

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: P836640

Luminaire Tested: **ARCH3-50-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

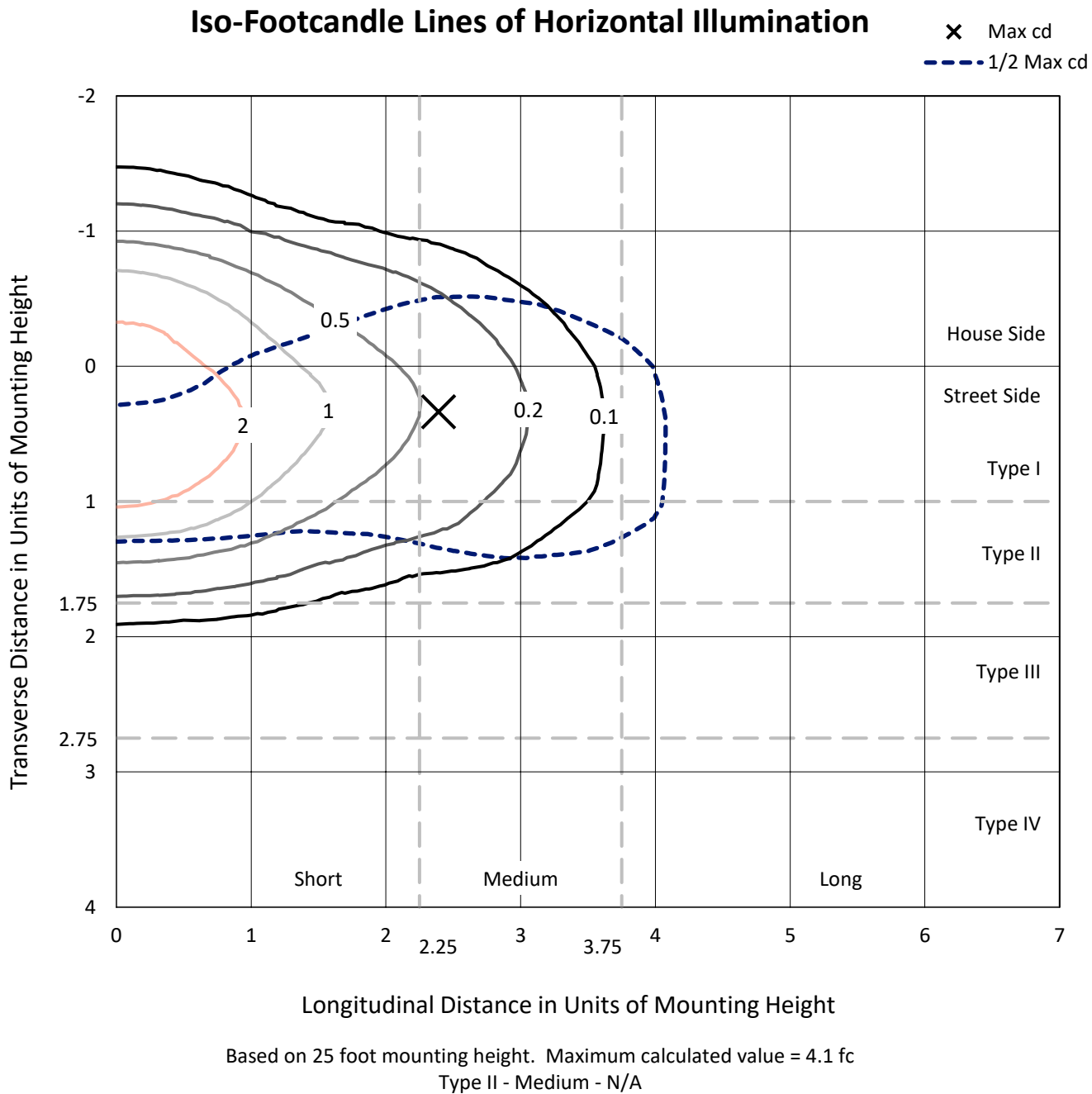
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9376 lumens
Efficiency: N/A
Efficacy: 174.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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

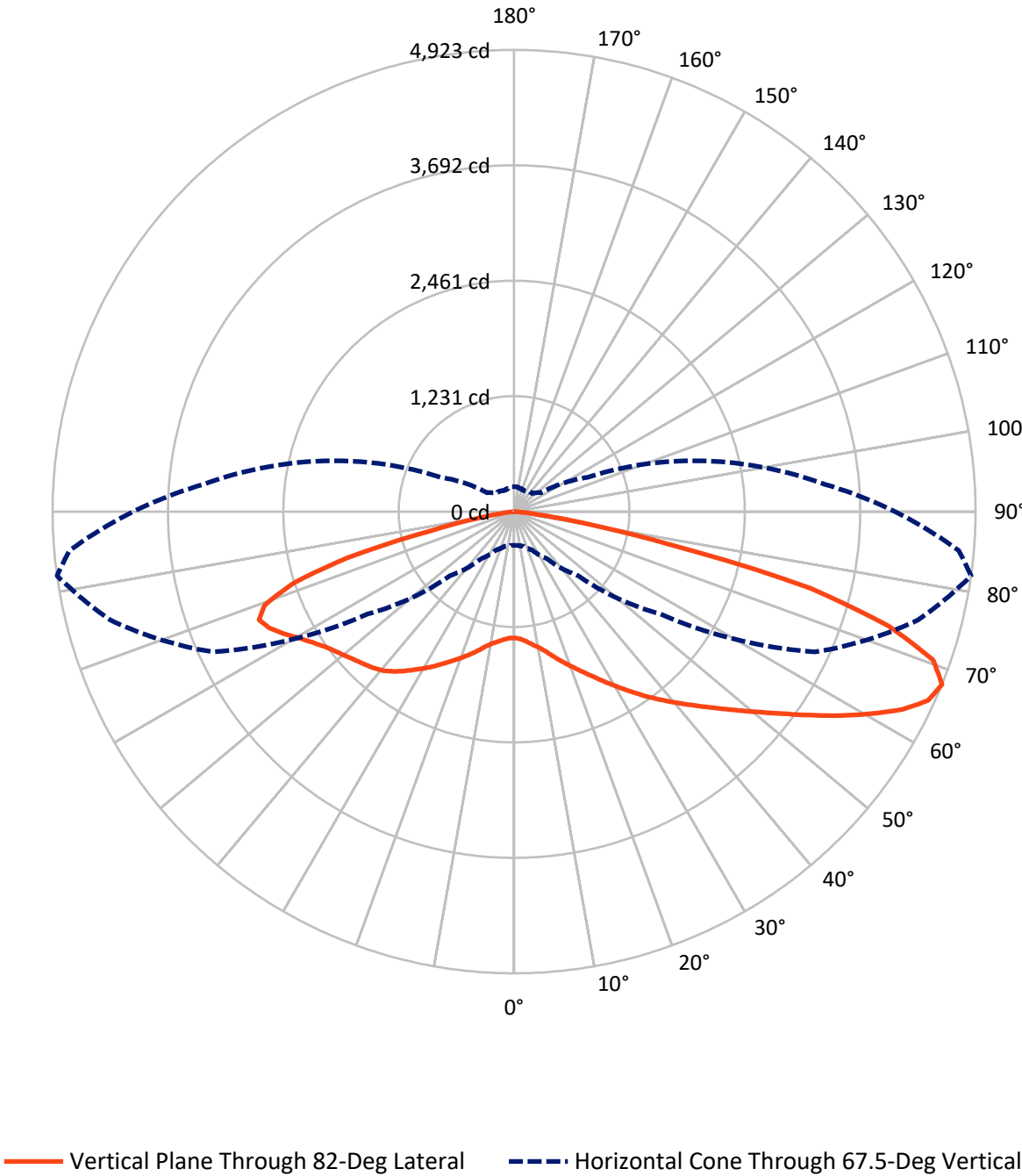


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Luminous Intensity Polar Plot



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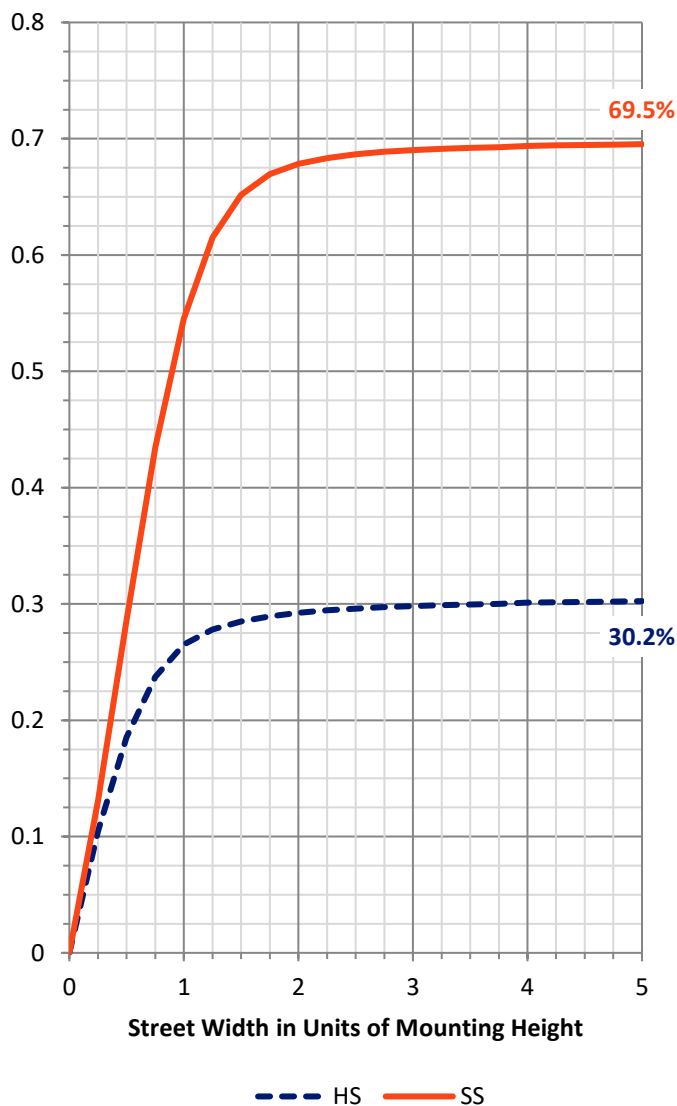
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.4	0.0	2855.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6520.6	0.0	6520.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	9376.0	0.0	9376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.5
10°-20°	501.7	5.4
20°-30°	1008.3	10.8
30°-40°	1584.0	16.9
40°-50°	1929.6	20.6
50°-60°	1823.2	19.4
60°-70°	1505.6	16.1
70°-80°	819.8	8.7
80°-90°	64.5	0.7
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°	9376.0	100.0
0°-180°	9376.0	100.0

Coefficient of Utilization



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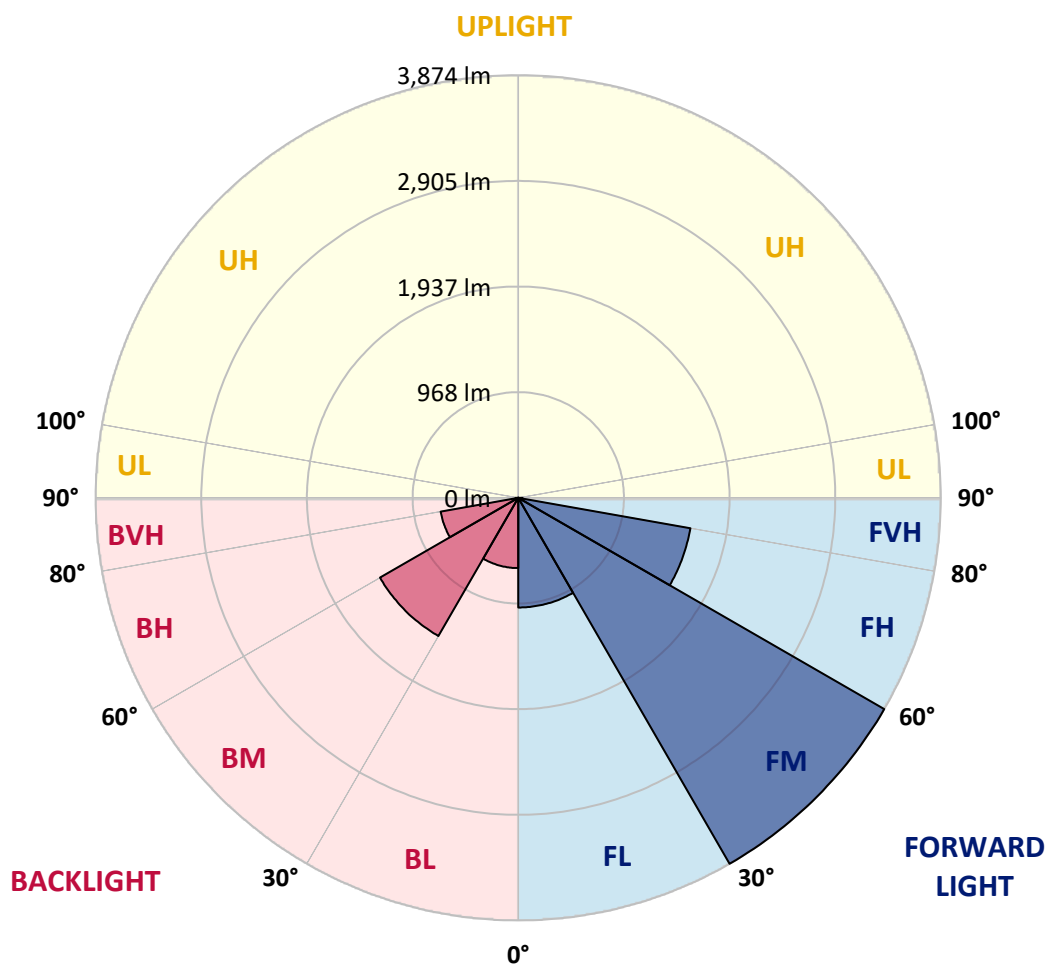
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.5	10.7			
FM	(30°-60°)	3873.6	41.3			
FH	(60°-80°)	1602.7	17.1			G1/1800
FVH	(80°-90°)	38.9	0.4			G1/100
BL	(0°-30°)	643.9	6.9	B2/1000		
BM	(30°-60°)	1463.2	15.6	B2/2500		
BH	(60°-80°)	722.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	25.6	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8
2.5°	1409.1	1409.1	1419.9	1419.9	1410.4	1395.4	1391.4	1375.0	1360.0	1360.0	1361.4
5°	1543.8	1542.5	1550.6	1539.8	1516.6	1486.7	1466.2	1430.8	1400.9	1391.4	1390.0
7.5°	1708.6	1707.2	1711.3	1693.6	1650.0	1601.0	1560.2	1503.0	1454.0	1433.6	1428.1
10°	1892.4	1891.0	1886.9	1857.0	1798.4	1722.2	1660.9	1582.0	1508.4	1475.8	1469.0
12.5°	2103.4	2100.7	2091.1	2047.6	1967.2	1869.2	1780.7	1678.6	1580.6	1535.7	1520.7
15°	2338.9	2334.8	2317.1	2264.0	2156.5	2032.6	1918.2	1787.5	1667.7	1609.2	1588.8
17.5°	2586.7	2586.7	2559.4	2480.5	2360.7	2206.8	2065.3	1899.2	1758.9	1686.8	1662.3
20°	2838.5	2837.2	2803.1	2707.8	2566.3	2389.3	2209.6	2027.1	1852.9	1765.7	1735.8
22.5°	3104.0	3101.3	3059.1	2950.2	2781.4	2581.2	2371.6	2153.7	1956.3	1851.5	1813.4
25°	3409.0	3404.9	3353.2	3219.7	3019.6	2793.6	2554.0	2302.1	2074.8	1946.8	1901.9
27.5°	3733.0	3727.5	3666.3	3511.1	3291.9	3019.6	2755.5	2473.7	2205.5	2053.0	2002.6
30°	4021.6	4017.5	3950.8	3791.5	3539.7	3244.2	2947.5	2645.2	2343.0	2166.0	2103.4
32.5°	4239.4	4239.4	4179.5	4023.0	3761.6	3459.3	3140.8	2807.2	2485.9	2287.2	2213.7
35°	4371.5	4375.6	4323.8	4198.6	3952.2	3662.2	3340.9	2997.8	2638.4	2416.5	2337.5
37.5°	4390.5	4404.2	4374.2	4289.8	4084.2	3831.0	3536.9	3181.6	2796.3	2547.2	2458.7
40°	4302.1	4311.6	4312.9	4280.3	4138.7	3952.2	3709.8	3376.3	2963.8	2684.7	2582.6
42.5°	4125.1	4131.9	4144.1	4153.7	4099.2	4005.3	3841.9	3557.4	3142.1	2824.9	2705.1
45°	3896.4	3895.0	3915.4	3956.3	3953.5	3975.3	3915.4	3722.1	3327.3	2984.2	2841.3
47.5°	3554.6	3547.8	3620.0	3712.6	3758.9	3861.0	3916.8	3851.4	3528.8	3159.8	2996.5
50°	3019.6	3012.8	3170.7	3388.5	3524.7	3679.9	3841.9	3929.0	3739.8	3357.2	3165.3
52.5°	2368.9	2362.0	2562.2	2943.4	3240.2	3466.1	3690.8	3946.7	3939.9	3577.8	3355.9
55°	1761.7	1756.2	1950.9	2363.4	2844.0	3218.4	3505.6	3900.4	4127.8	3831.0	3587.3
57.5°	1241.6	1238.9	1407.7	1749.4	2334.8	2916.1	3327.3	3810.6	4300.7	4106.0	3848.7
60°	871.3	867.2	989.7	1253.9	1765.7	2460.1	3150.3	3690.8	4430.0	4376.9	4126.4
62.5°	586.8	584.0	671.2	891.7	1253.9	1893.7	2882.1	3610.5	4503.5	4649.2	4406.9
65°	445.2	443.8	483.3	604.5	887.6	1360.0	2456.0	3600.9	4513.1	4853.4	4645.1
67.5°	359.4	360.8	382.6	452.0	614.0	966.6	1904.6	3541.0	4462.7	4922.9	4760.8
70°	294.1	294.1	303.6	349.9	453.3	652.1	1330.1	3268.7	4322.5	4741.8	4623.3
72.5°	224.6	226.0	255.9	283.2	341.7	457.4	852.2	2705.1	3991.7	4180.9	4091.0
75°	178.3	177.0	194.7	232.8	265.5	326.7	522.8	1940.0	3396.7	3267.4	3210.2
77.5°	128.0	126.6	140.2	172.9	201.5	231.4	311.8	978.9	1847.4	1697.7	1655.5
80°	87.1	84.4	96.7	119.8	133.4	136.1	152.5	375.7	806.0	759.7	750.1
82.5°	44.9	44.9	51.7	68.1	69.4	70.8	68.1	121.2	266.8	249.1	238.2
85°	17.7	17.7	19.1	23.1	23.1	24.5	24.5	31.3	28.6	27.2	25.9
87.5°	1.4	1.4	2.7	2.7	4.1	4.1	4.1	5.4	6.8	6.8	6.8
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°	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8	1347.8
2.5°	1358.7	1353.2	1335.5	1331.5	1328.7	1324.7	1326.0	1316.5	1312.4	1313.8	1308.3
5°	1383.2	1373.7	1351.9	1342.3	1339.6	1335.5	1339.6	1332.8	1326.0	1328.7	1326.0
7.5°	1417.2	1403.6	1376.4	1366.9	1365.5	1361.4	1366.9	1361.4	1356.0	1358.7	1353.2
10°	1452.6	1434.9	1405.0	1395.4	1395.4	1394.1	1399.5	1391.4	1385.9	1387.3	1384.6
12.5°	1504.4	1481.2	1448.5	1440.4	1436.3	1440.4	1441.7	1430.8	1421.3	1422.7	1418.6
15°	1567.0	1541.1	1505.7	1493.5	1490.7	1489.4	1483.9	1470.3	1458.1	1456.7	1452.6
17.5°	1635.1	1602.4	1560.2	1547.9	1535.7	1531.6	1518.0	1500.3	1481.2	1481.2	1475.8
20°	1700.4	1663.6	1613.3	1595.6	1577.9	1561.5	1538.4	1509.8	1485.3	1481.2	1475.8
22.5°	1771.2	1727.6	1669.1	1643.2	1611.9	1579.2	1539.8	1501.6	1470.3	1463.5	1459.4
25°	1850.2	1795.7	1726.3	1688.1	1637.8	1587.4	1528.9	1479.9	1443.1	1432.2	1429.5
27.5°	1937.3	1871.9	1787.5	1731.7	1658.2	1579.2	1504.4	1445.8	1400.9	1387.3	1383.2
30°	2025.8	1948.2	1843.3	1761.7	1658.2	1553.4	1459.4	1391.4	1339.6	1320.6	1317.8
32.5°	2114.3	2027.1	1893.7	1778.0	1641.9	1509.8	1400.9	1320.6	1262.0	1238.9	1244.3
35°	2220.5	2114.3	1940.0	1784.8	1614.6	1456.7	1334.2	1240.2	1180.3	1159.9	1164.0
37.5°	2330.7	2201.4	1976.8	1779.4	1576.5	1396.8	1259.3	1168.1	1093.2	1057.8	1061.9
40°	2426.0	2280.4	2002.6	1760.3	1527.5	1328.7	1185.8	1066.0	962.5	928.5	924.4
42.5°	2515.9	2338.9	2016.2	1731.7	1471.7	1249.8	1081.0	927.1	823.7	781.4	782.8
45°	2609.8	2396.1	2010.8	1693.6	1402.3	1157.2	946.2	791.0	699.8	661.6	663.0
47.5°	2717.4	2457.3	2005.4	1652.8	1317.8	1037.4	816.8	671.2	592.2	565.0	562.3
50°	2831.7	2525.4	1998.5	1602.4	1223.9	904.0	688.9	559.5	492.8	475.1	471.0
52.5°	2961.1	2598.9	1994.5	1542.5	1110.9	762.4	574.5	461.5	416.6	404.3	403.0
55°	3116.3	2684.7	1999.9	1470.3	974.8	629.0	477.9	397.5	367.6	360.8	359.4
57.5°	3305.5	2795.0	2016.2	1385.9	831.8	513.3	407.1	358.1	339.0	333.5	333.5
60°	3511.1	2920.2	2046.2	1290.6	688.9	423.4	360.8	326.7	318.6	325.4	325.4
62.5°	3733.0	3067.3	2099.3	1174.9	555.5	358.1	324.0	300.9	295.4	309.0	310.4
65°	3938.6	3210.2	2133.3	1036.0	441.1	310.4	295.4	275.0	277.7	291.3	290.0
67.5°	4065.2	3328.6	2085.7	861.8	349.9	275.0	265.5	247.8	254.6	265.5	266.8
70°	3987.6	3261.9	1850.2	650.8	273.6	239.6	232.8	221.9	227.4	241.0	246.4
72.5°	3607.7	2921.6	1439.0	439.7	220.5	201.5	204.2	198.8	205.6	217.8	230.1
75°	2928.4	2208.2	965.2	281.8	174.3	171.5	175.6	171.5	174.3	186.5	193.3
77.5°	1528.9	1076.9	480.6	175.6	129.3	133.4	140.2	141.6	149.8	152.5	155.2
80°	713.4	484.7	200.1	98.0	85.8	93.9	107.6	108.9	111.6	115.7	117.1
82.5°	232.8	145.7	92.6	53.1	49.0	53.1	69.4	83.0	84.4	92.6	92.6
85°	24.5	15.0	20.4	21.8	19.1	23.1	31.3	30.0	13.6	8.2	8.2
87.5°	6.8	5.4	6.8	6.8	5.4	5.4	4.1	1.4	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)