

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: P1210365

Luminaire Tested: **ARCH3-100-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

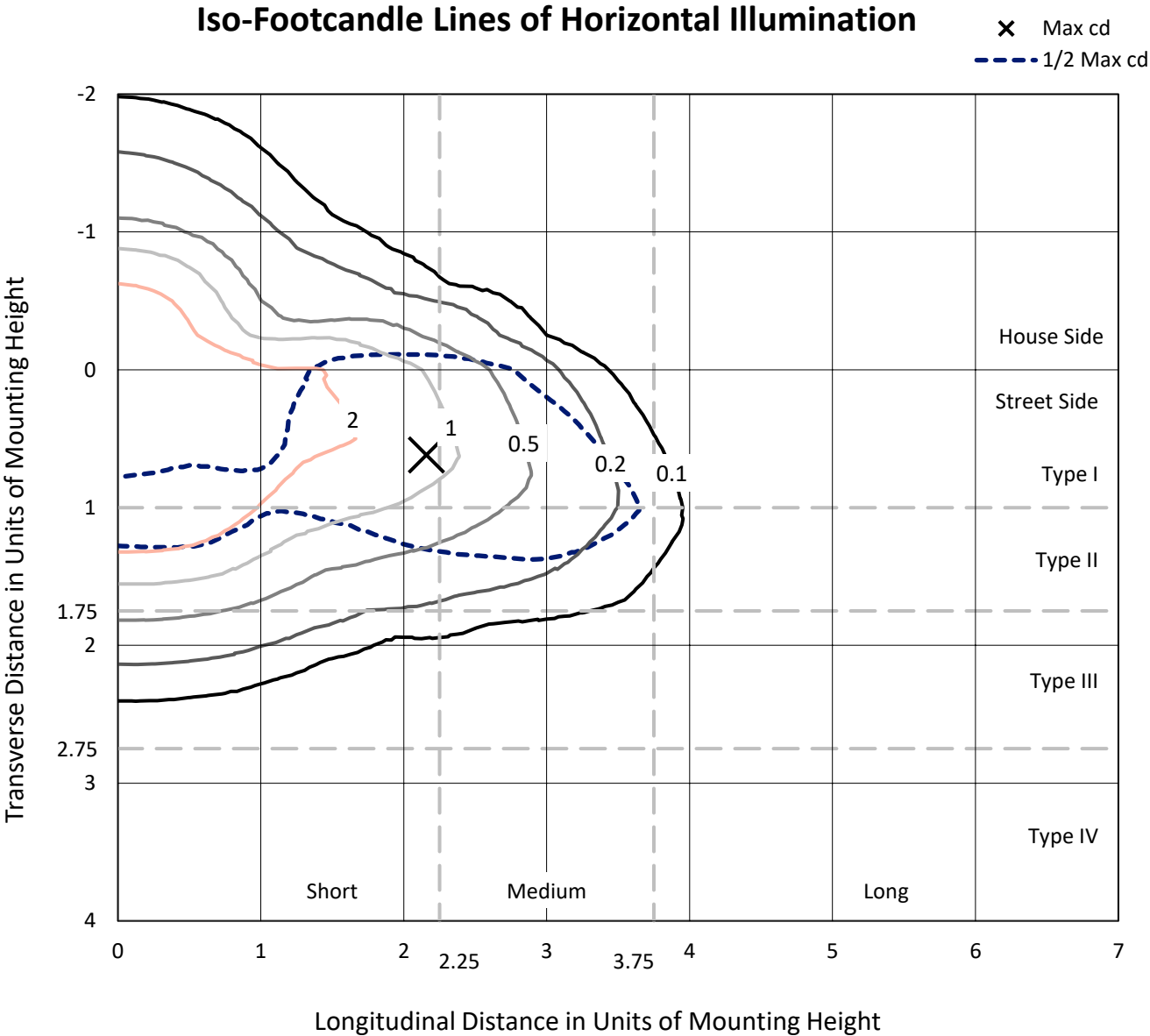
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15355 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.6
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



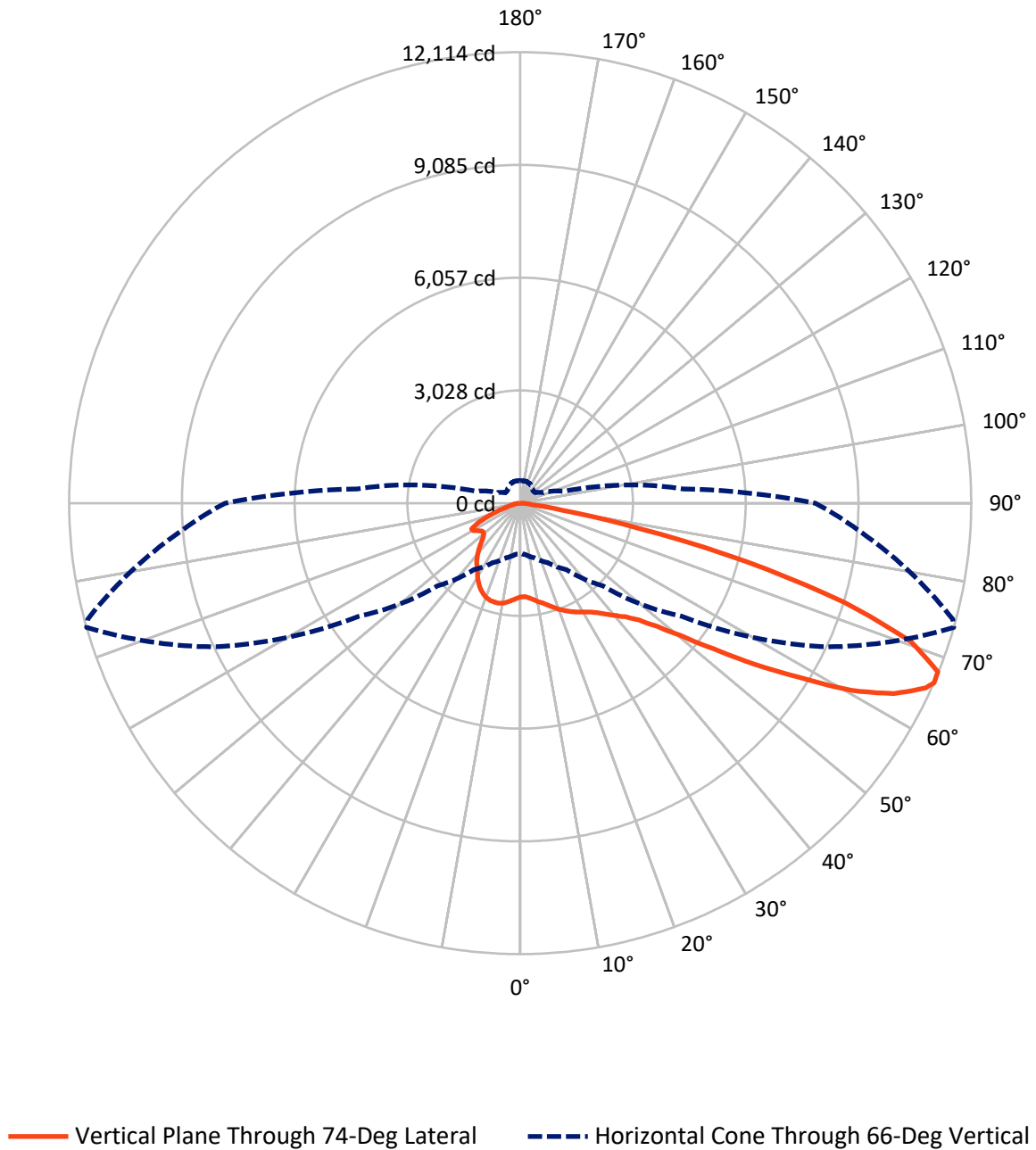
REPORT NUMBER: P1210365
CATALOG NUMBER: ARCH3-100-730-U-T2RE



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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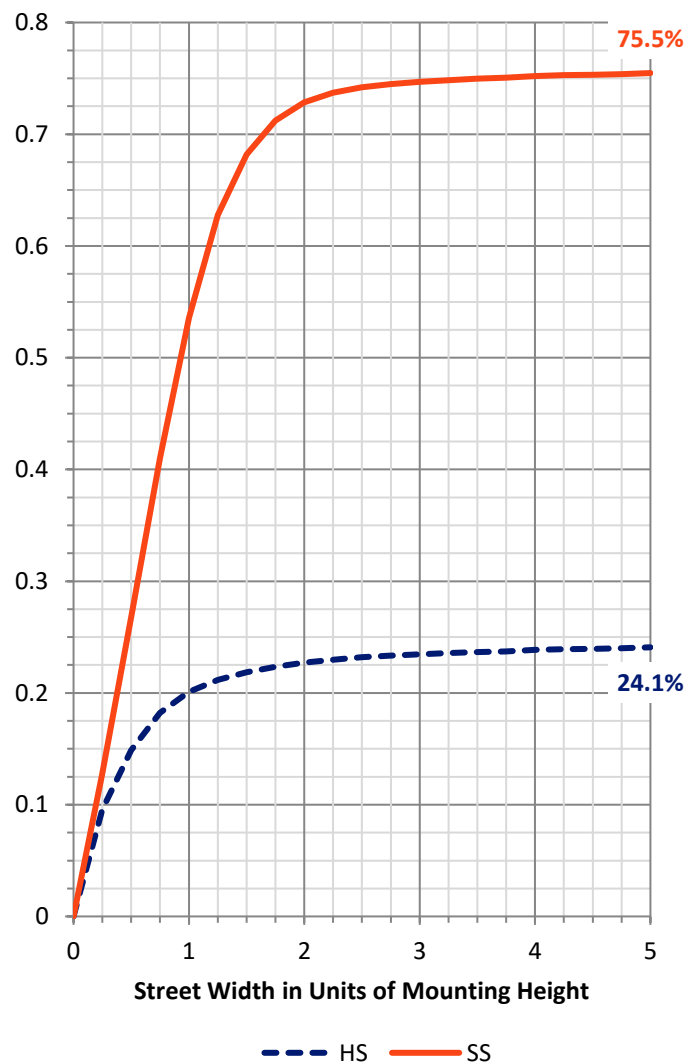
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3739.4	0.0	3739.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11615.6	0.0	11615.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	15355.0	0.0	15355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.6
10°-20°	738.4	4.8
20°-30°	1385.6	9.0
30°-40°	2131.4	13.9
40°-50°	2867.0	18.7
50°-60°	3390.5	22.1
60°-70°	3136.4	20.4
70°-80°	1319.5	8.6
80°-90°	146.0	1.0
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°	15355.0	100.0
0°-180°	15355.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210365

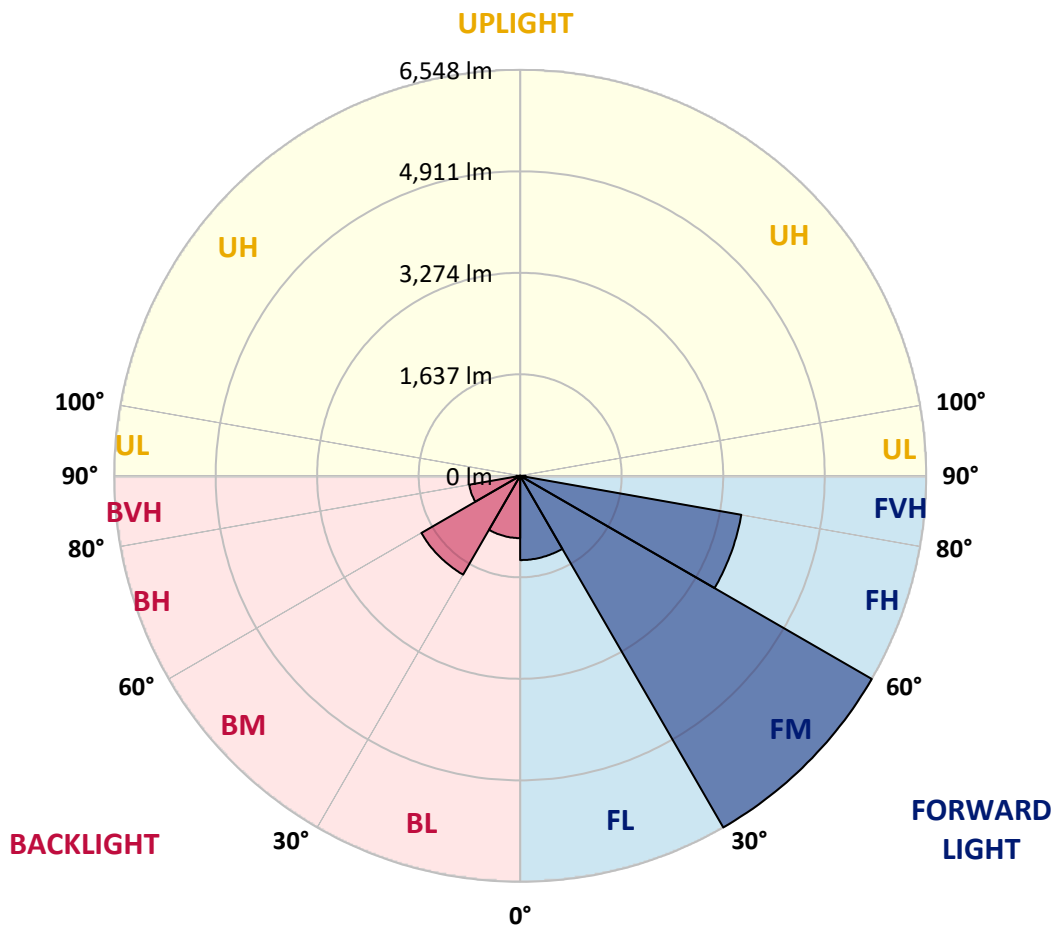
CATALOG NUMBER: ARCH3-100-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.1	8.9			
FM	(30°-60°)	6548.0	42.6			
FH	(60°-80°)	3621.1	23.6			G2/5000
FVH	(80°-90°)	87.4	0.6			G1/100
BL	(0°-30°)	1005.1	6.5	B3/2500		
BM	(30°-60°)	1840.9	12.0	B2/2500		
BH	(60°-80°)	834.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	58.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P1210365

CATALOG NUMBER: ARCH3-100-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2509.3	2505.3	2513.2	2525.1	2531.0	2521.1	2517.2	2515.2	2515.2	2509.3	2519.2
5°	2390.7	2388.8	2406.5	2428.3	2469.8	2499.4	2538.9	2562.6	2554.7	2542.9	2550.8
7.5°	2236.6	2232.7	2254.4	2295.9	2353.2	2418.4	2515.2	2590.3	2619.9	2616.0	2614.0
10°	2295.9	2292.0	2290.0	2278.1	2297.9	2361.1	2461.9	2594.3	2695.0	2697.0	2699.0
12.5°	2501.4	2511.3	2501.4	2463.8	2420.4	2396.7	2455.9	2604.1	2758.2	2770.1	2819.5
15°	2782.0	2772.1	2752.3	2708.8	2641.7	2570.5	2527.1	2649.6	2849.1	2859.0	2967.7
17.5°	3028.9	3036.8	3025.0	2983.5	2904.5	2811.6	2679.2	2728.6	2945.9	2973.6	3125.7
20°	3297.6	3329.3	3313.5	3262.1	3196.9	3058.6	2892.6	2843.2	3052.6	3072.4	3289.7
22.5°	3607.8	3641.4	3611.8	3562.4	3509.1	3339.1	3125.7	2983.5	3141.6	3183.0	3447.8
25°	3979.3	4010.9	3983.3	3906.2	3839.0	3631.6	3376.7	3141.6	3228.5	3273.9	3576.2
27.5°	4273.7	4297.4	4323.1	4277.7	4174.9	3959.5	3637.5	3305.5	3315.4	3362.8	3694.8
30°	4536.5	4595.8	4617.5	4623.4	4536.5	4295.4	3904.2	3475.5	3390.5	3439.9	3813.3
32.5°	4896.1	4985.0	4949.4	4985.0	4933.6	4611.6	4180.8	3651.3	3487.3	3532.8	3926.0
35°	5421.7	5492.8	5399.9	5372.3	5289.3	4931.6	4447.6	3833.1	3615.8	3665.1	4032.6
37.5°	5986.7	6067.7	5933.4	5822.7	5664.7	5247.8	4676.8	4072.2	3793.6	3833.1	4131.4
40°	6480.7	6547.9	6431.3	6285.1	6020.3	5526.4	4874.3	4240.1	3971.4	4020.8	4246.0
42.5°	6937.1	6980.6	6850.2	6709.9	6356.2	5777.3	5087.7	4417.9	4178.9	4226.3	4338.9
45°	7399.4	7433.0	7251.3	7051.7	6636.8	6006.5	5322.9	4666.9	4483.1	4546.4	4489.1
47.5°	7482.4	7492.3	7460.7	7326.3	6858.1	6225.8	5613.3	5000.8	4947.5	5016.6	4747.9
50°	6907.5	6996.4	7192.0	7324.4	6947.0	6409.6	5903.8	5478.9	5587.6	5676.5	5285.3
52.5°	5791.1	5876.1	6328.6	6830.4	6733.6	6451.1	6215.9	6085.5	6490.6	6597.3	6016.4
55°	4613.5	4688.6	5166.8	5889.9	6044.0	6261.4	6549.8	6860.0	7642.5	7713.6	6818.6
57.5°	3799.5	3841.0	4182.8	4878.3	5125.3	5654.8	6729.6	7780.8	8814.1	8922.8	7516.0
60°	3115.9	3161.3	3416.2	3989.2	4317.2	4787.4	6587.4	8689.7	10213.0	10213.0	8411.1
62.5°	2345.3	2384.8	2621.9	3070.4	3621.7	4052.4	6132.9	9292.3	11268.1	11220.7	9059.1
65°	1610.3	1641.9	1813.8	2112.2	2608.1	3453.7	5512.5	9300.2	11967.5	11904.3	9335.8
66°	1351.5	1379.1	1525.3	1766.4	2183.3	3133.7	5293.2	9132.2	12113.8	12024.8	9219.2
67.5°	1066.9	1086.7	1183.5	1325.8	1600.4	2537.0	4947.5	8656.1	12099.9	12046.6	8922.8
70°	762.7	776.5	847.6	877.3	946.4	1468.0	3929.9	7581.2	11129.8	11145.6	7757.1
72.5°	590.8	612.5	656.0	661.9	646.1	780.4	2384.8	6324.6	9104.6	9098.7	5757.5
75°	476.2	488.0	509.8	521.6	517.7	503.8	1009.6	4718.3	6267.3	6340.4	3224.5
77.5°	375.4	373.4	393.2	409.0	420.8	395.2	462.3	2766.1	3285.8	3192.9	1211.2
80°	276.6	276.6	304.3	310.2	328.0	331.9	308.2	1066.9	1128.2	1025.5	314.2
82.5°	181.8	181.8	211.4	215.4	233.1	258.8	223.3	320.1	312.2	296.4	142.3
85°	98.8	94.8	104.7	118.5	128.4	152.1	134.4	160.0	164.0	162.0	94.8
87.5°	19.8	17.8	27.7	31.6	35.6	47.4	43.5	65.2	90.9	88.9	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210365

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2533.0	2531.0	2552.8	2578.4	2608.1	2625.9	2633.8	2647.6	2637.7	2641.7	2653.5
5°	2570.5	2576.5	2608.1	2641.7	2655.5	2645.6	2623.9	2616.0	2598.2	2594.3	2590.3
7.5°	2625.9	2635.7	2667.4	2675.3	2633.8	2564.6	2515.2	2487.6	2457.9	2450.0	2446.1
10°	2716.8	2722.7	2730.6	2649.6	2546.8	2454.0	2392.7	2367.0	2347.3	2331.5	2335.4
12.5°	2831.4	2827.4	2766.1	2598.2	2452.0	2357.2	2315.7	2299.9	2286.0	2276.1	2274.2
15°	2975.6	2947.9	2772.1	2527.1	2363.1	2284.0	2254.4	2248.5	2232.7	2232.7	2230.7
17.5°	3121.8	3050.7	2768.1	2452.0	2278.1	2234.7	2216.9	2212.9	2209.0	2207.0	2212.9
20°	3268.0	3141.6	2736.5	2359.1	2218.8	2193.2	2189.2	2191.2	2187.2	2193.2	2189.2
22.5°	3396.4	3200.8	2677.2	2260.3	2177.4	2175.4	2165.5	2169.5	2183.3	2185.3	2191.2
25°	3495.2	3222.6	2590.3	2169.5	2147.7	2143.8	2155.6	2171.4	2183.3	2185.3	2195.1
27.5°	3576.2	3210.7	2481.6	2098.3	2096.3	2118.1	2153.6	2159.6	2161.5	2161.5	2153.6
30°	3637.5	3185.0	2343.3	2019.3	2029.2	2082.5	2116.1	2116.1	2100.3	2096.3	2108.2
32.5°	3651.3	3151.4	2193.2	1938.3	1954.1	2017.3	2058.8	2045.0	2027.2	2027.2	2035.1
35°	3663.2	3106.0	2072.6	1827.6	1851.3	1926.4	1965.9	1938.3	1918.5	1912.6	1910.6
37.5°	3659.2	3088.2	1964.0	1687.4	1719.0	1792.1	1817.8	1792.1	1762.4	1748.6	1766.4
40°	3663.2	3076.4	1827.6	1533.2	1564.8	1608.3	1641.9	1622.1	1594.5	1558.9	1576.7
42.5°	3686.9	3092.2	1677.5	1383.1	1383.1	1406.8	1464.1	1450.3	1383.1	1369.2	1385.1
45°	3813.3	3177.1	1527.3	1232.9	1211.2	1227.0	1286.3	1227.0	1185.5	1185.5	1199.3
47.5°	4119.6	3335.2	1394.9	1100.5	1049.2	1080.8	1096.6	1041.3	1009.6	1001.7	1015.6
50°	4743.9	3651.3	1315.9	991.9	928.6	952.3	942.5	940.5	908.9	912.8	920.7
52.5°	5692.3	4267.8	1292.2	938.5	859.5	865.4	855.5	859.5	853.6	873.3	879.2
55°	6725.7	4917.8	1321.8	946.4	812.1	770.6	774.5	794.3	818.0	849.6	855.5
57.5°	7498.2	5243.8	1398.9	999.8	752.8	689.6	699.4	737.0	782.4	808.1	821.9
60°	8073.2	5204.3	1511.5	1013.6	681.7	616.5	634.2	689.6	729.1	750.8	764.6
62.5°	8260.9	4957.3	1539.2	912.8	588.8	547.3	590.8	648.1	665.9	689.6	699.4
65°	8106.8	4607.6	1337.6	740.9	517.7	495.9	559.2	602.6	626.3	638.2	640.2
66°	7925.0	4398.2	1229.0	673.8	492.0	480.1	547.3	582.9	606.6	604.6	606.6
67.5°	7525.9	3959.5	1053.1	578.9	454.4	456.4	527.5	551.3	559.2	553.2	553.2
70°	6168.5	2787.9	754.8	438.6	399.1	426.8	474.2	480.1	497.9	490.0	490.0
72.5°	3803.5	1369.2	505.8	335.9	355.6	399.1	397.1	416.9	458.4	470.2	478.1
75°	1869.1	555.2	333.9	284.5	318.1	333.9	330.0	379.4	438.6	490.0	507.8
77.5°	709.3	276.6	233.1	249.0	256.9	250.9	262.8	343.8	438.6	531.5	549.3
80°	219.3	191.7	183.8	205.5	193.6	183.8	197.6	284.5	371.5	403.1	403.1
82.5°	132.4	150.2	142.3	140.3	130.4	132.4	142.3	203.5	286.5	300.3	300.3
85°	92.9	98.8	81.0	77.1	75.1	73.1	73.1	118.5	169.9	167.9	173.9
87.5°	35.6	39.5	29.6	29.6	27.7	19.8	15.8	19.8	19.8	13.8	9.9
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)