

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: P317987

Luminaire Tested: **GAN-SA3A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317987
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-SA3A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 11675 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

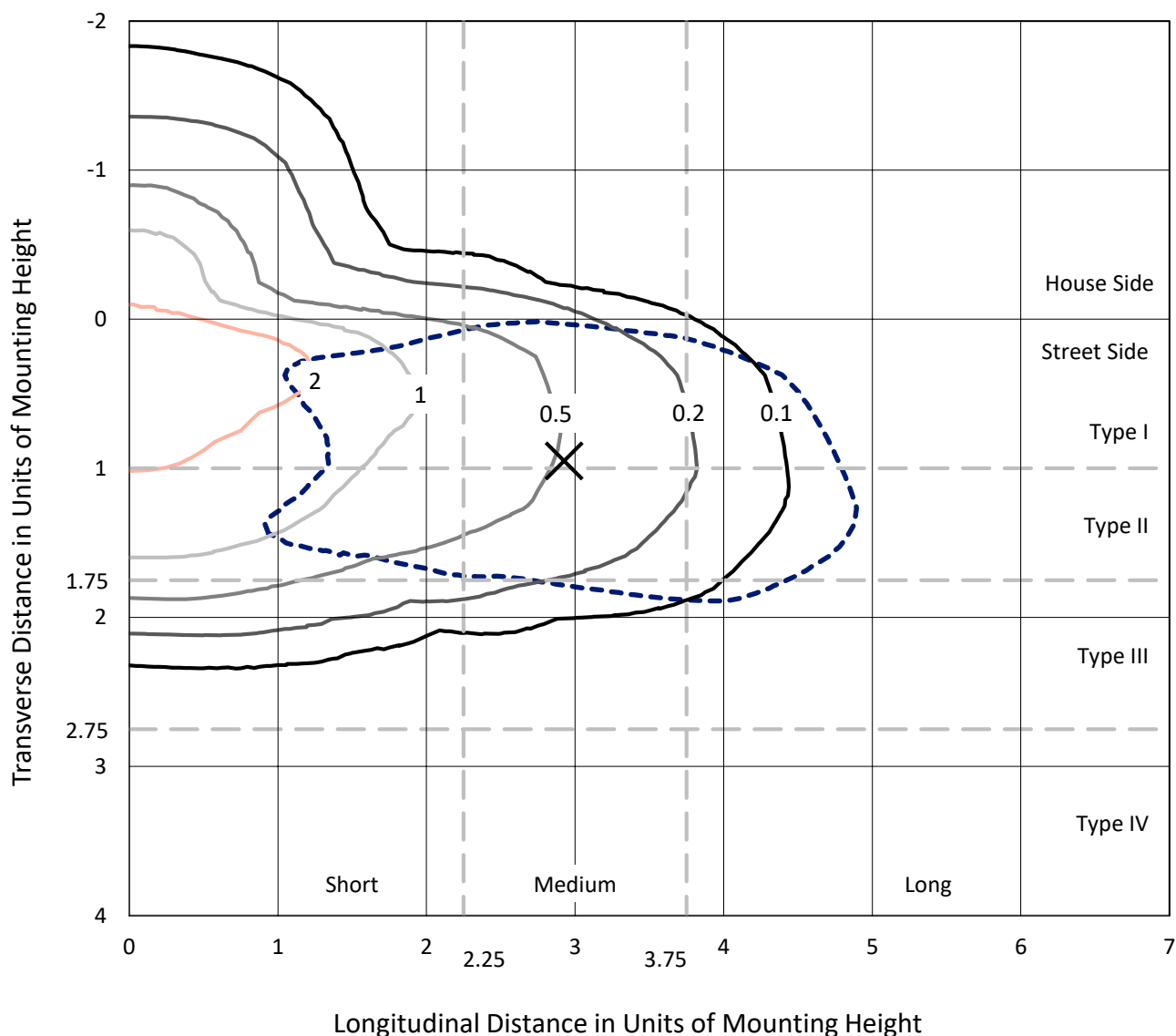
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

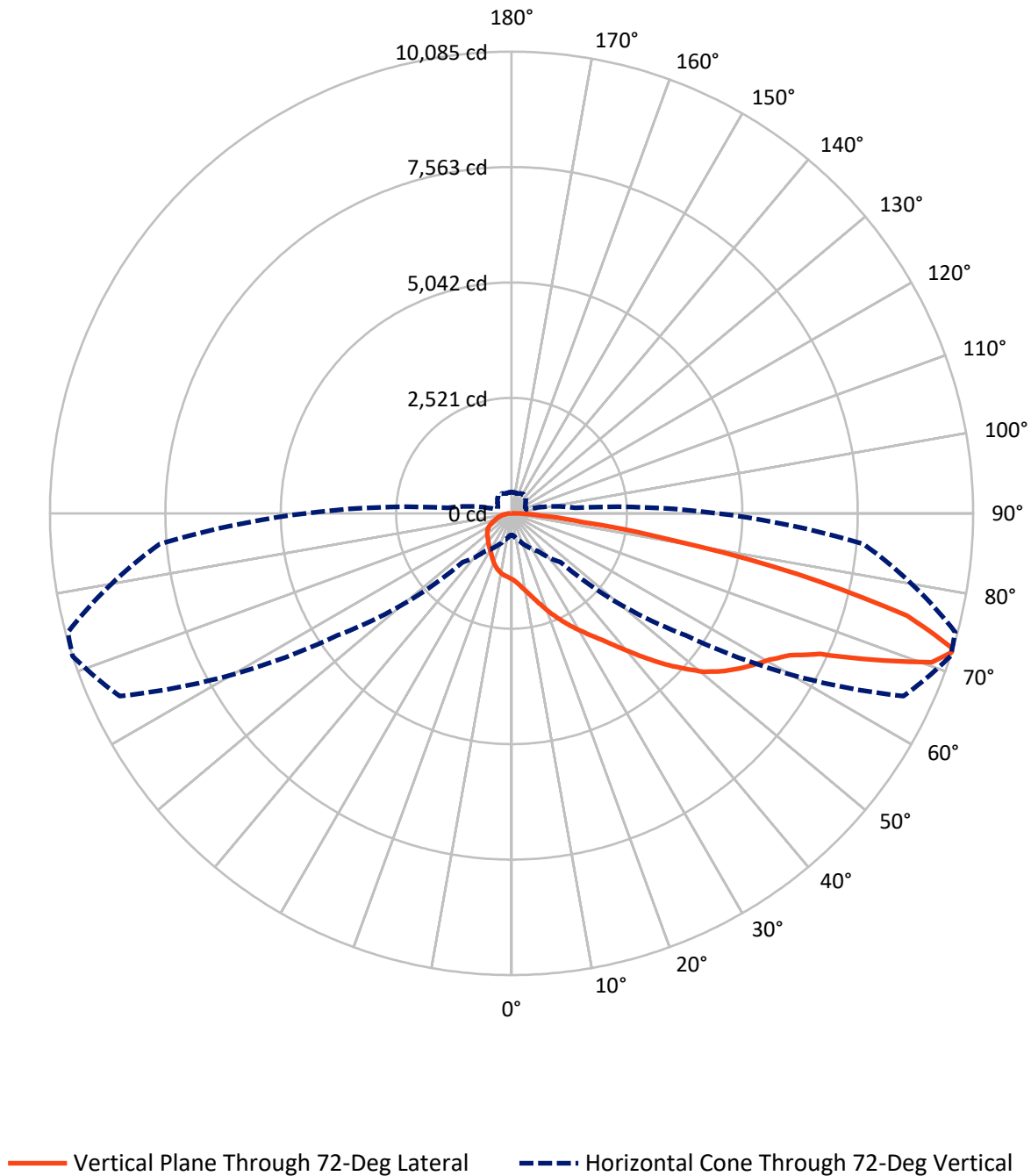
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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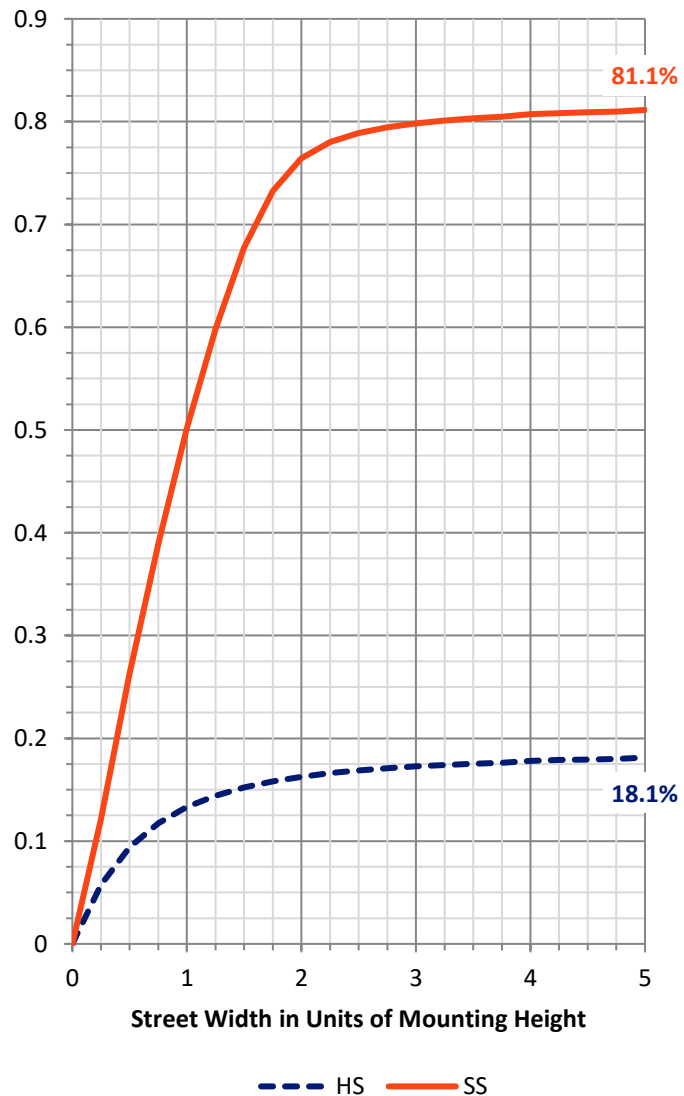
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.8	0.0	2165.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9509.2	0.0	9509.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	11675.0	0.0	11675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.2
10°-20°	465.1	4.0
20°-30°	815.0	7.0
30°-40°	1208.4	10.4
40°-50°	1767.3	15.1
50°-60°	2431.9	20.8
60°-70°	2707.4	23.2
70°-80°	1834.5	15.7
80°-90°	301.5	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°	11675.0	100.0
0°-180°	11675.0	100.0

Coefficient of Utilization



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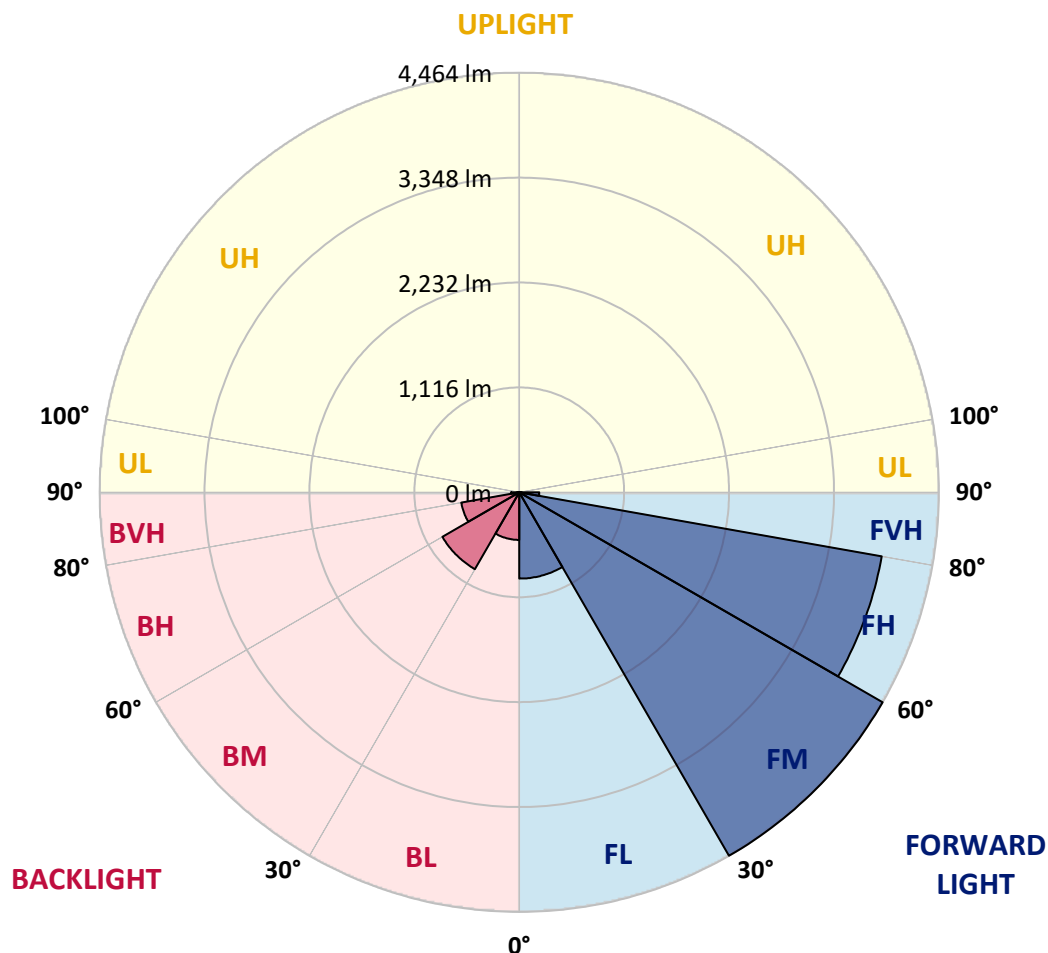
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.7	7.9			
FM	(30°-60°)	4463.5	38.2			
FH	(60°-80°)	3915.3	33.5			G2/5000
FVH	(80°-90°)	212.7	1.8			G2/225
BL	(0°-30°)	506.3	4.3	B2/1000		
BM	(30°-60°)	944.1	8.1	B1/1000		
BH	(60°-80°)	626.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	88.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1586.7	1584.3	1575.8	1575.8	1559.7	1546.1	1520.3	1503.1	1482.6	1475.3	1451.2
5°	1740.2	1741.0	1730.6	1723.4	1699.6	1670.7	1626.9	1587.1	1547.3	1531.2	1481.8
7.5°	1869.3	1867.7	1864.9	1858.8	1836.7	1807.0	1747.9	1688.8	1630.1	1606.0	1520.7
10°	1952.1	1955.7	1958.1	1960.9	1951.7	1930.4	1874.5	1802.5	1725.8	1692.8	1567.4
12.5°	1993.9	2000.3	2011.6	2030.9	2046.2	2043.7	2003.1	1926.8	1835.5	1794.1	1625.7
15°	2018.4	2026.9	2044.5	2079.1	2122.1	2146.7	2135.8	2066.7	1965.0	1913.9	1696.8
17.5°	2033.7	2040.5	2067.9	2114.1	2178.0	2243.1	2271.7	2213.8	2111.3	2053.0	1778.4
20°	2044.1	2049.4	2083.5	2137.8	2220.6	2324.3	2403.9	2389.5	2272.5	2196.9	1863.7
22.5°	2067.5	2071.9	2104.4	2159.1	2250.8	2384.6	2531.4	2553.1	2442.5	2356.9	1954.9
25°	2132.6	2132.6	2159.9	2198.1	2284.1	2436.9	2639.1	2735.2	2616.2	2516.5	2039.3
27.5°	2256.8	2255.6	2265.6	2278.9	2344.0	2490.0	2735.2	2896.0	2796.3	2687.3	2121.3
30°	2403.9	2412.0	2413.2	2406.7	2437.3	2556.3	2824.0	3065.6	2977.6	2860.2	2205.3
32.5°	2593.3	2598.5	2592.5	2571.2	2566.7	2650.4	2911.3	3243.3	3173.8	3040.7	2282.1
35°	2833.7	2823.6	2804.7	2761.3	2719.9	2776.2	3010.9	3421.0	3394.0	3259.0	2387.9
37.5°	3091.3	3091.7	3068.4	2969.9	2912.9	2937.0	3148.4	3622.4	3660.6	3518.7	2523.3
40°	3298.0	3308.8	3323.3	3193.9	3119.9	3153.3	3323.3	3855.9	3975.7	3826.6	2699.8
42.5°	3442.3	3454.7	3495.8	3414.5	3337.8	3399.7	3529.1	4105.2	4329.5	4182.0	2906.4
45°	3595.0	3601.9	3630.8	3595.8	3546.8	3686.3	3761.1	4363.3	4703.7	4560.6	3137.6
47.5°	3755.8	3763.1	3792.8	3769.5	3743.8	3954.0	4003.1	4606.5	5062.3	4976.7	3384.4
50°	3954.4	3959.3	3987.4	3945.2	3953.2	4155.8	4219.3	4829.6	5438.2	5350.6	3632.0
52.5°	4225.4	4226.6	4265.6	4227.4	4189.6	4303.8	4405.5	5039.8	5732.9	5691.5	3879.7
55°	4437.6	4450.5	4578.3	4570.3	4548.6	4438.0	4561.0	5240.0	5995.8	6015.5	4142.6
57.5°	4302.2	4352.4	4611.3	4793.8	4971.5	4772.1	4771.3	5465.5	6240.2	6333.4	4431.6
60°	3767.9	3836.2	4217.7	4622.5	5178.5	5353.4	5207.9	5740.9	6487.0	6648.6	4793.8
62.5°	2691.0	2803.5	3320.5	3966.9	4894.7	5738.5	6096.3	6177.9	6822.7	7013.6	5264.5
65°	1360.4	1445.6	1878.9	2657.6	3910.6	5486.8	7061.9	7134.6	7406.0	7575.6	5989.3
67.5°	826.5	858.7	1070.1	1478.1	2397.5	4274.0	7377.0	8729.3	8534.8	8624.8	7022.9
70°	609.0	632.7	764.6	981.7	1378.8	2508.0	6409.8	9867.4	9739.5	9729.5	7786.7
72°	474.4	491.6	608.2	793.1	1008.2	1504.7	4645.9	9447.3	10084.5	10033.8	7716.7
72.5°	449.8	465.1	571.2	746.5	952.7	1364.0	4177.1	9163.9	10059.5	10036.6	7626.3
75°	354.2	365.0	422.9	577.3	745.7	773.8	2289.0	7101.7	8923.9	9294.9	6859.2
77.5°	293.1	294.7	325.2	420.1	581.3	547.1	1124.4	4927.3	6390.1	6798.1	4858.9
80°	238.8	240.8	255.3	294.7	439.8	404.8	533.8	2833.3	3577.8	3582.2	2310.7
82.5°	190.1	190.5	206.6	215.5	316.0	289.4	305.9	1330.2	1563.4	1503.9	830.5
85°	133.9	131.1	201.8	176.9	206.6	185.7	168.8	526.6	646.4	618.3	260.1
87.5°	44.6	46.2	89.6	114.6	120.6	105.3	75.2	201.8	244.0	242.0	82.4
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°	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1443.6	1430.7	1411.8	1390.9	1374.4	1357.5	1345.1	1338.6	1331.4	1325.4	1332.6
5°	1458.8	1434.7	1394.5	1355.1	1326.2	1300.5	1282.0	1272.3	1263.5	1257.4	1258.2
7.5°	1483.8	1444.8	1377.2	1319.8	1279.6	1251.8	1232.9	1226.5	1220.9	1219.3	1221.3
10°	1510.3	1452.8	1354.3	1277.9	1232.1	1209.2	1200.8	1205.2	1209.2	1212.8	1216.8
12.5°	1540.4	1460.0	1321.0	1228.9	1189.9	1181.1	1189.5	1208.8	1222.9	1231.3	1236.5
15°	1579.8	1466.5	1282.4	1179.9	1153.7	1163.8	1192.3	1225.7	1250.2	1265.9	1268.3
17.5°	1616.0	1466.1	1232.9	1130.4	1124.4	1153.7	1196.7	1243.8	1276.7	1298.8	1303.3
20°	1653.4	1455.2	1175.4	1082.2	1094.6	1142.9	1198.8	1255.4	1295.2	1321.0	1327.0
22.5°	1688.4	1436.3	1112.3	1038.4	1069.7	1128.4	1191.1	1248.6	1288.4	1309.3	1315.7
25°	1712.1	1403.4	1048.4	1001.4	1047.6	1110.7	1166.2	1212.4	1242.2	1252.6	1254.2
27.5°	1724.2	1360.4	988.1	969.2	1024.7	1081.8	1120.0	1142.9	1151.3	1150.5	1148.9
30°	1725.8	1303.7	936.2	943.1	998.2	1039.2	1057.2	1052.8	1042.0	1023.5	1025.1
32.5°	1720.5	1239.8	892.8	918.2	964.4	987.3	988.1	966.8	937.9	908.5	900.5
35°	1722.1	1177.0	854.6	890.0	923.4	933.4	924.2	892.8	853.4	815.6	807.6
37.5°	1739.8	1122.4	821.7	857.5	878.0	880.4	867.1	834.1	805.2	768.2	765.0
40°	1782.0	1083.4	790.3	820.9	832.5	833.7	814.8	791.5	793.9	774.2	773.8
42.5°	1858.0	1066.5	762.6	782.7	789.9	792.3	777.9	763.0	783.9	771.0	766.6
45°	1956.1	1070.5	739.3	745.3	758.6	769.8	761.0	742.9	750.9	695.1	676.6
47.5°	2069.5	1096.2	720.8	713.1	736.1	757.4	743.7	716.4	687.8	632.3	621.9
50°	2202.1	1136.0	703.9	681.4	711.5	740.5	726.8	687.8	644.8	617.9	614.2
52.5°	2340.4	1184.7	687.0	646.4	680.6	727.6	720.8	681.4	628.3	601.8	597.0
55°	2497.2	1233.7	665.7	605.8	647.2	721.6	718.0	658.1	615.9	601.0	597.4
57.5°	2692.2	1289.6	637.6	563.6	615.9	699.9	688.6	644.0	603.0	591.7	590.5
60°	2946.2	1372.0	597.0	518.6	577.7	666.5	664.1	623.5	582.5	574.5	572.8
62.5°	3327.3	1508.3	541.1	473.6	535.1	609.8	631.9	595.8	560.8	560.4	561.2
65°	3918.2	1713.3	480.4	434.2	492.0	562.0	594.6	567.2	538.7	546.7	547.9
67.5°	4603.2	1883.3	420.9	395.6	448.2	516.6	560.8	538.7	509.3	530.2	530.6
70°	4831.2	1731.4	368.6	357.4	402.8	472.7	524.2	507.3	477.6	498.5	496.5
72°	4495.9	1397.7	334.9	328.4	368.6	436.6	491.6	478.0	448.6	462.7	457.5
72.5°	4390.2	1332.6	326.4	321.2	359.4	427.3	483.2	470.7	441.4	453.5	448.6
75°	3916.2	1157.3	280.6	281.8	313.6	382.3	435.8	431.7	401.6	402.8	401.2
77.5°	2840.5	848.6	236.4	244.4	266.9	336.1	387.9	385.5	352.5	346.5	345.3
80°	1318.1	432.9	192.6	196.2	219.5	281.0	330.8	327.6	301.1	293.5	289.0
82.5°	451.4	205.8	144.7	147.1	170.0	226.3	287.0	285.0	262.9	248.0	238.8
85°	161.2	102.5	101.3	98.9	121.4	178.1	250.0	239.2	206.6	176.1	175.3
87.5°	52.3	43.8	52.3	51.9	70.8	120.6	181.7	154.8	149.9	124.6	122.2
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)