

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: P842536

Luminaire Tested: **ARCH4-60-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11102 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

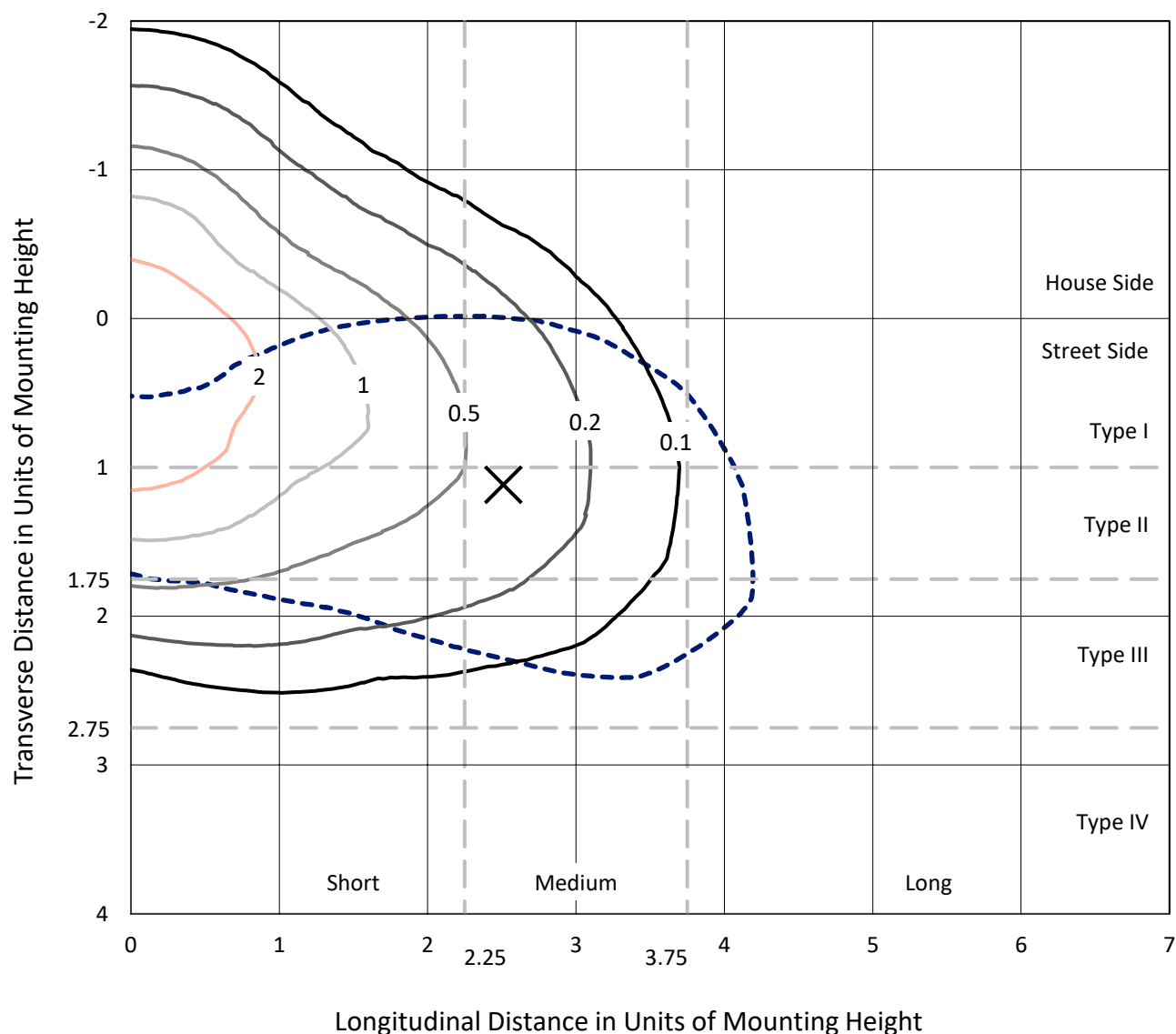
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

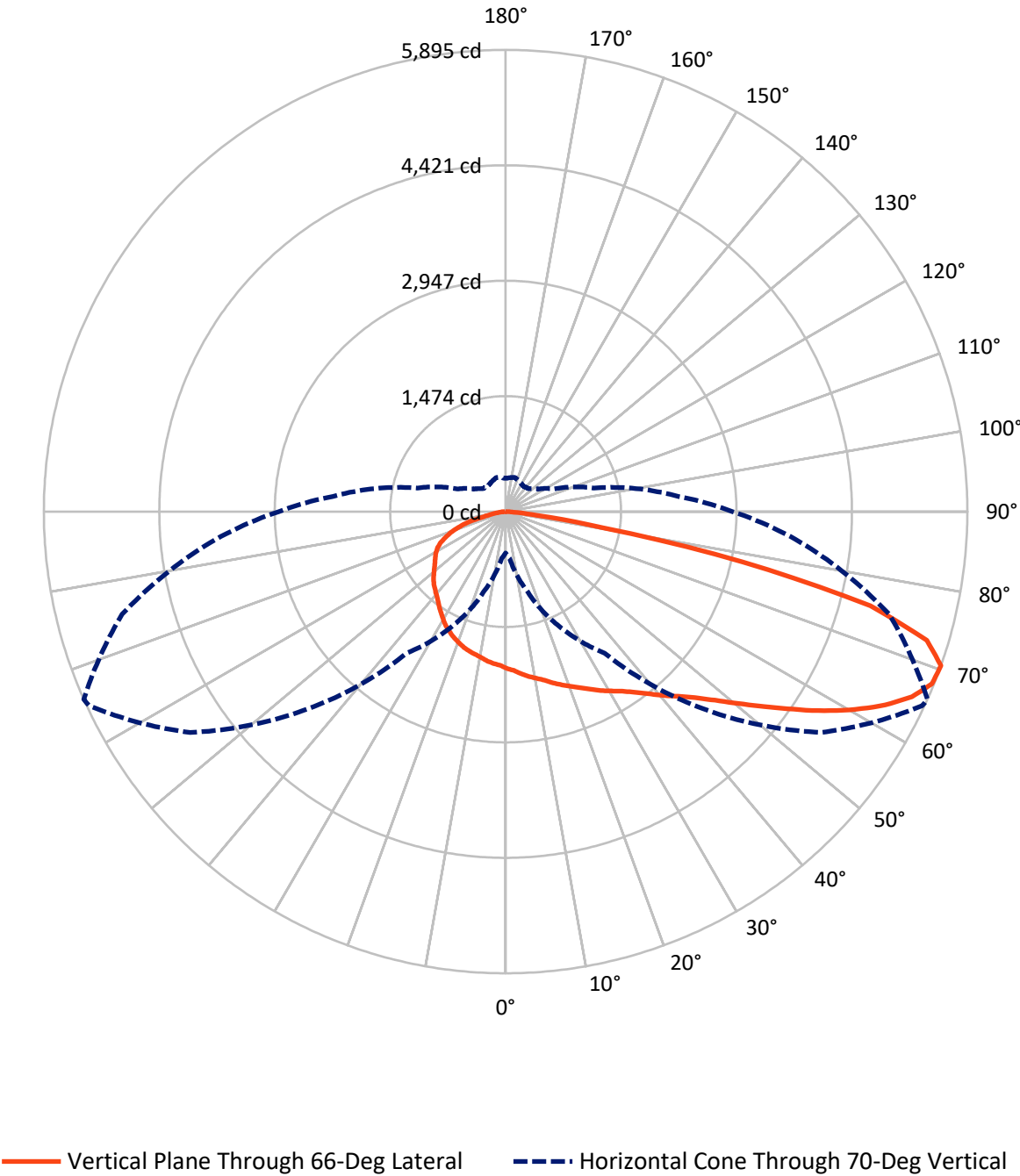
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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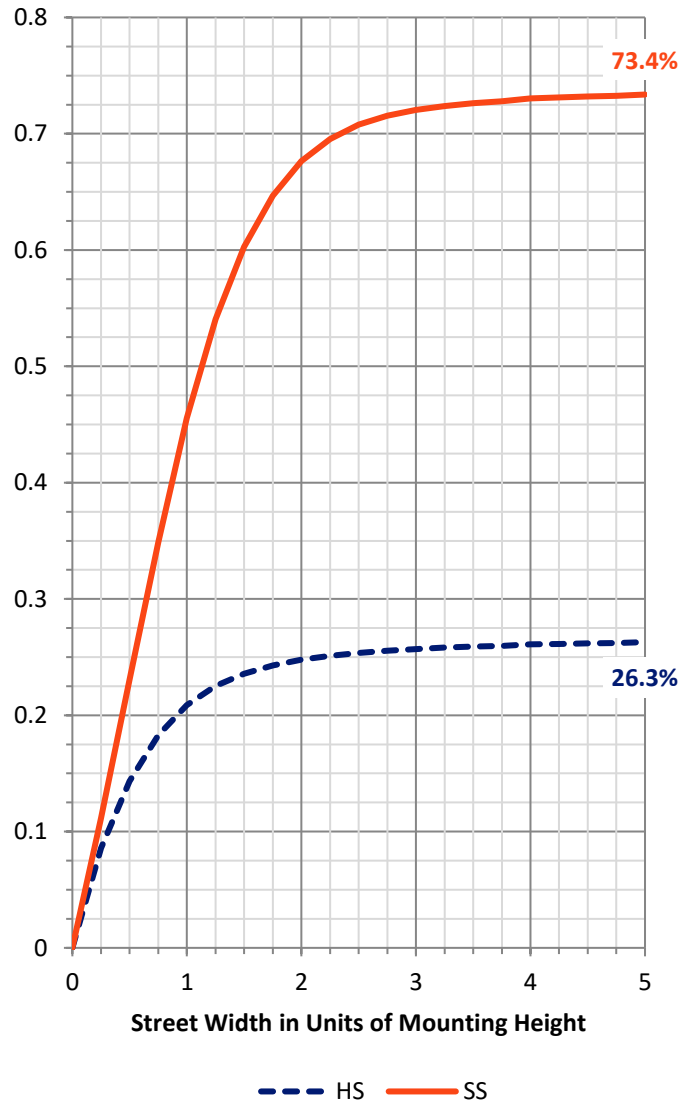
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2941.8	0.0	2941.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8160.2	0.0	8160.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	11102.0	0.0	11102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	1.7
10°-20°	577.5	5.2
20°-30°	968.1	8.7
30°-40°	1449.6	13.1
40°-50°	1938.1	17.5
50°-60°	2262.8	20.4
60°-70°	2250.0	20.3
70°-80°	1332.0	12.0
80°-90°	131.3	1.2
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°	11102.0	100.0
0°-180°	11102.0	100.0

Coefficient of Utilization



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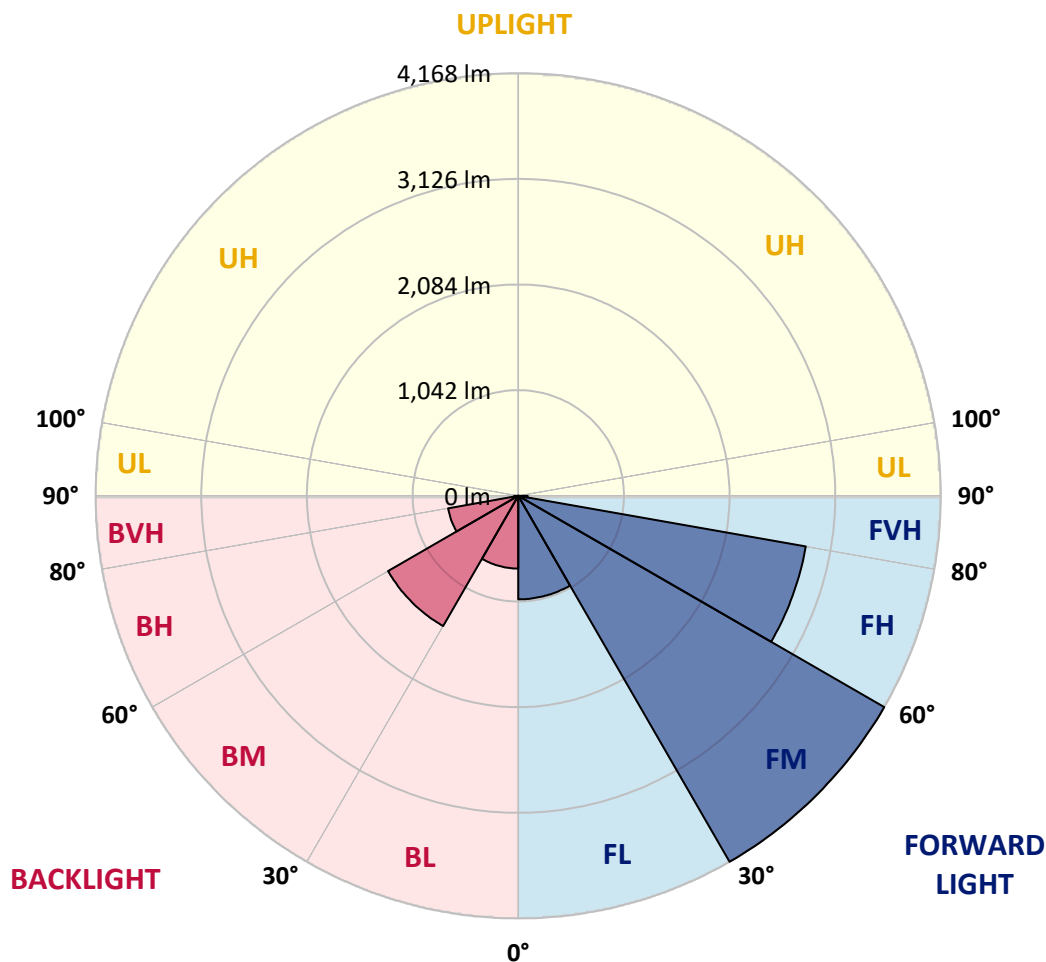
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1021.1	9.2			
FM	(30°-60°)	4167.5	37.5			
FH	(60°-80°)	2879.3	25.9			G2/5000
FVH	(80°-90°)	92.3	0.8			G1/100
BL	(0°-30°)	717.1	6.5	B2/1000		
BM	(30°-60°)	1483.0	13.4	B2/2500		
BH	(60°-80°)	702.7	6.3	B2/1000		G2/1000
BVH	(80°-90°)	39.0	0.4			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°	66°	75°	85°
0°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	2077.3	2074.0	2072.4	2065.9	2051.1	2057.7	2042.9	2033.1	2031.5	2008.6	1995.5
5°	2162.4	2160.8	2157.5	2147.7	2124.8	2128.1	2103.5	2085.5	2080.6	2044.6	2016.8
7.5°	2234.5	2231.2	2229.6	2216.5	2191.9	2190.3	2160.8	2134.6	2126.4	2077.3	2034.8
10°	2290.1	2285.2	2288.5	2275.4	2249.2	2244.3	2206.6	2172.3	2164.1	2101.9	2042.9
12.5°	2337.6	2334.3	2339.2	2327.8	2306.5	2301.6	2263.9	2219.7	2209.9	2137.9	2061.0
15°	2390.0	2378.5	2388.3	2383.4	2368.7	2367.1	2332.7	2283.6	2270.5	2183.7	2088.8
17.5°	2417.8	2411.3	2422.7	2424.4	2417.8	2429.3	2396.5	2337.6	2326.1	2226.3	2113.3
20°	2437.5	2427.6	2440.7	2450.6	2455.5	2478.4	2452.2	2394.9	2381.8	2267.2	2136.3
22.5°	2504.6	2483.3	2484.9	2491.5	2494.8	2527.5	2511.1	2455.5	2442.4	2318.0	2164.1
25°	2673.2	2630.6	2602.8	2583.1	2560.2	2588.1	2578.2	2524.2	2512.8	2378.5	2198.5
27.5°	2935.1	2881.1	2825.4	2768.1	2678.1	2666.6	2650.3	2601.2	2588.1	2439.1	2232.8
30°	3233.0	3179.0	3113.5	3021.9	2853.2	2764.9	2727.2	2673.2	2658.4	2493.1	2265.6
32.5°	3529.3	3481.8	3416.4	3305.1	3064.4	2884.4	2804.1	2748.5	2733.7	2552.0	2304.9
35°	3760.1	3730.7	3688.1	3549.0	3274.0	3025.1	2915.5	2848.3	2832.0	2645.4	2376.9
37.5°	3946.7	3925.5	3889.5	3743.8	3426.2	3165.9	3043.1	2966.2	2948.2	2746.8	2453.8
40°	4221.8	4166.1	4136.6	3925.5	3558.8	3293.6	3187.2	3107.0	3087.3	2854.9	2516.0
42.5°	4455.8	4414.9	4378.9	4087.5	3684.8	3403.3	3323.1	3249.4	3223.2	2961.3	2583.1
45°	4495.1	4511.5	4493.5	4167.7	3884.5	3511.3	3460.6	3413.1	3388.5	3105.3	2684.6
47.5°	4496.8	4496.8	4390.4	4213.6	4131.7	3632.4	3607.9	3624.3	3598.1	3288.7	2805.8
50°	4378.9	4400.2	4344.5	4225.0	4197.2	3753.6	3788.0	3876.4	3850.2	3483.5	2936.7
52.5°	4135.0	4205.4	4203.8	4207.0	4102.3	3856.7	3977.9	4179.2	4135.0	3702.8	3075.9
55°	3704.5	3845.3	3971.3	4079.3	4020.4	3918.9	4210.3	4501.7	4455.8	3948.4	3216.7
57.5°	3336.2	3426.2	3583.3	3889.5	3923.8	3972.9	4428.0	4838.9	4798.0	4220.1	3364.0
60°	2915.5	3039.9	3197.0	3632.4	3806.0	4043.3	4667.0	5167.9	5128.6	4495.1	3506.4
62.5°	2268.8	2429.3	2743.6	3237.9	3634.1	4087.5	4855.3	5457.7	5439.7	4755.4	3634.1
65°	1581.3	1723.7	2164.1	2753.4	3360.7	4067.9	5005.9	5716.3	5699.9	4968.2	3724.1
67.5°	923.3	1088.6	1586.2	2216.5	2877.8	3932.0	5055.0	5868.6	5868.6	5097.5	3748.7
70°	527.1	604.0	1046.0	1615.7	2206.6	3557.1	4917.5	5866.9	5894.7	5068.1	3647.2
72.5°	368.3	402.7	703.9	1087.0	1496.2	2877.8	4557.3	5583.7	5621.4	4789.8	3300.1
75°	286.5	311.0	496.0	741.5	942.9	1954.5	3770.0	4707.9	4807.8	4082.6	2668.3
77.5°	217.7	235.7	289.7	463.3	604.0	1123.0	2488.2	3087.3	3093.9	2499.7	1430.7
80°	158.8	176.8	193.2	283.2	320.8	525.5	939.6	1289.9	1253.9	1209.7	774.3
82.5°	94.9	113.0	117.9	153.9	157.1	224.3	329.0	415.8	399.4	532.0	363.4
85°	40.9	57.3	60.6	70.4	67.1	91.7	131.0	109.7	98.2	113.0	78.6
87.5°	9.8	16.4	16.4	18.0	14.7	22.9	24.6	18.0	16.4	19.6	19.6
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°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	1992.2	1987.3	1988.9	1961.1	1952.9	1944.7	1939.8	1936.5	1933.3	1938.2	1943.1
5°	2006.9	1995.5	1982.4	1941.5	1925.1	1907.1	1894.0	1882.5	1877.6	1877.6	1882.5
7.5°	2018.4	1998.7	1970.9	1916.9	1887.4	1862.9	1841.6	1826.9	1818.7	1818.7	1823.6
10°	2020.0	1992.2	1948.0	1882.5	1843.2	1807.2	1782.7	1766.3	1754.8	1754.8	1758.1
12.5°	2029.8	1992.2	1934.9	1856.3	1807.2	1763.0	1733.6	1709.0	1704.1	1704.1	1707.4
15°	2046.2	2000.4	1926.7	1833.4	1774.5	1723.7	1691.0	1664.8	1655.0	1661.5	1663.2
17.5°	2061.0	2005.3	1912.0	1803.9	1733.6	1677.9	1641.9	1619.0	1605.9	1620.6	1620.6
20°	2070.8	2005.3	1890.7	1766.3	1689.4	1627.2	1592.8	1564.9	1555.1	1573.1	1574.8
22.5°	2085.5	2003.7	1867.8	1728.6	1641.9	1576.4	1542.0	1520.8	1515.8	1535.5	1542.0
25°	2101.9	2006.9	1843.2	1686.1	1589.5	1525.7	1499.5	1489.6	1492.9	1517.5	1525.7
27.5°	2119.9	2013.5	1818.7	1638.6	1532.2	1474.9	1460.2	1465.1	1478.2	1509.3	1519.1
30°	2136.3	2015.1	1784.3	1583.0	1466.7	1412.7	1419.3	1440.5	1460.2	1491.3	1502.7
32.5°	2157.5	2016.8	1748.3	1522.4	1396.3	1357.1	1386.5	1420.9	1440.5	1470.0	1483.1
35°	2209.9	2044.6	1720.5	1463.5	1330.9	1309.6	1358.7	1402.9	1414.3	1440.5	1452.0
37.5°	2270.5	2090.4	1705.7	1402.9	1267.0	1262.1	1324.3	1368.5	1371.8	1388.2	1399.6
40°	2308.1	2110.1	1689.4	1352.1	1209.7	1213.0	1276.8	1311.2	1304.7	1316.1	1324.3
42.5°	2345.8	2116.6	1655.0	1309.6	1155.7	1159.0	1208.1	1232.6	1235.9	1260.5	1271.9
45°	2409.6	2134.6	1617.3	1270.3	1106.6	1095.1	1124.6	1157.3	1199.9	1247.4	1260.5
47.5°	2494.8	2172.3	1578.0	1222.8	1059.1	1021.5	1032.9	1090.2	1134.4	1178.6	1186.8
50°	2581.5	2209.9	1542.0	1165.5	1011.7	942.9	947.8	1000.2	1036.2	1070.6	1075.5
52.5°	2666.6	2242.7	1510.9	1111.5	957.6	849.6	869.2	923.3	947.8	964.2	969.1
55°	2751.8	2270.5	1483.1	1065.7	895.4	775.9	793.9	844.7	869.2	877.4	880.7
57.5°	2840.2	2303.2	1461.8	1026.4	825.0	710.4	721.9	757.9	780.8	790.7	787.4
60°	2913.8	2331.1	1450.4	985.5	754.6	649.9	646.6	679.3	712.1	721.9	718.6
62.5°	2971.1	2349.1	1432.4	933.1	692.4	589.3	572.9	615.5	649.9	656.4	661.3
65°	3002.2	2350.7	1388.2	866.0	628.6	523.8	512.4	554.9	576.2	582.8	582.8
67.5°	2997.3	2324.5	1301.4	775.9	569.7	464.9	455.1	481.3	512.4	517.3	512.4
70°	2895.8	2216.5	1162.3	681.0	499.3	412.5	394.5	420.7	450.2	432.2	424.0
72.5°	2607.7	1936.5	957.6	576.2	420.7	347.0	338.9	365.0	366.7	370.0	361.8
75°	2057.7	1442.2	717.0	448.5	340.5	291.4	289.7	284.8	291.4	304.5	294.7
77.5°	1080.4	720.3	388.0	275.0	247.2	234.1	222.6	221.0	240.6	248.8	239.0
80°	586.0	404.3	222.6	165.3	150.6	152.2	167.0	163.7	185.0	189.9	181.7
82.5°	255.4	191.5	109.7	99.9	99.9	98.2	103.1	114.6	137.5	137.5	109.7
85°	55.7	47.5	42.6	49.1	55.7	55.7	55.7	55.7	39.3	21.3	14.7
87.5°	18.0	18.0	18.0	19.6	21.3	21.3	18.0	13.1	8.2	1.6	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)