

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: P318188

Luminaire Tested: **GAN-SA4A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13561 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

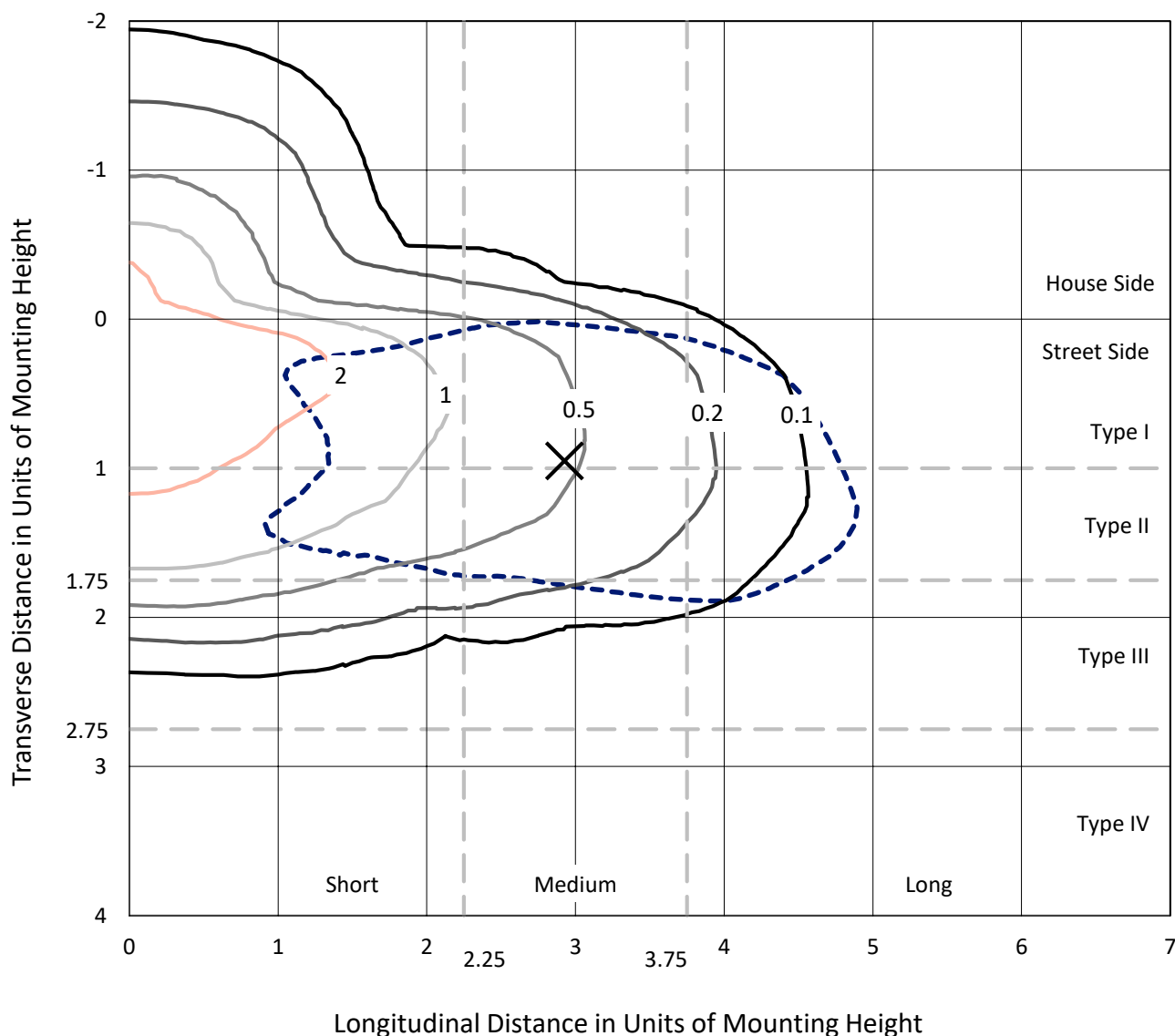
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

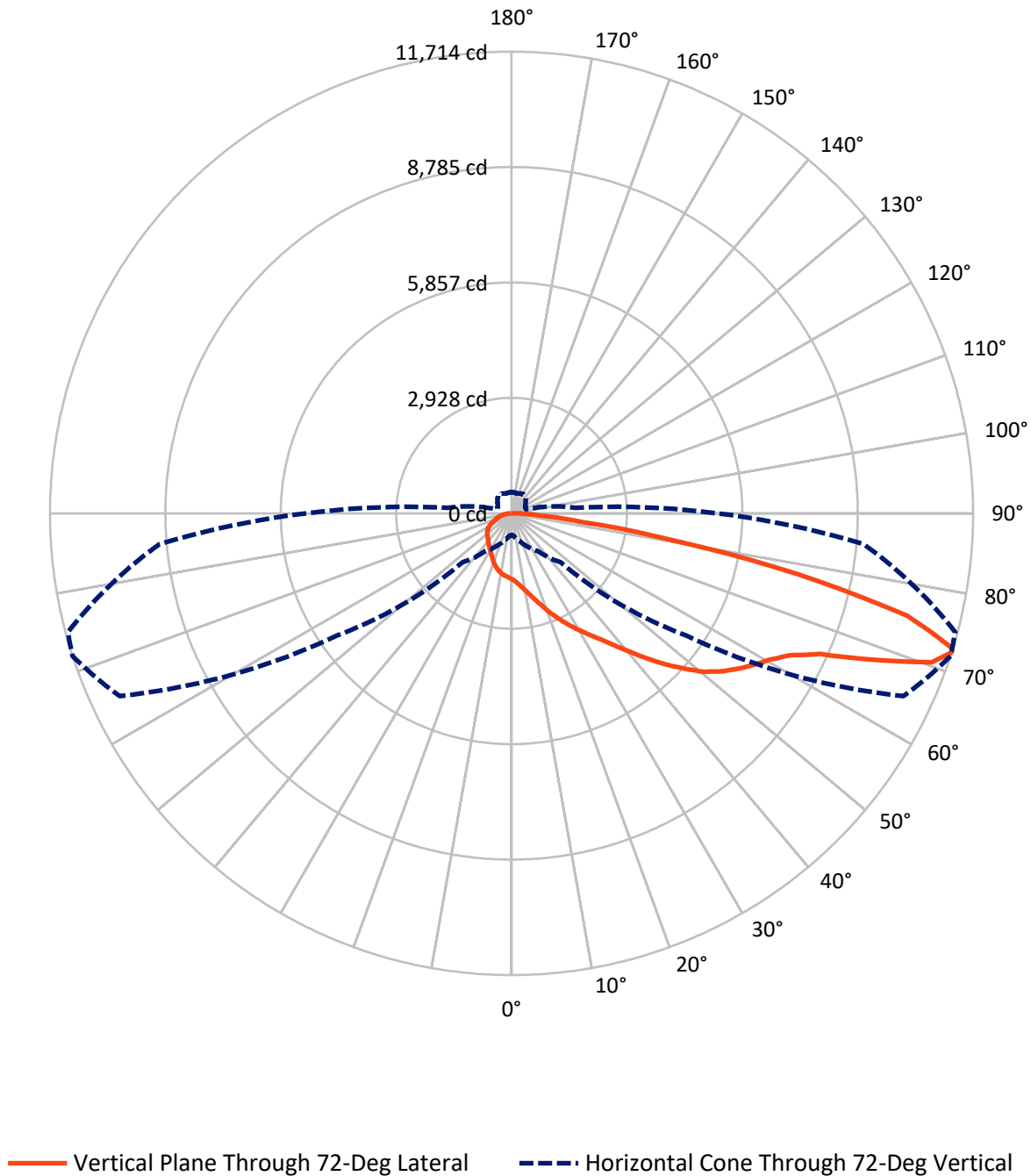
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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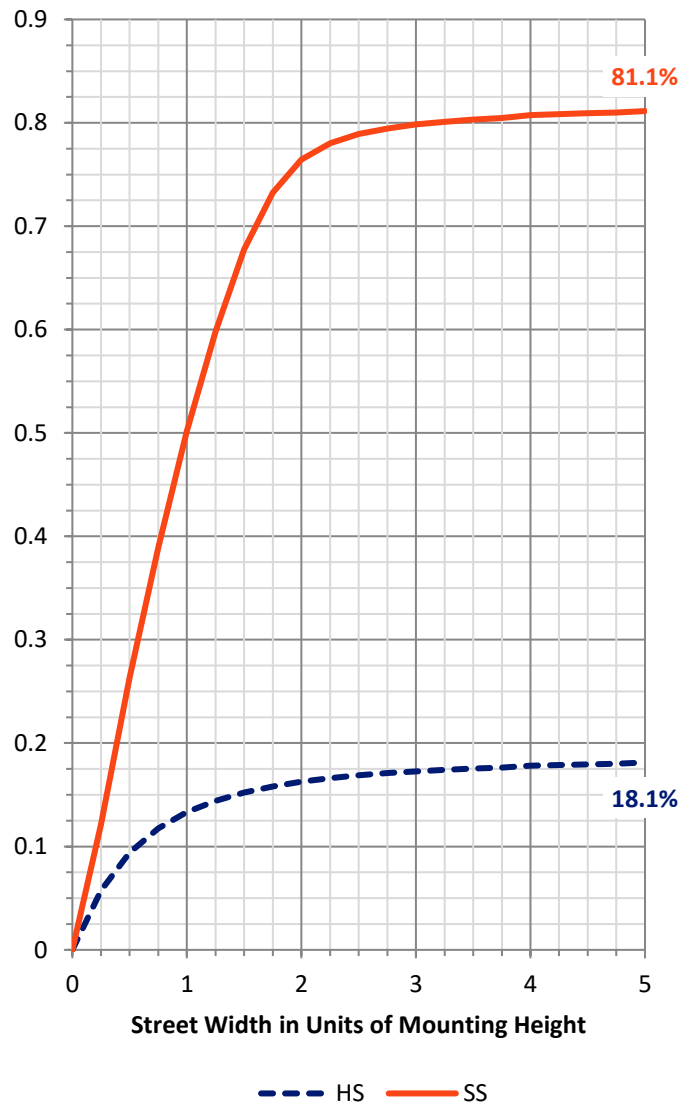
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2515.7	0.0	2515.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11045.3	0.0	11045.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	13561.0	0.0	13561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	1.2
10°-20°	540.2	4.0
20°-30°	946.6	7.0
30°-40°	1403.6	10.4
40°-50°	2052.8	15.1
50°-60°	2824.7	20.8
60°-70°	3144.7	23.2
70°-80°	2130.9	15.7
80°-90°	350.2	2.6
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°	13561.0	100.0
0°-180°	13561.0	100.0

Coefficient of Utilization



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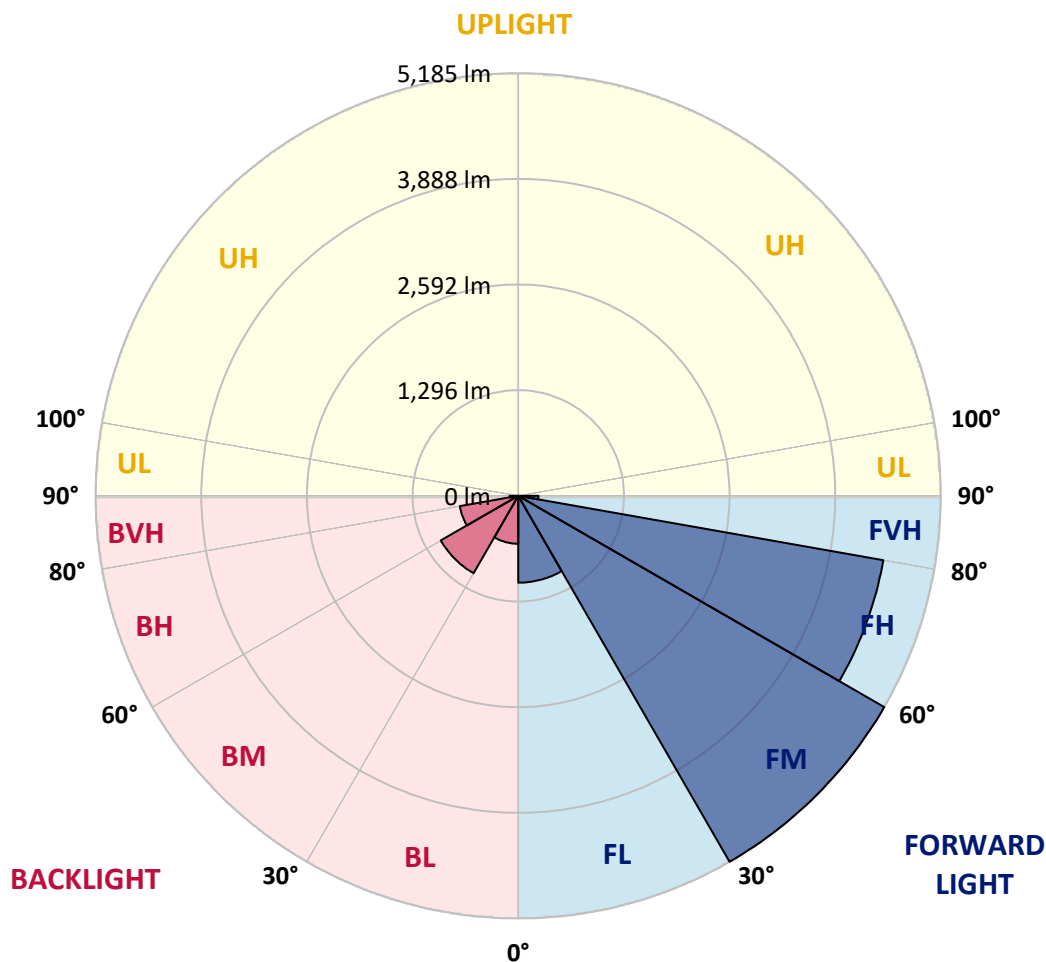
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.0	7.9			
FM	(30°-60°)	5184.5	38.2			
FH	(60°-80°)	4547.8	33.5			G2/5000
FVH	(80°-90°)	247.0	1.8			G3/500
BL	(0°-30°)	588.1	4.3	B2/1000		
BM	(30°-60°)	1096.6	8.1	B2/2500		
BH	(60°-80°)	727.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	103.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1843.0	1840.2	1830.4	1830.4	1811.7	1795.8	1765.9	1745.9	1722.1	1713.6	1685.6
5°	2021.4	2022.3	2010.2	2001.7	1974.2	1940.6	1889.7	1843.5	1797.2	1778.6	1721.1
7.5°	2171.2	2169.4	2166.1	2159.1	2133.4	2098.9	2030.2	1961.6	1893.4	1865.4	1766.4
10°	2267.4	2271.6	2274.4	2277.7	2267.0	2242.2	2177.3	2093.7	2004.5	1966.3	1820.6
12.5°	2316.0	2323.5	2336.5	2359.0	2376.7	2373.9	2326.7	2238.0	2132.0	2083.9	1888.3
15°	2344.5	2354.3	2374.8	2415.0	2464.9	2493.4	2480.8	2400.5	2282.4	2223.1	1970.9
17.5°	2362.2	2370.2	2401.9	2455.6	2529.9	2605.5	2638.6	2571.4	2452.3	2384.6	2065.7
20°	2374.4	2380.4	2420.1	2483.2	2579.3	2699.8	2792.3	2775.5	2639.6	2551.8	2164.7
22.5°	2401.4	2406.6	2444.4	2507.9	2614.4	2769.9	2940.3	2965.5	2837.1	2737.6	2270.7
25°	2477.1	2477.1	2508.8	2553.2	2653.1	2830.6	3065.4	3177.0	3038.8	2923.0	2368.8
27.5°	2621.4	2620.0	2631.6	2647.1	2722.7	2892.2	3177.0	3363.8	3248.0	3121.5	2464.0
30°	2792.3	2801.6	2803.0	2795.5	2831.0	2969.2	3280.2	3560.8	3458.6	3322.2	2561.6
32.5°	3012.2	3018.3	3011.3	2986.5	2981.4	3078.5	3381.5	3767.2	3686.4	3531.9	2650.8
35°	3291.4	3279.7	3257.8	3207.4	3159.3	3224.6	3497.3	3973.6	3942.3	3785.4	2773.6
37.5°	3590.7	3591.2	3564.1	3449.7	3383.4	3411.4	3657.0	4207.5	4251.9	4087.1	2930.9
40°	3830.7	3843.3	3860.1	3709.8	3623.9	3662.6	3860.1	4478.8	4618.0	4444.7	3135.9
42.5°	3998.4	4012.8	4060.5	3966.1	3877.0	3948.9	4099.2	4768.3	5028.9	4857.5	3375.9
45°	4175.8	4183.7	4217.4	4176.7	4119.8	4281.8	4368.6	5068.1	5463.6	5297.4	3644.4
47.5°	4362.6	4371.0	4405.5	4378.4	4348.6	4592.8	4649.7	5350.6	5880.1	5780.6	3931.1
50°	4593.2	4598.8	4631.5	4582.5	4591.8	4827.2	4900.9	5609.8	6316.7	6214.9	4218.8
52.5°	4907.9	4909.3	4954.6	4910.3	4866.4	4999.0	5117.1	5854.0	6659.0	6610.9	4506.4
55°	5154.5	5169.4	5317.9	5308.6	5283.4	5155.0	5297.8	6086.5	6964.3	6987.2	4811.8
57.5°	4997.1	5055.5	5356.2	5568.2	5774.6	5543.0	5542.0	6348.4	7248.2	7356.6	5147.5
60°	4376.6	4456.0	4899.1	5369.3	6015.0	6218.2	6049.1	6668.3	7534.9	7722.6	5568.2
62.5°	3125.7	3256.4	3856.9	4607.7	5685.4	6665.5	7081.1	7175.8	7924.8	8146.6	6115.0
65°	1580.1	1679.1	2182.5	3086.9	4542.3	6373.2	8202.6	8287.2	8602.3	8799.4	6956.9
67.5°	960.0	997.4	1243.0	1716.9	2784.8	4964.4	8568.7	10139.5	9913.5	10018.1	8157.3
70°	707.4	735.0	888.1	1140.3	1601.6	2913.2	7445.3	11461.4	11312.9	11301.2	9044.5
72°	551.0	571.1	706.5	921.3	1171.1	1747.7	5396.4	10973.4	11713.5	11654.7	8963.3
72.5°	522.5	540.2	663.5	867.1	1106.6	1584.3	4851.9	10644.2	11684.6	11658.0	8858.2
75°	411.4	424.0	491.2	670.5	866.2	898.8	2658.7	8248.9	10365.5	10796.5	7967.3
77.5°	340.4	342.3	377.7	487.9	675.2	635.5	1306.0	5723.2	7422.4	7896.3	5643.8
80°	277.4	279.7	296.5	342.3	510.8	470.2	620.1	3291.0	4155.7	4160.9	2683.9
82.5°	220.9	221.3	240.0	250.3	367.0	336.2	355.3	1545.1	1815.9	1746.8	964.7
85°	155.5	152.2	234.4	205.5	240.0	215.7	196.1	611.7	750.8	718.1	302.1
87.5°	51.8	53.7	104.1	133.1	140.1	122.3	87.3	234.4	283.4	281.1	95.7
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°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1676.8	1661.8	1639.9	1615.6	1596.4	1576.8	1562.4	1554.9	1546.5	1539.5	1547.9
5°	1694.5	1666.5	1619.8	1574.0	1540.4	1510.5	1489.1	1477.8	1467.6	1460.6	1461.5
7.5°	1723.5	1678.2	1599.7	1532.9	1486.3	1454.0	1432.1	1424.6	1418.1	1416.2	1418.5
10°	1754.3	1687.5	1573.1	1484.4	1431.2	1404.5	1394.7	1399.9	1404.5	1408.7	1413.4
12.5°	1789.3	1695.9	1534.3	1427.4	1382.1	1371.9	1381.7	1404.1	1420.4	1430.2	1436.3
15°	1835.1	1703.4	1489.5	1370.5	1340.1	1351.8	1384.9	1423.7	1452.2	1470.4	1473.2
17.5°	1877.1	1702.9	1432.1	1313.0	1306.0	1340.1	1390.1	1444.7	1483.0	1508.7	1513.8
20°	1920.5	1690.3	1365.3	1257.0	1271.5	1327.5	1392.4	1458.2	1504.5	1534.3	1541.4
22.5°	1961.1	1668.4	1292.0	1206.1	1242.5	1310.7	1383.5	1450.3	1496.5	1520.8	1528.3
25°	1988.7	1630.1	1217.8	1163.1	1216.8	1290.1	1354.6	1408.3	1442.8	1455.0	1456.8
27.5°	2002.7	1580.1	1147.7	1125.8	1190.2	1256.5	1300.9	1327.5	1337.3	1336.4	1334.5
30°	2004.5	1514.3	1087.5	1095.4	1159.4	1207.0	1228.0	1222.9	1210.3	1188.8	1190.7
32.5°	1998.5	1440.0	1037.1	1066.5	1120.2	1146.8	1147.7	1123.0	1089.4	1055.3	1045.9
35°	2000.3	1367.2	992.7	1033.8	1072.5	1084.2	1073.5	1037.1	991.3	947.4	938.1
37.5°	2020.9	1303.7	954.4	996.0	1019.8	1022.6	1007.2	968.9	935.3	892.3	888.6
40°	2069.9	1258.4	918.0	953.5	967.0	968.4	946.5	919.4	922.2	899.3	898.8
42.5°	2158.2	1238.8	885.8	909.1	917.5	920.3	903.5	886.2	910.5	895.6	890.4
45°	2272.1	1243.4	858.7	865.7	881.1	894.2	883.9	862.9	872.2	807.3	785.9
47.5°	2403.8	1273.3	837.2	828.3	855.0	879.7	863.8	832.1	798.9	734.5	722.3
50°	2557.9	1319.6	817.6	791.5	826.5	860.1	844.2	798.9	749.0	717.7	713.5
52.5°	2718.5	1376.1	798.0	750.8	790.5	845.2	837.2	791.5	729.8	699.0	693.4
55°	2900.6	1433.0	773.2	703.7	751.8	838.1	833.9	764.4	715.3	698.1	693.9
57.5°	3127.1	1497.9	740.6	654.6	715.3	812.9	799.9	748.0	700.4	687.3	685.9
60°	3422.2	1593.6	693.4	602.3	671.0	774.2	771.4	724.2	676.6	667.2	665.4
62.5°	3864.8	1751.9	628.5	550.0	621.5	708.3	734.0	692.0	651.4	650.9	651.8
65°	4551.2	1990.1	558.0	504.3	571.5	652.8	690.6	658.8	625.7	635.0	636.4
67.5°	5346.9	2187.6	488.9	459.5	520.6	600.0	651.4	625.7	591.6	615.9	616.4
70°	5611.6	2011.1	428.2	415.1	467.9	549.1	608.9	589.3	554.7	579.0	576.7
72°	5222.2	1623.5	389.0	381.5	428.2	507.1	571.1	555.2	521.1	537.4	531.4
72.5°	5099.4	1547.9	379.2	373.1	417.4	496.4	561.3	546.8	512.7	526.7	521.1
75°	4548.9	1344.3	325.9	327.3	364.2	444.1	506.2	501.5	466.5	467.9	466.0
77.5°	3299.4	985.7	274.6	283.9	310.0	390.4	450.6	447.8	409.5	402.5	401.1
80°	1531.1	502.9	223.7	227.9	254.9	326.4	384.3	380.6	349.7	340.9	335.7
82.5°	524.4	239.1	168.1	170.9	197.5	262.9	333.4	331.1	305.4	288.1	277.4
85°	187.2	119.1	117.7	114.9	141.0	206.9	290.4	277.8	240.0	204.5	203.6
87.5°	60.7	50.9	60.7	60.2	82.2	140.1	211.1	179.8	174.2	144.7	141.9
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)