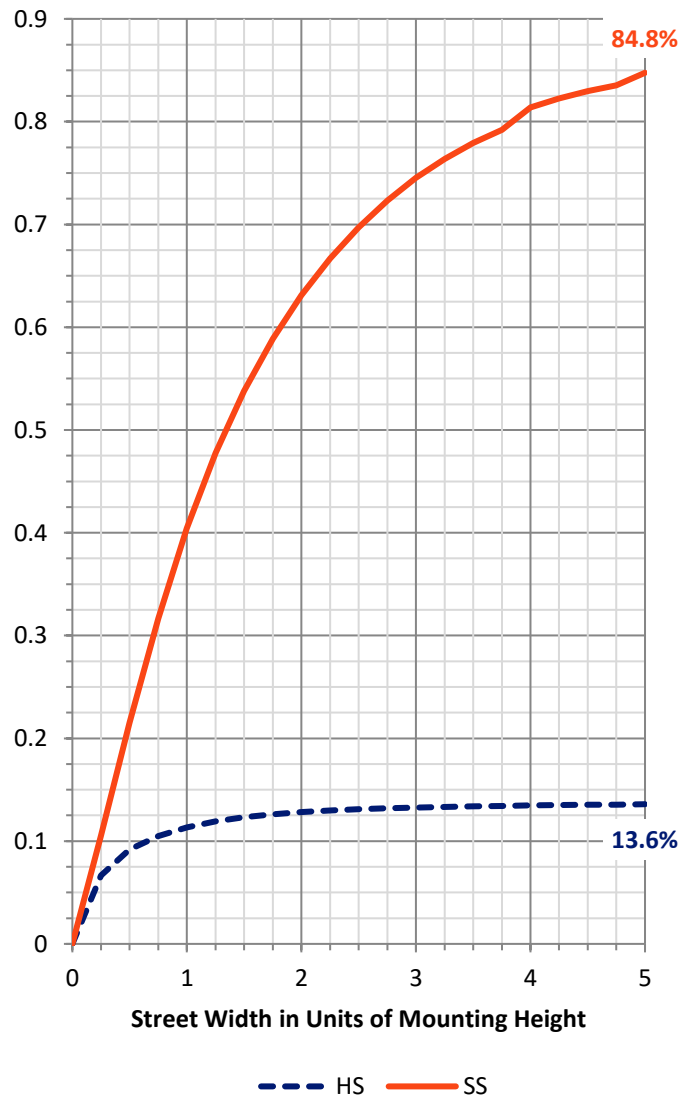
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.7	0.0	809.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	5075.3	0.0	5075.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	5885.0	0.0	5885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.6
10°-20°	234.1	4.0
20°-30°	360.6	6.1
30°-40°	524.4	8.9
40°-50°	771.9	13.1
50°-60°	1083.9	18.4
60°-70°	1371.9	23.3
70°-80°	1208.0	20.5
80°-90°	238.8	4.1
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°	5885.0	100.0
0°-180°	5885.0	100.0

Coefficient of Utilization



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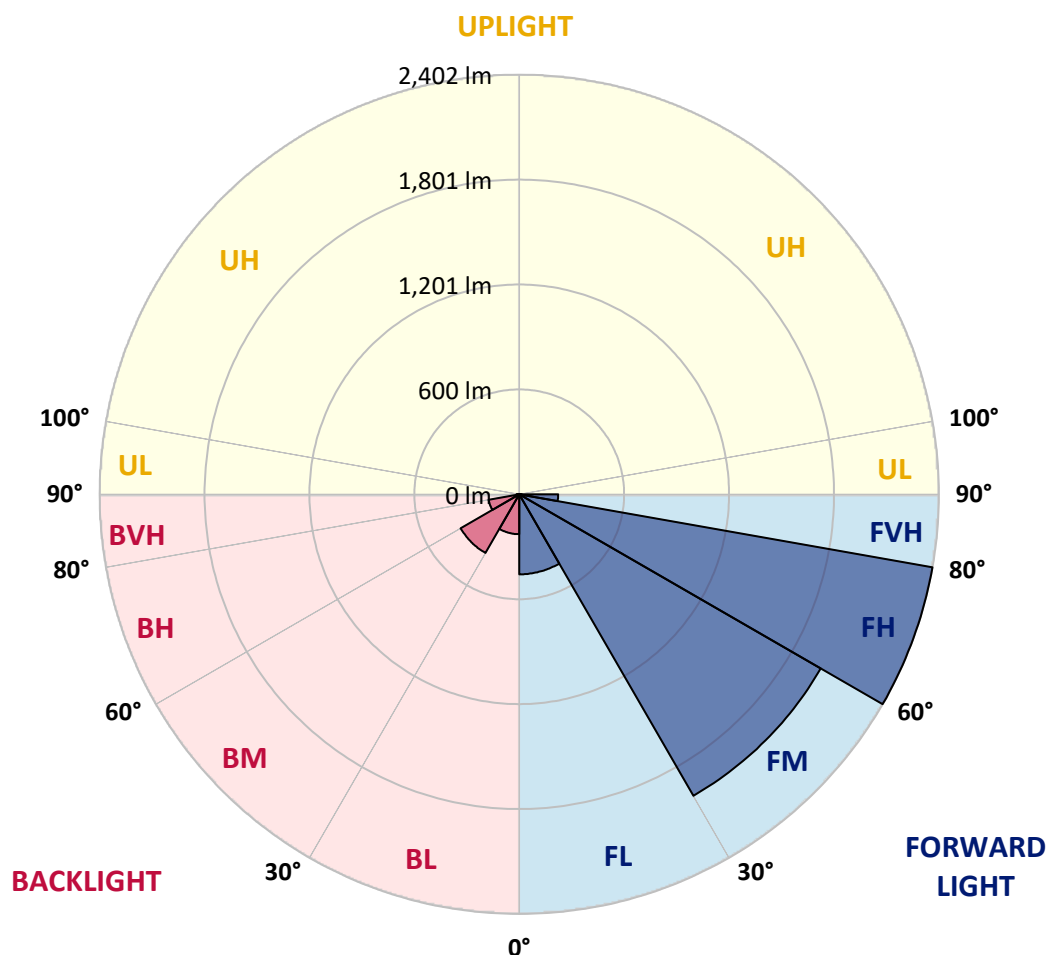
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.9	7.8			
FM	(30°-60°)	1992.7	33.9			
FH	(60°-80°)	2402.0	40.8			G2/5000
FVH	(80°-90°)	222.7	3.8			G2/225
BL	(0°-30°)	228.1	3.9	B1/500		
BM	(30°-60°)	387.5	6.6	B1/1000		
BH	(60°-80°)	178.0	3.0	B1/500		G1/500
BVH	(80°-90°)	16.2	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9
2.5°	1072.4	1072.6	1072.4	1070.7	1066.8	1063.4	1060.8	1056.8	1048.1	1041.5	1031.5
5°	1082.5	1081.3	1080.4	1077.3	1071.1	1067.4	1062.2	1054.7	1040.4	1027.2	1011.0
7.5°	1077.8	1076.3	1074.4	1070.7	1063.7	1060.5	1053.3	1043.5	1026.3	1008.9	985.7
10°	1063.0	1062.6	1061.8	1061.0	1054.9	1052.5	1045.8	1035.5	1018.5	997.3	970.2
12.5°	1046.7	1047.7	1051.0	1055.4	1052.7	1051.4	1047.3	1040.2	1022.8	1000.0	967.3
15°	1036.3	1039.2	1048.1	1059.5	1061.8	1061.4	1060.3	1055.8	1037.3	1012.0	973.9
17.5°	1032.8	1037.5	1054.5	1073.4	1080.0	1081.5	1081.9	1074.0	1053.5	1026.8	980.7
20°	1039.2	1045.2	1070.1	1096.0	1106.6	1107.4	1105.5	1091.8	1068.8	1039.4	984.5
22.5°	1058.7	1064.1	1095.2	1124.4	1136.4	1137.7	1132.1	1111.3	1085.0	1054.3	989.6
25°	1096.2	1102.8	1133.9	1163.2	1169.4	1169.6	1161.5	1135.8	1106.2	1075.3	1000.8
27.5°	1145.1	1151.8	1179.7	1208.4	1205.0	1203.2	1192.2	1166.5	1133.7	1104.1	1020.7
30°	1199.6	1206.9	1233.4	1253.7	1245.9	1242.1	1233.2	1200.1	1172.1	1143.5	1051.2
32.5°	1256.0	1262.7	1285.9	1299.8	1289.8	1288.2	1274.7	1244.4	1222.0	1203.6	1100.6
35°	1313.9	1318.6	1341.4	1349.3	1336.0	1335.6	1331.9	1304.1	1290.0	1298.7	1172.3
37.5°	1372.9	1374.2	1393.7	1394.1	1390.2	1391.8	1395.8	1378.3	1382.3	1409.4	1265.6
40°	1425.6	1428.9	1443.0	1447.4	1454.2	1460.0	1479.7	1468.3	1498.8	1546.9	1381.7
42.5°	1464.6	1471.0	1493.6	1504.8	1527.0	1536.1	1563.9	1574.4	1635.8	1707.9	1519.7
45°	1497.5	1507.5	1543.8	1566.8	1604.3	1620.3	1660.1	1695.5	1790.7	1882.7	1665.0
47.5°	1533.2	1545.8	1591.2	1635.2	1686.2	1704.2	1776.6	1829.6	1955.9	2058.5	1802.1
50°	1585.6	1595.4	1639.7	1708.8	1772.4	1795.6	1895.8	1971.8	2123.8	2226.0	1920.8
52.5°	1658.8	1655.1	1692.6	1789.4	1874.8	1903.4	2023.0	2123.2	2294.0	2377.5	2021.2
55°	1732.4	1726.2	1752.5	1873.8	1994.2	2024.3	2163.2	2275.1	2455.9	2513.9	2098.1
57.5°	1814.3	1802.5	1824.7	1968.9	2130.2	2166.1	2320.1	2436.6	2615.1	2624.2	2147.0
60°	1898.7	1882.7	1907.6	2086.9	2302.9	2345.2	2503.8	2594.2	2765.2	2712.5	2162.8
62.5°	1972.5	1961.3	1999.6	2218.5	2497.5	2544.0	2684.1	2761.6	2913.2	2749.2	2106.0
65°	2036.9	2038.8	2105.1	2366.5	2714.6	2764.1	2891.0	2968.1	3029.7	2727.4	1973.1
67.5°	2113.8	2124.4	2237.6	2561.4	2987.8	3042.1	3192.0	3193.2	3094.8	2599.7	1711.5
70°	2226.0	2247.8	2419.8	2831.7	3376.3	3450.9	3566.6	3325.5	3003.4	2253.6	1346.6
72.5°	2325.5	2366.1	2613.6	3141.0	3849.8	3906.4	3785.7	3249.2	2621.3	1688.9	838.9
74°	2285.1	2335.4	2648.9	3293.4	4028.0	4055.2	3711.7	3026.6	2185.6	1169.6	487.6
75°	2198.0	2252.7	2597.5	3291.9	4005.4	3990.3	3533.0	2772.2	1800.0	797.7	324.4
77.5°	1773.9	1831.7	2188.7	2821.4	3284.3	3269.9	2714.0	1859.7	788.4	261.6	164.8
80°	1031.3	1075.5	1358.6	1791.7	2214.6	2240.5	1784.9	920.2	310.1	147.0	111.7
82.5°	458.1	488.6	656.3	914.6	1336.5	1369.8	934.7	482.2	191.5	89.3	67.2
85°	300.6	323.2	398.4	435.5	636.4	659.2	457.5	375.4	126.5	49.1	49.3
87.5°	216.2	238.0	296.0	258.5	292.1	276.5	249.0	347.4	50.8	28.0	16.6
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°	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9
2.5°	1027.2	1023.9	1016.4	1002.3	994.4	987.8	976.8	970.4	967.5	967.3	968.5
5°	1001.7	994.0	974.7	951.1	932.2	915.0	893.7	880.8	871.7	866.3	867.8
7.5°	972.0	960.0	929.7	892.0	861.7	828.4	795.4	775.7	760.4	749.0	751.0
10°	951.7	935.1	891.0	836.7	786.3	737.8	692.4	665.2	643.7	627.1	628.3
12.5°	944.9	922.5	861.3	788.8	718.1	651.8	592.5	550.8	528.6	509.8	511.2
15°	945.9	915.9	836.5	745.7	656.7	573.2	501.3	452.5	422.5	409.4	409.6
17.5°	946.7	908.2	810.3	699.4	596.0	499.8	421.6	372.3	343.9	331.9	332.1
20°	944.0	895.7	778.0	646.4	532.6	432.4	356.8	314.9	293.3	284.0	284.0
22.5°	940.5	881.0	741.5	593.1	469.9	374.0	310.3	278.4	266.0	259.7	259.5
25°	942.2	870.0	704.2	538.4	412.3	327.3	279.4	258.3	250.0	246.1	245.9
27.5°	951.1	864.9	669.8	483.8	361.9	292.3	258.7	243.8	238.4	235.9	235.9
30°	967.3	864.9	633.9	437.4	320.1	266.4	242.7	232.6	228.9	227.2	227.2
32.5°	995.5	869.6	599.3	391.4	286.7	246.1	229.5	222.6	219.7	218.9	218.9
35°	1044.0	885.8	565.5	347.8	259.7	229.5	216.8	212.9	210.8	210.6	211.2
37.5°	1112.2	918.8	533.8	315.7	240.7	216.0	206.3	203.2	201.9	202.9	203.8
40°	1198.0	963.5	505.0	286.7	226.2	205.2	196.5	194.4	193.8	195.3	196.5
42.5°	1301.6	1024.1	481.4	265.8	215.0	196.1	188.2	185.7	185.1	186.8	188.4
45°	1413.8	1089.2	464.8	250.2	206.3	189.3	181.0	178.3	177.0	177.9	179.7
47.5°	1515.8	1150.7	458.1	239.2	198.0	183.5	174.5	171.2	169.2	168.7	170.2
50°	1601.8	1196.5	461.2	232.6	191.3	177.0	168.3	164.6	161.5	159.6	160.7
52.5°	1664.4	1225.3	464.1	229.7	186.2	170.0	161.5	158.0	153.8	150.7	150.7
55°	1709.8	1232.0	457.7	227.4	182.2	162.3	153.8	150.5	146.4	142.8	142.4
57.5°	1727.6	1213.3	433.9	224.1	179.5	155.1	145.7	143.2	139.7	135.6	135.4
60°	1703.6	1155.7	387.9	217.0	176.0	149.0	137.6	136.0	134.3	130.4	130.2
62.5°	1607.0	1029.2	328.4	202.7	168.9	142.6	130.2	131.0	131.2	128.5	128.1
65°	1431.8	855.5	270.3	184.1	158.4	135.0	122.5	126.5	128.7	128.3	127.7
67.5°	1177.3	665.8	229.1	164.4	144.5	124.4	114.2	118.8	120.6	122.1	121.7
70°	873.8	469.5	189.5	143.7	127.7	111.9	103.4	105.7	104.5	106.1	106.8
72.5°	487.2	281.7	154.4	122.9	110.3	97.4	91.4	91.0	88.3	88.3	88.3
74°	292.3	206.7	135.8	110.1	99.7	87.9	82.7	80.8	78.4	78.6	78.4
75°	235.1	177.7	124.6	101.6	92.2	82.3	77.1	74.6	72.8	72.8	72.6
77.5°	148.4	135.0	100.3	80.8	73.8	67.8	64.3	60.9	60.9	60.7	60.5
80°	112.1	107.4	78.2	61.2	56.6	52.0	49.8	48.3	48.3	48.9	48.7
82.5°	76.9	80.8	54.9	42.7	40.4	37.1	36.7	36.9	36.3	35.4	35.2
85°	56.2	60.7	37.1	26.9	24.7	22.6	24.3	25.1	24.0	22.2	21.4
87.5°	21.6	39.8	19.9	11.2	10.4	8.9	10.4	10.8	11.6	9.1	9.3
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)