

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: P380926

Luminaire Tested: **USSL-PA2A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14343 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 112
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



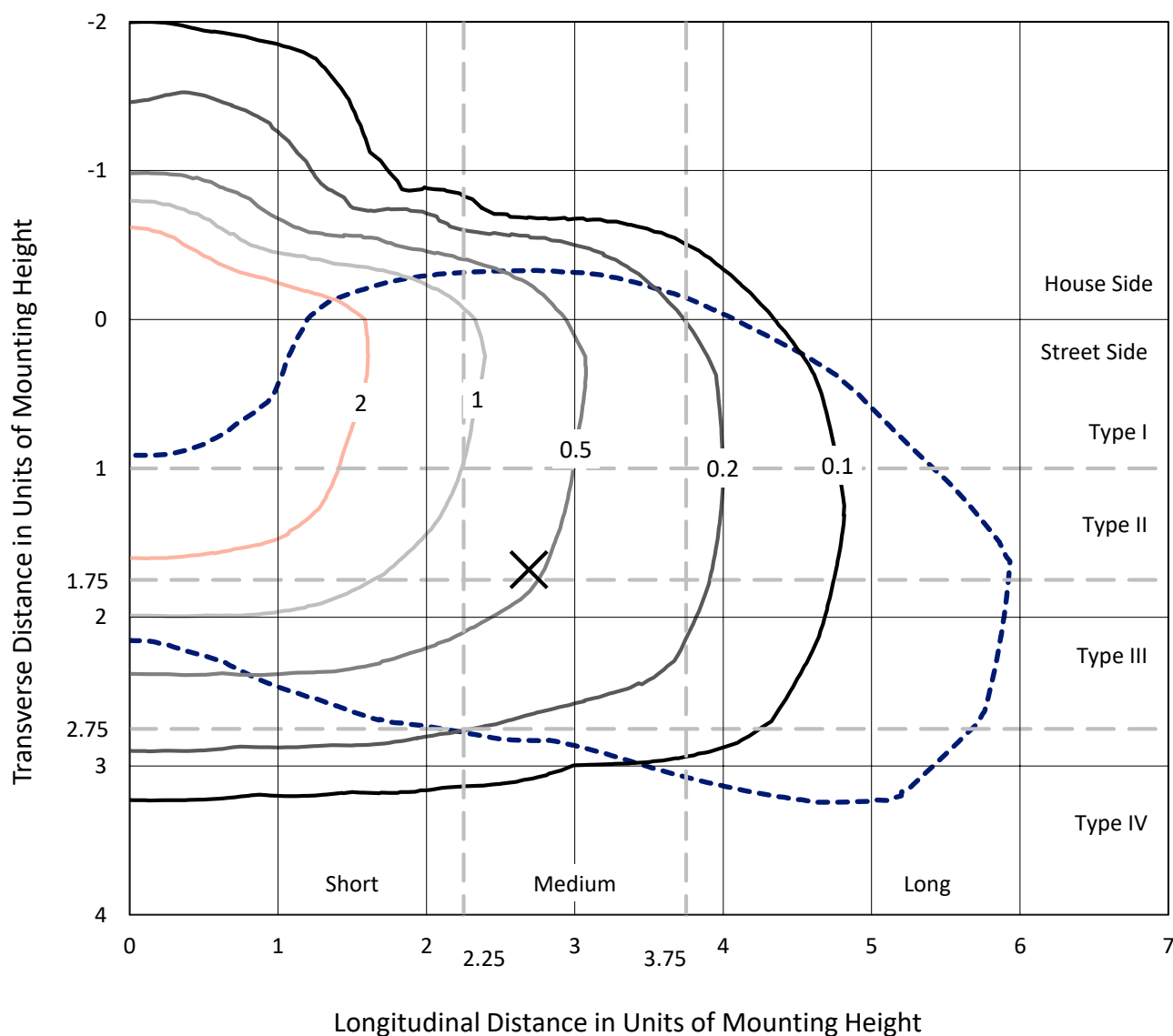
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

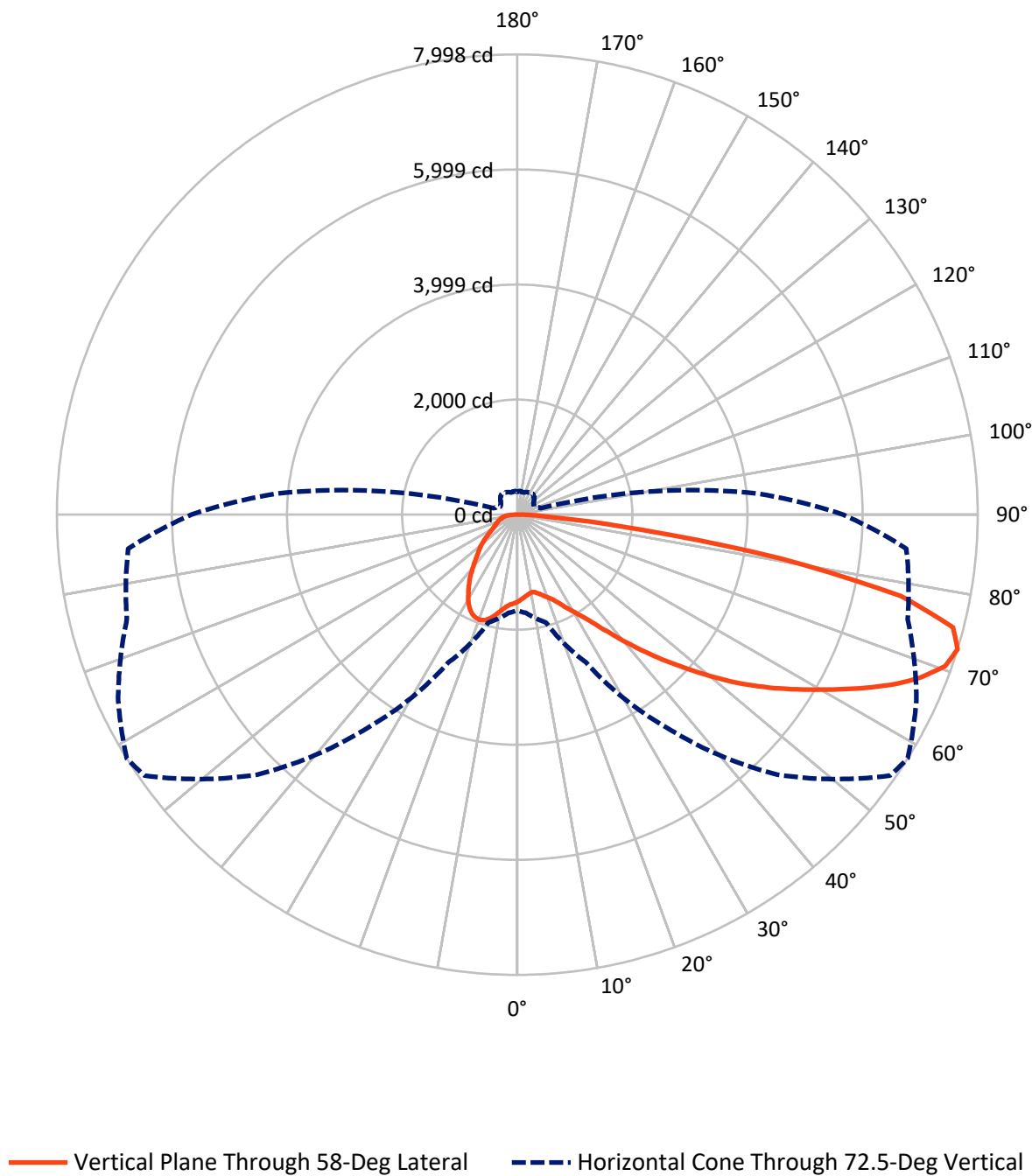


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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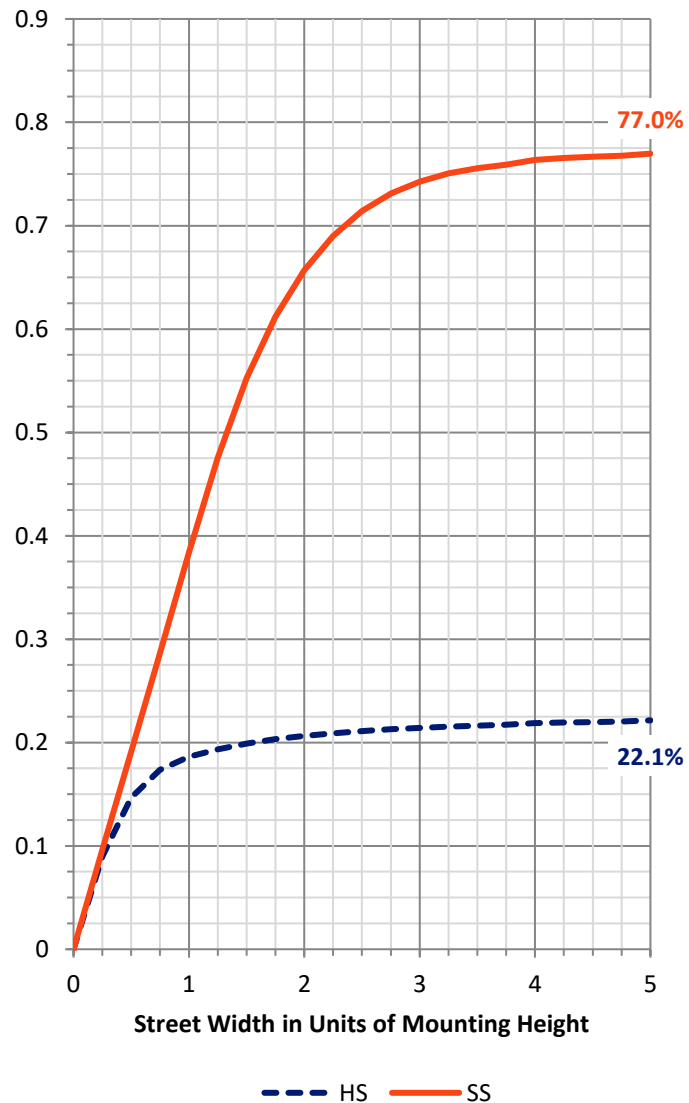
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.8	0.0	3252.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11090.2	0.0	11090.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	14343.0	0.0	14343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.0
10°-20°	462.8	3.2
20°-30°	829.1	5.8
30°-40°	1247.2	8.7
40°-50°	2019.6	14.1
50°-60°	3040.2	21.2
60°-70°	3577.9	24.9
70°-80°	2537.1	17.7
80°-90°	483.4	3.4
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°	14343.0	100.0
0°-180°	14343.0	100.0

Coefficient of Utilization



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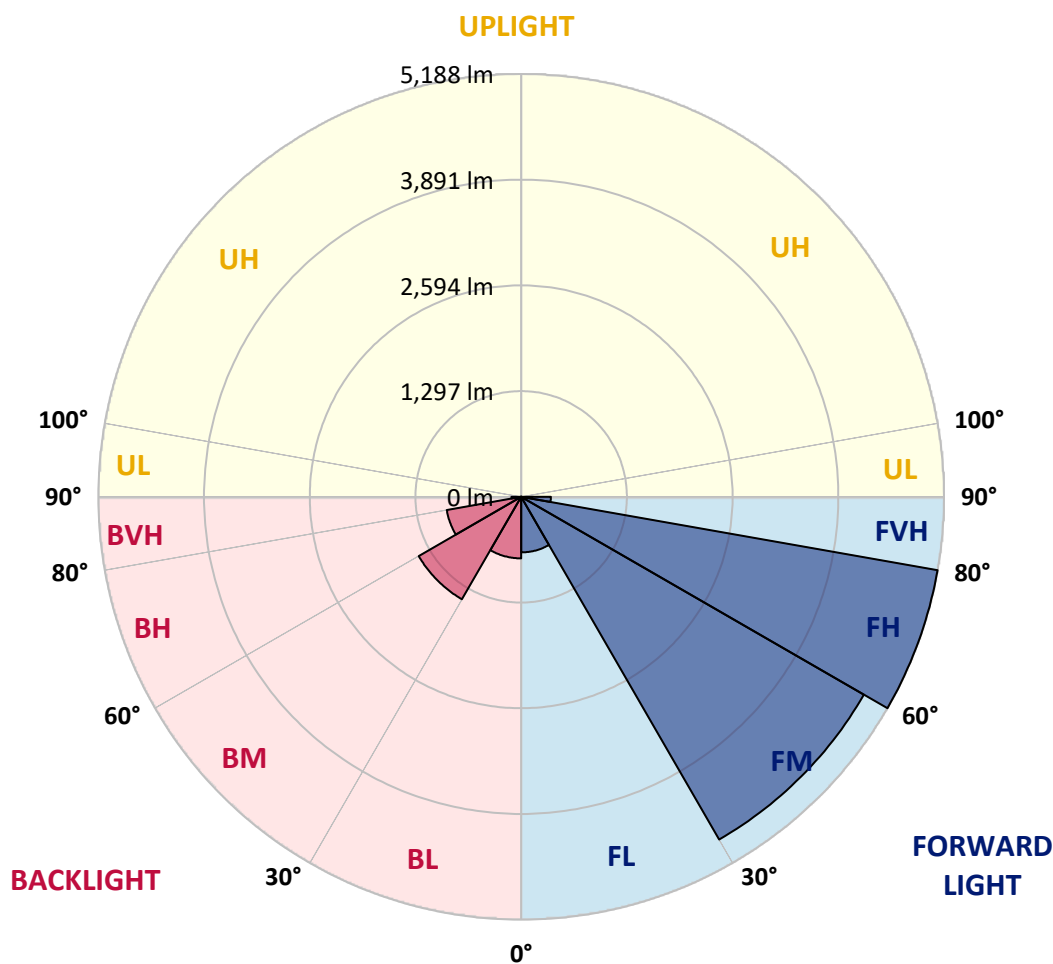
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.1	4.8			
FM	(30°-60°)	4855.5	33.9			
FH	(60°-80°)	5187.9	36.2			G3/7500
FVH	(80°-90°)	364.7	2.5			G3/500
BL	(0°-30°)	755.6	5.3	B2/1000		
BM	(30°-60°)	1451.4	10.1	B2/2500		
BH	(60°-80°)	927.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	118.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9
2.5°	1456.1	1448.5	1450.4	1450.4	1458.0	1461.8	1463.7	1469.3	1473.1	1482.6	1495.8
5°	1387.9	1382.2	1384.1	1386.0	1399.3	1412.5	1423.9	1431.5	1442.8	1458.0	1476.9
7.5°	1338.7	1334.9	1336.8	1340.6	1351.9	1367.1	1386.0	1397.4	1414.4	1442.8	1475.0
10°	1302.7	1302.7	1304.6	1312.2	1323.5	1342.5	1357.6	1370.9	1405.0	1456.1	1505.3
12.5°	1274.3	1274.3	1280.0	1295.1	1314.1	1333.0	1369.0	1384.1	1429.6	1499.6	1558.3
15°	1272.4	1274.3	1276.2	1289.5	1310.3	1351.9	1405.0	1427.7	1482.6	1565.9	1634.1
17.5°	1302.7	1304.6	1297.0	1300.8	1325.4	1384.1	1454.2	1480.7	1550.8	1641.6	1711.7
20°	1395.5	1395.5	1372.8	1351.9	1369.0	1433.4	1512.9	1539.4	1617.0	1717.4	1787.4
22.5°	1584.8	1594.3	1541.3	1495.8	1469.3	1505.3	1577.3	1605.7	1692.8	1800.7	1870.7
25°	1813.9	1823.4	1751.5	1687.1	1637.9	1632.2	1679.5	1709.8	1781.8	1893.5	1952.2
27.5°	2035.5	2018.4	1952.2	1891.6	1829.1	1778.0	1813.9	1840.5	1923.8	2009.0	2044.9
30°	2209.7	2196.4	2132.0	2088.5	2029.8	1963.5	1942.7	1971.1	2039.3	2118.8	2137.7
32.5°	2402.8	2393.3	2329.0	2272.2	2222.9	2160.4	2115.0	2128.3	2166.1	2222.9	2234.3
35°	2649.0	2669.8	2601.6	2486.1	2431.2	2370.6	2338.4	2342.2	2370.6	2406.6	2387.7
37.5°	2908.4	2933.0	2936.8	2755.0	2681.2	2626.2	2592.2	2605.4	2639.5	2664.1	2605.4
40°	3389.3	3364.7	3266.2	3131.8	3018.2	2965.2	2917.8	2915.9	2940.6	2984.1	2878.1
42.5°	4027.4	4004.7	3805.9	3631.7	3451.8	3391.2	3298.4	3258.7	3270.0	3324.9	3177.2
45°	4639.0	4629.5	4470.5	4267.9	4052.0	3934.6	3722.6	3626.0	3616.5	3660.1	3484.0
47.5°	5182.4	5140.8	5025.3	4868.1	4845.4	4538.6	4148.6	4017.9	3972.5	3997.1	3800.2
50°	5763.7	5621.7	5462.7	5366.1	5530.8	5244.9	4578.4	4442.1	4330.4	4347.4	4142.9
52.5°	6072.4	5833.8	5729.6	5758.0	5979.6	5869.8	5046.1	4879.5	4699.6	4724.2	4483.7
55°	5807.3	5805.4	5850.8	6026.9	6335.5	6208.7	5491.1	5303.6	5106.7	5112.4	4875.7
57.5°	5443.7	5517.6	5752.4	6140.5	6776.7	6564.7	5928.5	5729.6	5549.8	5521.4	5320.6
60°	5112.4	5193.8	5534.6	6121.6	6930.1	6890.3	6345.0	6170.8	6025.0	5941.7	5788.3
62.5°	4608.7	4669.3	5152.1	6000.4	6801.3	7125.1	6767.3	6648.0	6538.1	6365.8	6292.0
65°	4016.0	4036.9	4546.2	5600.9	6640.4	7216.0	7187.6	7134.6	7028.6	6774.8	6790.0
67.5°	3374.2	3415.8	3862.7	4962.8	6288.2	7174.4	7513.3	7556.8	7431.9	7051.3	7108.1
70°	2690.6	2741.7	3080.7	4080.4	5689.9	6994.5	7814.3	7884.4	7643.9	7142.2	7166.8
72.5°	1664.4	1713.6	1940.8	2834.5	4510.2	6390.5	7907.1	7998.0	7649.6	7021.0	6784.3
75°	575.6	581.3	759.3	1359.5	2677.4	4824.6	7604.2	7818.1	7409.1	6579.8	5903.8
77.5°	263.2	272.7	337.0	560.5	1187.2	2603.5	6278.7	6814.6	6678.3	5890.6	4544.3
80°	181.8	185.6	232.9	335.1	685.4	916.4	3963.0	4661.7	4900.3	4561.4	2912.2
82.5°	136.3	140.1	179.9	227.2	494.2	445.0	1509.1	2166.1	2692.5	2643.3	1217.5
85°	130.6	128.8	140.1	151.5	329.5	265.1	488.5	670.3	1050.9	899.4	306.7
87.5°	56.8	62.5	143.9	85.2	172.3	123.1	212.1	248.0	320.0	278.3	109.8
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°	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9
2.5°	1501.5	1505.3	1516.7	1533.7	1543.2	1562.1	1575.4	1582.9	1588.6	1590.5	1590.5
5°	1488.3	1495.8	1520.5	1548.9	1575.4	1615.1	1651.1	1671.9	1687.1	1692.8	1694.7
7.5°	1492.1	1511.0	1547.0	1588.6	1622.7	1673.8	1717.4	1759.0	1793.1	1806.4	1806.4
10°	1528.0	1554.5	1603.8	1658.7	1702.2	1755.2	1800.7	1836.7	1876.4	1899.1	1902.9
12.5°	1582.9	1615.1	1679.5	1740.1	1789.3	1831.0	1872.6	1899.1	1918.1	1935.1	1938.9
15°	1660.6	1700.3	1764.7	1827.2	1870.7	1897.3	1908.6	1908.6	1906.7	1908.6	1912.4
17.5°	1738.2	1776.1	1840.5	1902.9	1923.8	1908.6	1895.4	1891.6	1889.7	1885.9	1887.8
20°	1813.9	1849.9	1904.8	1952.2	1935.1	1882.1	1865.1	1863.2	1857.5	1853.7	1849.9
22.5°	1889.7	1916.2	1961.6	1978.7	1910.5	1834.8	1813.9	1802.6	1795.0	1785.5	1776.1
25°	1976.8	1984.4	2018.4	1991.9	1849.9	1747.7	1717.4	1700.3	1692.8	1683.3	1675.7
27.5°	2058.2	2058.2	2063.9	1971.1	1760.9	1632.2	1586.7	1556.4	1554.5	1552.6	1550.8
30°	2132.0	2122.6	2103.6	1908.6	1645.4	1490.2	1422.0	1391.7	1403.1	1412.5	1414.4
32.5°	2219.1	2200.2	2147.2	1823.4	1507.2	1331.1	1247.8	1234.5	1247.8	1259.2	1251.6
35°	2355.5	2321.4	2192.6	1725.0	1374.7	1185.3	1105.8	1086.9	1083.1	1081.2	1066.0
37.5°	2550.5	2491.8	2228.6	1618.9	1244.0	1056.6	997.9	958.1	922.1	884.2	878.6
40°	2789.1	2688.7	2253.2	1497.7	1105.8	948.6	886.1	835.0	774.4	708.2	700.6
42.5°	3050.4	2900.8	2264.6	1363.3	984.6	859.6	782.0	717.6	649.5	598.3	588.9
45°	3332.5	3129.9	2255.1	1234.5	886.1	783.9	696.8	626.7	571.8	535.9	528.3
47.5°	3607.1	3393.1	2228.6	1132.3	810.4	719.5	630.5	566.1	524.5	484.7	475.3
50°	3959.2	3644.9	2196.4	1052.8	727.1	655.1	588.9	520.7	473.4	454.4	450.6
52.5°	4349.3	3896.8	2158.6	952.4	645.7	604.0	562.4	501.8	486.6	450.6	445.0
55°	4771.5	4195.9	2151.0	825.6	573.7	568.0	535.9	518.8	522.6	450.6	441.2
57.5°	5216.5	4515.9	2168.0	698.7	515.0	535.9	547.2	534.0	528.3	460.1	441.2
60°	5680.4	4824.6	2116.9	581.3	469.6	509.3	560.5	526.4	484.7	456.3	443.1
62.5°	6131.1	5084.0	1895.4	498.0	435.5	501.8	552.9	498.0	450.6	450.6	445.0
65°	6458.6	5199.5	1482.6	437.4	412.8	492.3	539.6	479.0	441.2	454.4	446.9
67.5°	6496.5	5080.2	996.0	390.1	393.8	475.3	509.3	462.0	431.7	465.8	454.4
70°	6263.6	4769.6	609.7	354.1	369.2	445.0	482.8	445.0	418.5	456.3	439.3
72.5°	5659.6	4190.2	429.8	323.8	342.7	416.6	458.2	429.8	399.5	412.8	395.7
75°	4642.8	3247.3	340.8	295.4	316.2	390.1	437.4	407.1	376.8	371.1	359.8
77.5°	3289.0	2080.9	274.6	272.7	287.8	357.9	409.0	380.6	350.3	338.9	331.4
80°	1891.6	1020.6	236.7	246.2	261.3	325.7	374.9	350.3	321.9	304.8	293.5
82.5°	723.3	356.0	208.3	214.0	231.0	291.6	340.8	320.0	291.6	306.7	257.5
85°	234.8	195.0	170.4	176.1	193.1	242.4	301.1	284.0	251.8	223.4	206.4
87.5°	104.1	106.0	90.9	100.4	121.2	160.9	219.6	208.3	183.7	153.4	147.7
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)