

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: P841745

Luminaire Tested: **ARCH4-220-730-U-T4W-HSS**

Issue Date: 5/27/2024

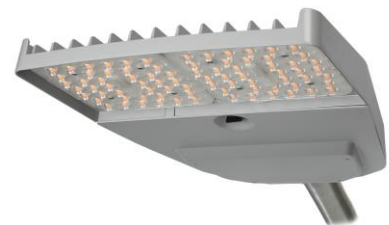
Test Information

Test Method: LM-79-08
Report Number: P841745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23189 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
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



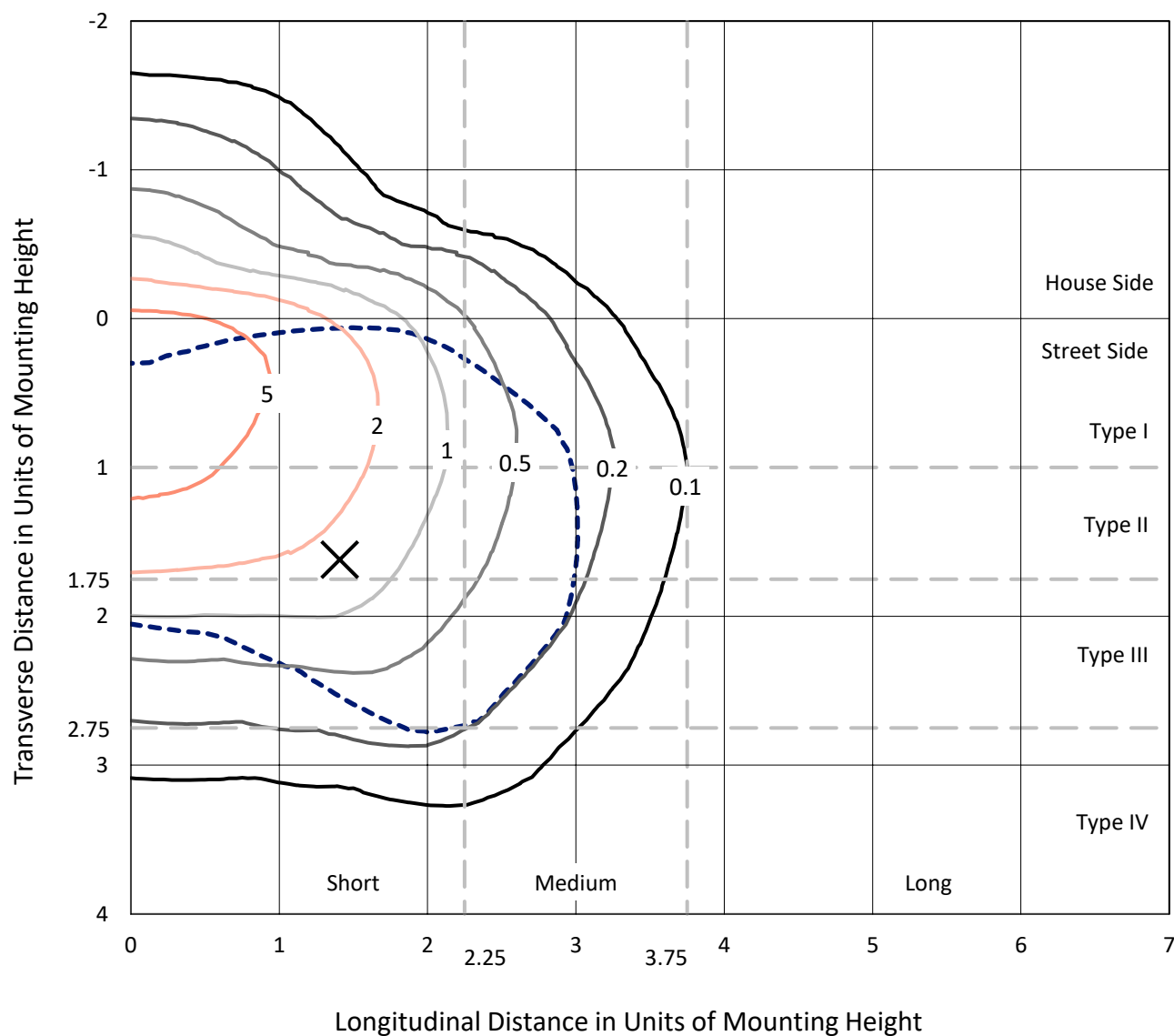
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

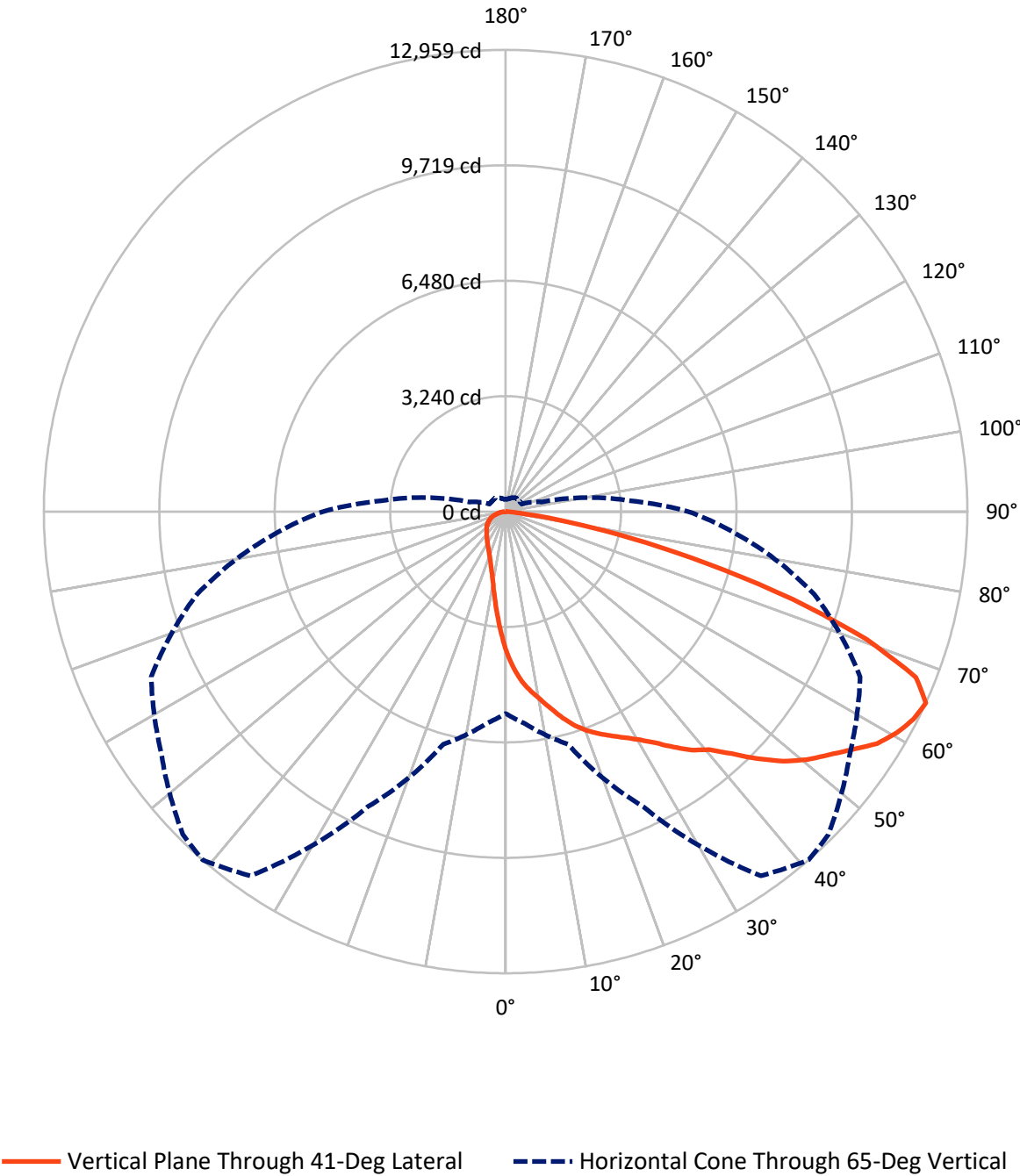


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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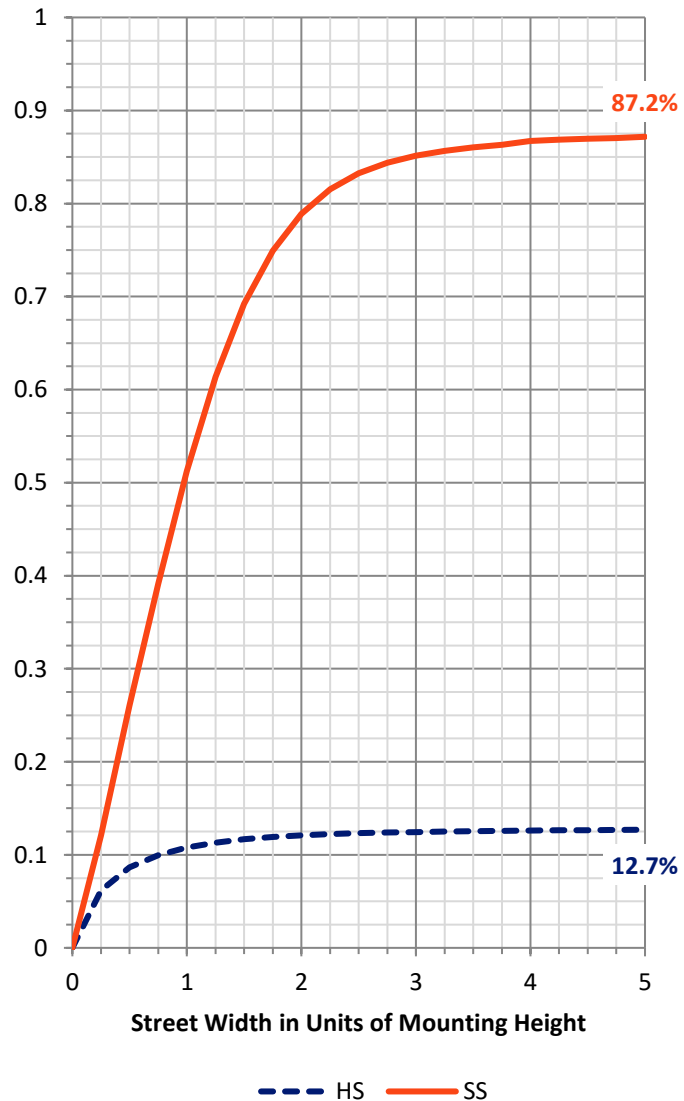
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.1	0.0	2977.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20211.9	0.0	20211.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	23189.0	0.0	23189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.6
10°-20°	1103.9	4.8
20°-30°	1899.2	8.2
30°-40°	2880.4	12.4
40°-50°	4219.9	18.2
50°-60°	5328.8	23.0
60°-70°	4996.7	21.5
70°-80°	2227.0	9.6
80°-90°	165.0	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°	23189.0	100.0
0°-180°	23189.0	100.0

Coefficient of Utilization



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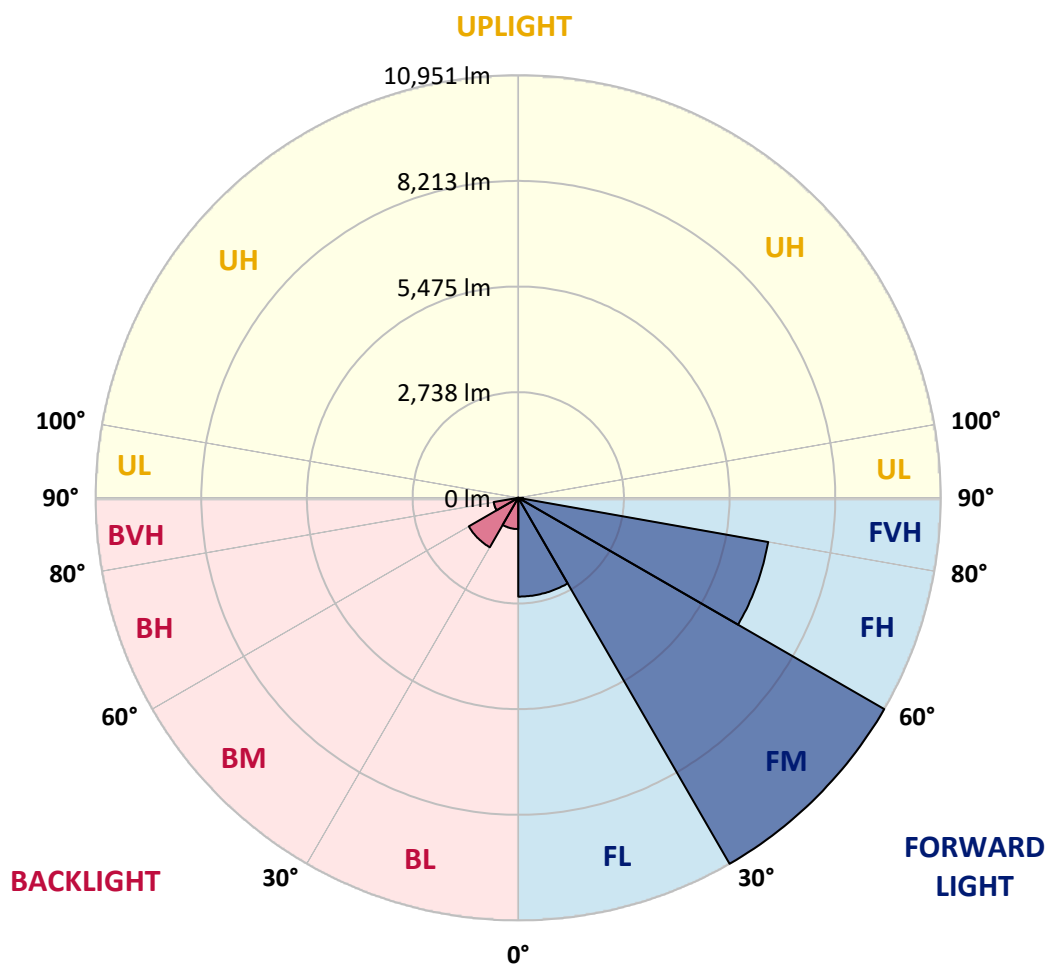
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2560.9	11.0			
FM	(30°-60°)	10950.7	47.2			
FH	(60°-80°)	6577.0	28.4			G3/7500
FVH	(80°-90°)	123.2	0.5			G2/225
BL	(0°-30°)	810.3	3.5	B2/1000		
BM	(30°-60°)	1478.3	6.4	B2/2500		
BH	(60°-80°)	646.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	41.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3
2.5°	4557.7	4543.0	4533.2	4479.4	4479.4	4406.1	4411.0	4342.5	4259.4	4127.3	3985.5
5°	4988.0	4968.4	4944.0	4890.2	4870.6	4797.3	4787.5	4689.7	4547.9	4318.0	4063.8
7.5°	5364.6	5345.0	5310.8	5232.5	5178.7	5090.7	5066.3	4939.1	4782.6	4499.0	4142.0
10°	5706.9	5692.2	5648.2	5550.4	5477.0	5369.4	5325.4	5154.3	4958.7	4645.7	4205.6
12.5°	6054.1	6034.5	5975.8	5892.7	5804.7	5677.5	5623.7	5403.7	5154.3	4807.1	4298.5
15°	6376.8	6347.5	6303.5	6215.4	6137.2	6015.0	5956.3	5697.1	5393.9	4988.0	4420.7
17.5°	6587.1	6562.7	6523.5	6474.6	6411.1	6318.1	6259.5	6005.2	5633.5	5164.1	4547.9
20°	6714.2	6704.5	6689.8	6660.5	6631.1	6567.5	6523.5	6283.9	5892.7	5335.2	4670.1
22.5°	6812.1	6802.3	6797.4	6797.4	6802.3	6777.8	6748.5	6543.1	6142.1	5516.1	4782.6
25°	6963.6	6958.8	6949.0	6939.2	6973.4	6978.3	6968.5	6826.7	6455.1	5755.8	4924.4
27.5°	7173.9	7159.3	7139.7	7129.9	7164.1	7188.6	7208.2	7110.4	6787.6	6000.3	5085.8
30°	7496.7	7452.7	7403.8	7369.5	7394.0	7433.1	7477.1	7418.4	7129.9	6303.5	5252.1
32.5°	7878.1	7824.3	7711.9	7648.3	7711.9	7741.2	7775.4	7746.1	7486.9	6631.1	5418.3
35°	8342.7	8279.1	8161.7	8068.8	8181.3	8117.7	8103.1	8073.7	7824.3	6953.9	5604.2
37.5°	9115.3	9022.4	8836.6	8631.2	8631.2	8494.3	8440.5	8352.5	8127.5	7242.4	5785.1
40°	10010.2	9888.0	9648.4	9345.2	9066.4	8782.8	8748.6	8685.0	8484.5	7574.9	5990.5
42.5°	10993.2	10758.4	10425.9	10059.1	9609.2	9286.5	9208.3	9027.3	8831.7	7912.3	6195.9
45°	12083.7	11594.7	11110.5	10924.7	10181.4	9888.0	9741.3	9413.6	9193.6	8264.4	6411.1
47.5°	12259.7	11878.3	11555.6	11526.2	10714.4	10469.9	10303.7	9834.2	9584.8	8641.0	6636.0
50°	12161.9	11932.1	11966.3	11849.0	11105.7	10944.3	10817.1	10284.1	9971.1	9002.9	6841.4
52.5°	11751.2	11878.3	12073.9	11858.7	11477.3	11345.3	11281.7	10768.2	10333.0	9335.4	7027.2
55°	11262.1	11350.2	11770.7	12034.8	11907.6	11790.3	11731.6	11330.6	10690.0	9614.1	7198.4
57.5°	10548.2	10509.0	10973.6	12005.4	12357.5	12289.1	12225.5	11883.2	11022.5	9814.6	7306.0
60°	9477.2	9394.1	9980.9	11418.6	12504.3	12611.8	12582.5	12250.0	11276.8	9809.7	7262.0
62.5°	7623.8	7829.2	8641.0	10460.1	12567.8	12841.7	12787.9	12279.3	11359.9	9526.1	6983.2
65°	5667.7	5961.2	6758.3	9139.8	12479.8	12959.0	12812.3	11800.1	10973.6	8963.7	6371.9
67.5°	4083.3	4342.5	4924.4	7521.1	11633.8	12421.1	12250.0	11017.6	10083.6	8166.6	5525.9
70°	2792.3	2978.1	3374.2	5477.0	9932.0	10738.9	10631.3	9848.9	8680.1	7217.9	4489.2
72.5°	1970.8	2049.0	2303.3	3613.9	7545.6	8425.8	8298.7	8103.1	6973.4	6000.3	3491.6
75°	1476.8	1525.7	1662.7	2337.5	5090.7	5838.9	5721.5	5834.0	5208.1	4543.0	2542.9
77.5°	557.5	606.4	943.8	1491.5	3012.4	3584.5	3467.2	3535.6	2895.0	2293.5	1266.6
80°	151.6	161.4	313.0	709.1	1369.3	1784.9	1623.5	1393.7	1075.8	1056.3	670.0
82.5°	63.6	73.4	141.8	381.4	489.0	489.0	410.8	508.6	410.8	493.9	322.8
85°	24.5	29.3	34.2	97.8	63.6	68.5	73.4	97.8	83.1	102.7	73.4
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	4.9	9.8	14.7	14.7	14.7
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°	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3
2.5°	3926.8	3873.0	3794.8	3667.7	3535.6	3462.3	3369.4	3354.7	3256.9	3247.1	3208.0
5°	3951.3	3838.8	3638.3	3393.8	3154.2	2968.4	2831.4	2758.1	2616.3	2616.3	2577.1
7.5°	3970.8	3794.8	3472.0	3110.2	2782.5	2533.1	2347.3	2269.1	2141.9	2132.1	2102.8
10°	3975.7	3741.0	3291.1	2821.6	2420.7	2166.4	1985.4	1897.4	1784.9	1775.1	1755.6
12.5°	4014.9	3711.7	3129.7	2572.2	2161.5	1887.6	1711.6	1638.2	1550.2	1540.4	1520.9
15°	4078.4	3711.7	2992.8	2362.0	1931.6	1677.3	1525.7	1457.3	1393.7	1383.9	1374.1
17.5°	4142.0	3701.9	2855.9	2166.4	1740.9	1511.1	1379.0	1325.2	1276.3	1271.5	1261.7
20°	4200.7	3697.0	2719.0	2000.1	1594.2	1374.1	1271.5	1222.6	1183.4	1183.4	1178.5
22.5°	4259.4	3687.2	2586.9	1843.6	1467.1	1271.5	1183.4	1129.6	1100.3	1100.3	1095.4
25°	4347.4	3687.2	2464.7	1711.6	1364.4	1193.2	1105.2	1066.1	1041.6	1036.7	1036.7
27.5°	4450.1	3716.6	2357.1	1594.2	1276.3	1115.0	1046.5	1007.4	978.0	968.3	973.2
30°	4562.6	3741.0	2259.3	1491.5	1193.2	1056.3	982.9	943.8	914.5	904.7	909.6
32.5°	4675.0	3770.3	2171.3	1398.6	1110.1	1002.5	929.1	885.1	855.8	850.9	850.9
35°	4797.3	3799.7	2083.2	1320.4	1041.6	948.7	880.2	831.3	811.8	802.0	806.9
37.5°	4919.5	3848.6	2000.1	1247.0	992.7	899.8	836.2	787.3	772.7	767.8	767.8
40°	5066.3	3921.9	1965.9	1198.1	948.7	855.8	802.0	753.1	738.4	738.4	738.4
42.5°	5188.5	3980.6	1936.5	1144.3	914.5	816.7	767.8	728.6	718.9	714.0	718.9
45°	5310.8	4034.4	1897.4	1095.4	870.5	777.5	738.4	699.3	689.5	689.5	689.5
47.5°	5433.0	4063.8	1843.6	1046.5	831.3	743.3	709.1	674.8	665.1	665.1	665.1
50°	5530.8	4088.2	1765.4	992.7	787.3	714.0	679.7	645.5	635.7	635.7	635.7
52.5°	5628.6	4093.1	1682.2	929.1	743.3	679.7	650.4	616.2	606.4	601.5	601.5
55°	5716.6	4088.2	1584.4	855.8	694.4	640.6	616.2	586.8	567.3	547.7	557.5
57.5°	5780.2	4083.3	1472.0	782.4	645.5	601.5	591.7	552.6	513.5	464.6	474.3
60°	5755.8	4029.5	1349.7	689.5	591.7	562.4	562.4	508.6	440.1	415.7	420.6
62.5°	5599.3	3877.9	1222.6	591.7	537.9	523.3	518.4	459.7	405.9	381.4	386.3
65°	5129.8	3496.5	1036.7	503.7	484.1	479.2	479.2	425.4	376.5	347.2	352.1
67.5°	4415.9	2934.1	846.0	425.4	430.3	440.1	440.1	391.2	342.3	313.0	317.9
70°	3540.5	2293.5	674.8	366.8	371.7	386.3	396.1	352.1	308.1	278.7	278.7
72.5°	2665.2	1740.9	542.8	308.1	332.5	332.5	347.2	313.0	269.0	239.6	244.5
75°	1931.6	1247.0	430.3	259.2	288.5	283.6	283.6	264.1	229.8	210.3	210.3
77.5°	914.5	655.3	342.3	185.8	224.9	220.1	224.9	210.3	195.6	176.0	180.9
80°	449.9	322.8	220.1	132.0	156.5	161.4	176.0	166.3	161.4	146.7	146.7
82.5°	215.2	127.1	102.7	92.9	107.6	112.5	122.3	122.3	127.1	117.4	117.4
85°	58.7	34.2	44.0	58.7	68.5	73.4	83.1	88.0	88.0	83.1	88.0
87.5°	14.7	14.7	19.6	29.3	34.2	39.1	44.0	44.0	19.6	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)