

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: P799939

Luminaire Tested: **ARCH2-60-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

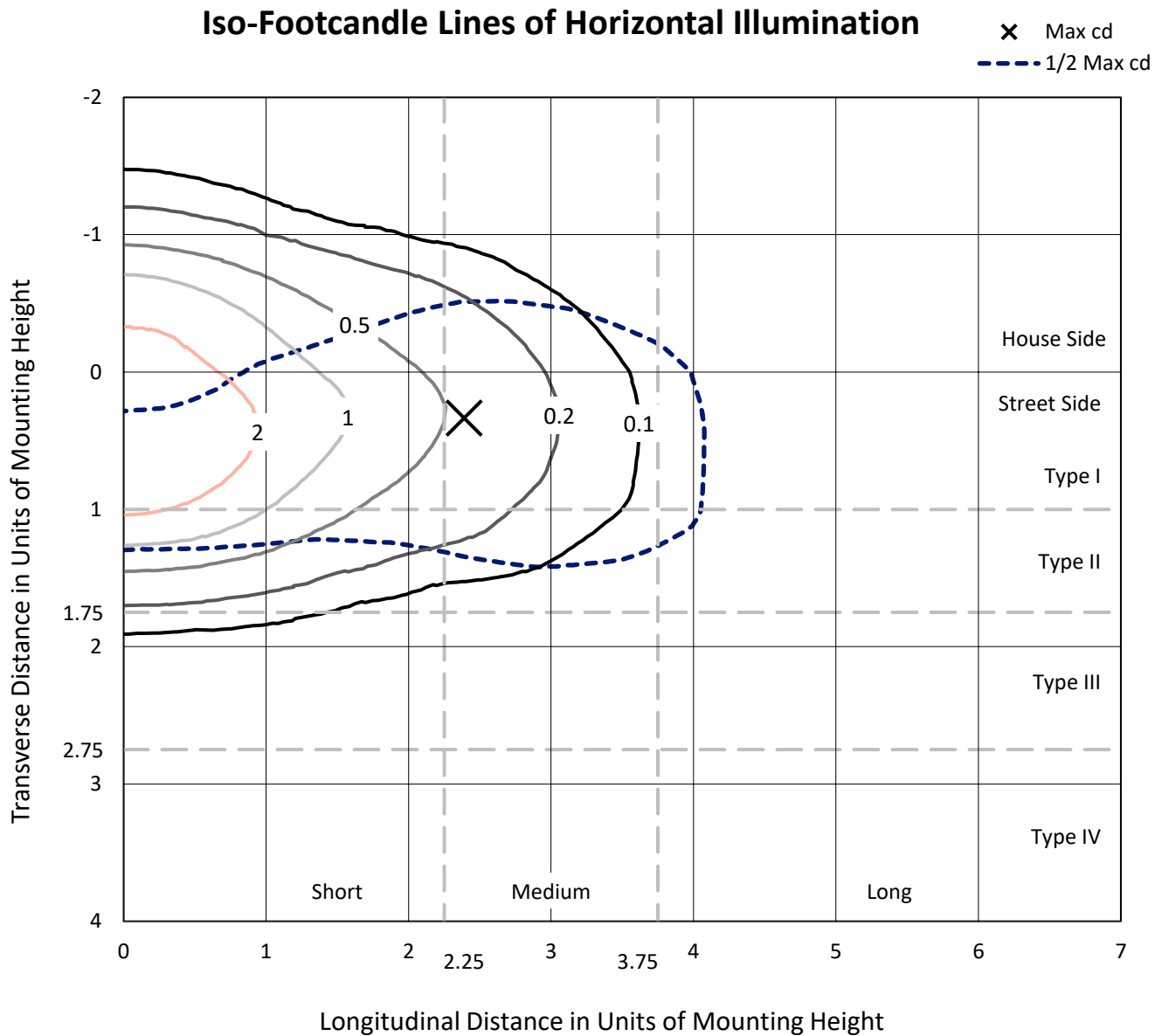
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9384 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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

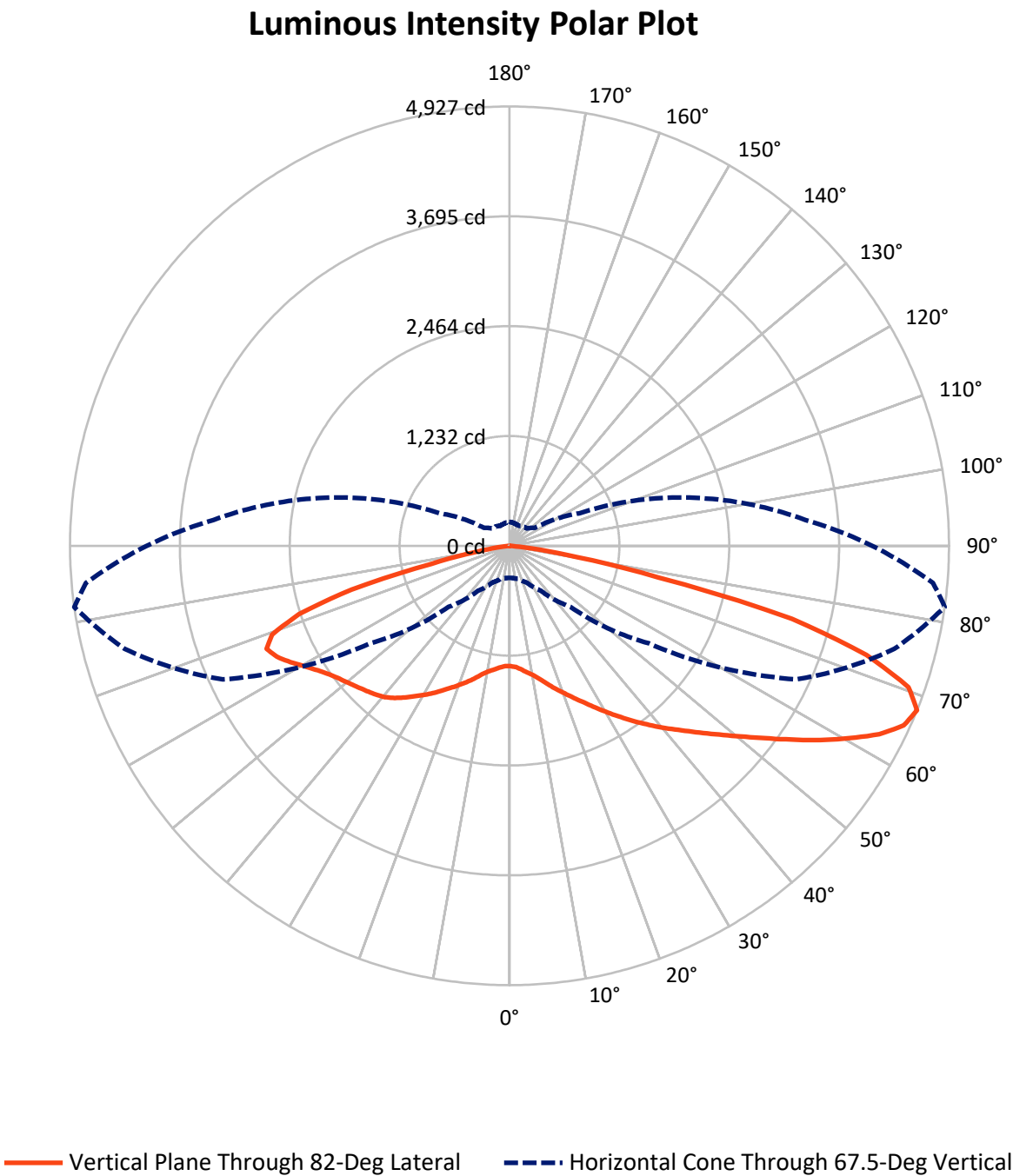


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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Medium - N/A

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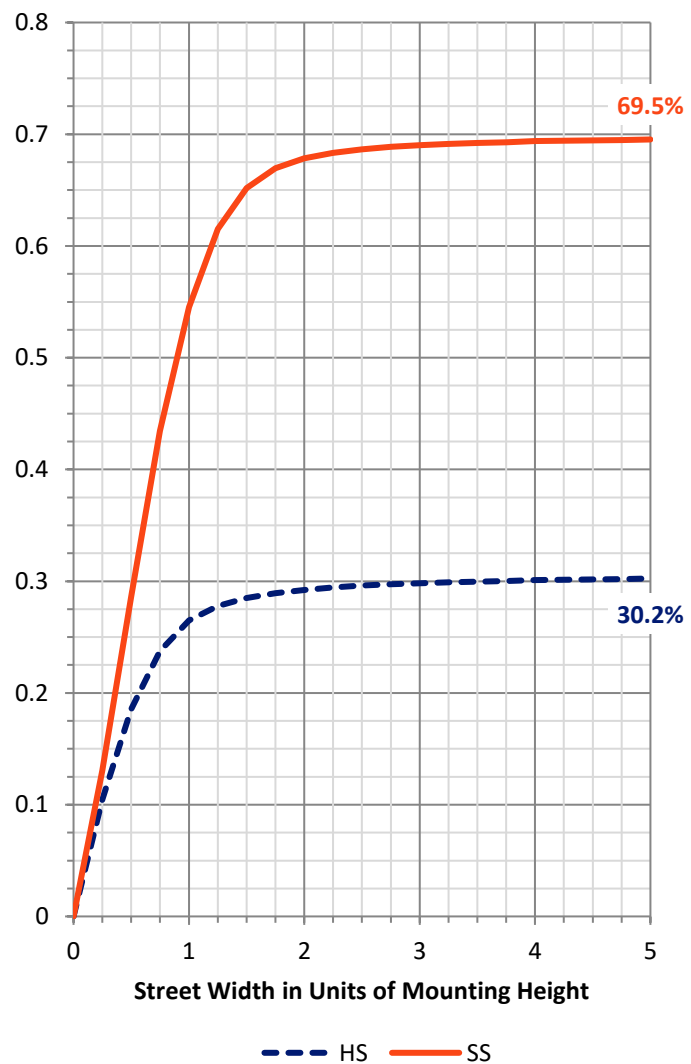
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2857.8	0.0	2857.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6526.2	0.0	6526.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	9384.0	0.0	9384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.5
10°-20°	502.1	5.4
20°-30°	1009.2	10.8
30°-40°	1585.3	16.9
40°-50°	1931.2	20.6
50°-60°	1824.8	19.4
60°-70°	1506.8	16.1
70°-80°	820.5	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°	9384.0	100.0
0°-180°	9384.0	100.0

Coefficient of Utilization



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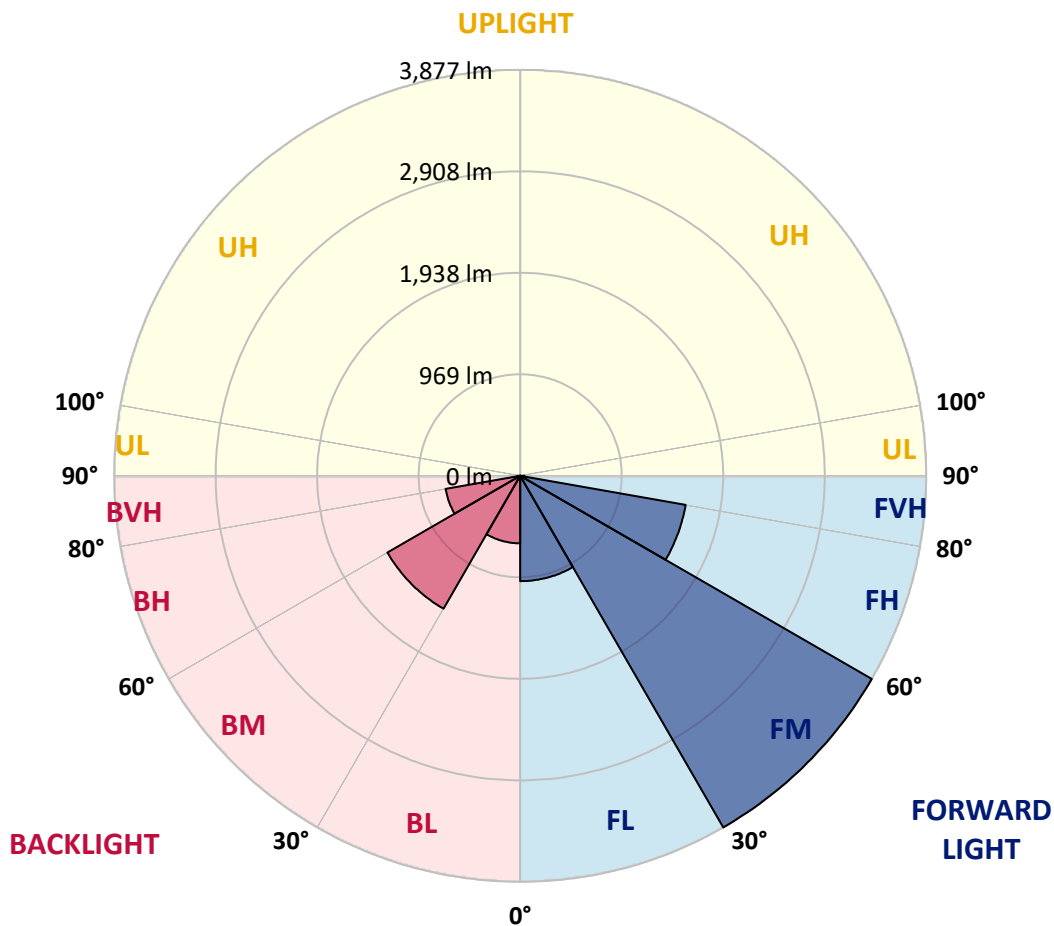
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.3	10.7			
FM	(30°-60°)	3876.9	41.3			
FH	(60°-80°)	1604.1	17.1			G1/1800
FVH	(80°-90°)	38.9	0.4			G1/100
BL	(0°-30°)	644.5	6.9	B2/1000		
BM	(30°-60°)	1464.4	15.6	B2/2500		
BH	(60°-80°)	723.3	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°	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9
2.5°	1410.3	1410.3	1421.2	1421.2	1411.6	1396.6	1392.5	1376.2	1361.2	1361.2	1362.6
5°	1545.2	1543.8	1552.0	1541.1	1517.9	1487.9	1467.5	1432.1	1402.1	1392.5	1391.2
7.5°	1710.0	1708.7	1712.8	1695.0	1651.4	1602.4	1561.5	1504.3	1455.2	1434.8	1429.3
10°	1894.0	1892.6	1888.5	1858.5	1800.0	1723.7	1662.3	1583.3	1509.7	1477.0	1470.2
12.5°	2105.2	2102.4	2092.9	2049.3	1968.9	1870.8	1782.2	1680.0	1581.9	1537.0	1522.0
15°	2340.9	2336.8	2319.1	2266.0	2158.3	2034.3	1919.9	1789.1	1669.1	1610.6	1590.1
17.5°	2588.9	2588.9	2561.6	2482.6	2362.7	2208.7	2067.0	1900.8	1760.4	1688.2	1663.7
20°	2841.0	2839.6	2805.5	2710.2	2568.4	2391.3	2211.5	2028.9	1854.5	1767.3	1737.3
22.5°	3106.7	3103.9	3061.7	2952.7	2783.7	2583.4	2373.6	2155.6	1958.0	1853.1	1814.9
25°	3411.9	3407.8	3356.0	3222.5	3022.2	2796.0	2556.2	2304.1	2076.6	1948.5	1903.5
27.5°	3736.2	3730.7	3669.4	3514.1	3294.7	3022.2	2757.8	2475.8	2207.4	2054.8	2004.3
30°	4025.0	4020.9	3954.2	3794.8	3542.7	3247.0	2950.0	2647.5	2345.0	2167.9	2105.2
32.5°	4243.0	4243.0	4183.1	4026.4	3764.8	3462.3	3143.5	2809.6	2488.1	2289.1	2215.5
35°	4375.2	4379.3	4327.5	4202.2	3955.5	3665.3	3343.7	3000.4	2640.7	2418.6	2339.5
37.5°	4394.3	4407.9	4377.9	4293.5	4087.7	3834.3	3540.0	3184.3	2798.7	2549.4	2460.8
40°	4305.7	4315.3	4316.6	4283.9	4142.2	3955.5	3713.0	3379.2	2966.3	2687.0	2584.8
42.5°	4128.6	4135.4	4147.7	4157.2	4102.7	4008.7	3845.2	3560.4	3144.8	2827.3	2707.4
45°	3899.7	3898.3	3918.8	3959.6	3956.9	3978.7	3918.8	3725.3	3330.1	2986.8	2843.7
47.5°	3557.7	3550.9	3623.1	3715.7	3762.1	3864.3	3920.1	3854.7	3531.8	3162.5	2999.0
50°	3022.2	3015.4	3173.4	3391.4	3527.7	3683.0	3845.2	3932.4	3743.0	3360.1	3168.0
52.5°	2370.9	2364.1	2564.4	2945.9	3242.9	3469.1	3693.9	3950.1	3943.3	3580.8	3358.7
55°	1763.2	1757.7	1952.6	2365.4	2846.4	3221.1	3508.6	3903.8	4131.3	3834.3	3590.4
57.5°	1242.7	1239.9	1408.9	1750.9	2336.8	2918.6	3330.1	3813.8	4304.4	4109.5	3852.0
60°	872.0	868.0	990.6	1254.9	1767.3	2462.2	3153.0	3693.9	4433.8	4380.7	4130.0
62.5°	587.3	584.5	671.7	892.5	1254.9	1895.3	2884.6	3613.5	4507.4	4653.2	4410.6
65°	445.6	444.2	483.7	605.0	888.4	1361.2	2458.1	3604.0	4516.9	4857.6	4649.1
67.5°	359.7	361.1	382.9	452.4	614.5	967.4	1906.2	3544.0	4466.5	4927.1	4764.9
70°	294.3	294.3	303.9	350.2	453.7	652.7	1331.2	3271.5	4326.2	4745.8	4627.3
72.5°	224.8	226.2	256.2	283.4	342.0	457.8	853.0	2707.4	3995.1	4184.5	4094.5
75°	178.5	177.1	194.8	233.0	265.7	327.0	523.2	1941.7	3399.6	3270.2	3212.9
77.5°	128.1	126.7	140.3	173.0	201.7	231.6	312.0	979.7	1849.0	1699.1	1656.9
80°	87.2	84.5	96.7	119.9	133.5	136.3	152.6	376.1	806.6	760.3	750.8
82.5°	45.0	45.0	51.8	68.1	69.5	70.9	68.1	121.3	267.1	249.4	238.4
85°	17.7	17.7	19.1	23.2	23.2	24.5	24.5	31.3	28.6	27.3	25.9
87.5°	1.4	1.4	2.7	2.7	4.1	4.1	4.1	5.5	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°	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9	1348.9
2.5°	1359.8	1354.4	1336.7	1332.6	1329.9	1325.8	1327.1	1317.6	1313.5	1314.9	1309.4
5°	1384.4	1374.8	1353.0	1343.5	1340.8	1336.7	1340.8	1334.0	1327.1	1329.9	1327.1
7.5°	1418.4	1404.8	1377.6	1368.0	1366.7	1362.6	1368.0	1362.6	1357.1	1359.8	1354.4
10°	1453.9	1436.1	1406.2	1396.6	1396.6	1395.3	1400.7	1392.5	1387.1	1388.5	1385.7
12.5°	1505.6	1482.5	1449.8	1441.6	1437.5	1441.6	1443.0	1432.1	1422.5	1423.9	1419.8
15°	1568.3	1542.4	1507.0	1494.7	1492.0	1490.7	1485.2	1471.6	1459.3	1458.0	1453.9
17.5°	1636.4	1603.7	1561.5	1549.2	1537.0	1532.9	1519.3	1501.6	1482.5	1482.5	1477.0
20°	1701.9	1665.1	1614.6	1596.9	1579.2	1562.9	1539.7	1511.1	1486.6	1482.5	1477.0
22.5°	1772.7	1729.1	1670.5	1644.6	1613.3	1580.6	1541.1	1502.9	1471.6	1464.8	1460.7
25°	1851.7	1797.2	1727.7	1689.6	1639.2	1588.8	1530.2	1481.1	1444.3	1433.4	1430.7
27.5°	1938.9	1873.5	1789.1	1733.2	1659.6	1580.6	1505.6	1447.1	1402.1	1388.5	1384.4
30°	2027.5	1949.8	1844.9	1763.2	1659.6	1554.7	1460.7	1392.5	1340.8	1321.7	1319.0
32.5°	2116.1	2028.9	1895.3	1779.5	1643.3	1511.1	1402.1	1321.7	1263.1	1239.9	1245.4
35°	2222.4	2116.1	1941.7	1786.3	1616.0	1458.0	1335.3	1241.3	1181.3	1160.9	1165.0
37.5°	2332.7	2203.3	1978.5	1780.9	1577.9	1398.0	1260.4	1169.1	1094.1	1058.7	1062.8
40°	2428.1	2282.3	2004.3	1761.8	1528.8	1329.9	1186.8	1066.9	963.3	929.3	925.2
42.5°	2518.0	2340.9	2018.0	1733.2	1472.9	1250.8	1081.9	927.9	824.4	782.1	783.5
45°	2612.0	2398.1	2012.5	1695.0	1403.4	1158.2	947.0	791.7	700.4	662.2	663.6
47.5°	2719.7	2459.4	2007.1	1654.2	1319.0	1038.3	817.5	671.7	592.7	565.5	562.7
50°	2834.1	2527.6	2000.3	1603.7	1225.0	904.7	689.5	560.0	493.3	475.5	471.4
52.5°	2963.6	2601.1	1996.2	1543.8	1111.9	763.0	575.0	461.9	416.9	404.7	403.3
55°	3118.9	2687.0	2001.6	1471.6	975.6	629.5	478.3	397.9	367.9	361.1	359.7
57.5°	3308.3	2797.4	2018.0	1387.1	832.5	513.7	407.4	358.4	339.3	333.8	333.8
60°	3514.1	2922.7	2047.9	1291.7	689.5	423.8	361.1	327.0	318.8	325.7	325.7
62.5°	3736.2	3069.9	2101.1	1175.9	555.9	358.4	324.3	301.1	295.7	309.3	310.7
65°	3941.9	3212.9	2135.1	1036.9	441.5	310.7	295.7	275.2	278.0	291.6	290.2
67.5°	4068.6	3331.5	2087.5	862.5	350.2	275.2	265.7	248.0	254.8	265.7	267.1
70°	3991.0	3264.7	1851.7	651.3	273.9	239.8	233.0	222.1	227.5	241.2	246.6
72.5°	3610.8	2924.1	1440.2	440.1	220.7	201.7	204.4	198.9	205.7	218.0	230.3
75°	2930.9	2210.1	966.1	282.1	174.4	171.7	175.8	171.7	174.4	186.7	193.5
77.5°	1530.2	1077.8	481.0	175.8	129.4	133.5	140.3	141.7	149.9	152.6	155.3
80°	714.0	485.1	200.3	98.1	85.8	94.0	107.6	109.0	111.7	115.8	117.2
82.5°	233.0	145.8	92.7	53.1	49.1	53.1	69.5	83.1	84.5	92.7	92.7
85°	24.5	15.0	20.4	21.8	19.1	23.2	31.3	30.0	13.6	8.2	8.2
87.5°	6.8	5.5	6.8	6.8	5.5	5.5	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)