

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: P842033

Luminaire Tested: **ARCH4-260-730-U-T4W-HSS**

Issue Date: 5/27/2024

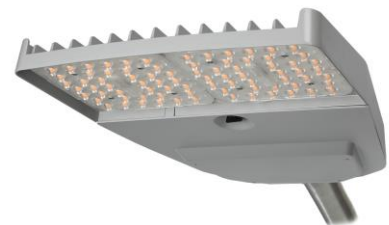
Test Information

Test Method: LM-79-08
Report Number: P842033
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: ARCH4-260-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA 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: 26135 lumens
Efficiency: N/A
Efficacy: 100.8 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): 259.2
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



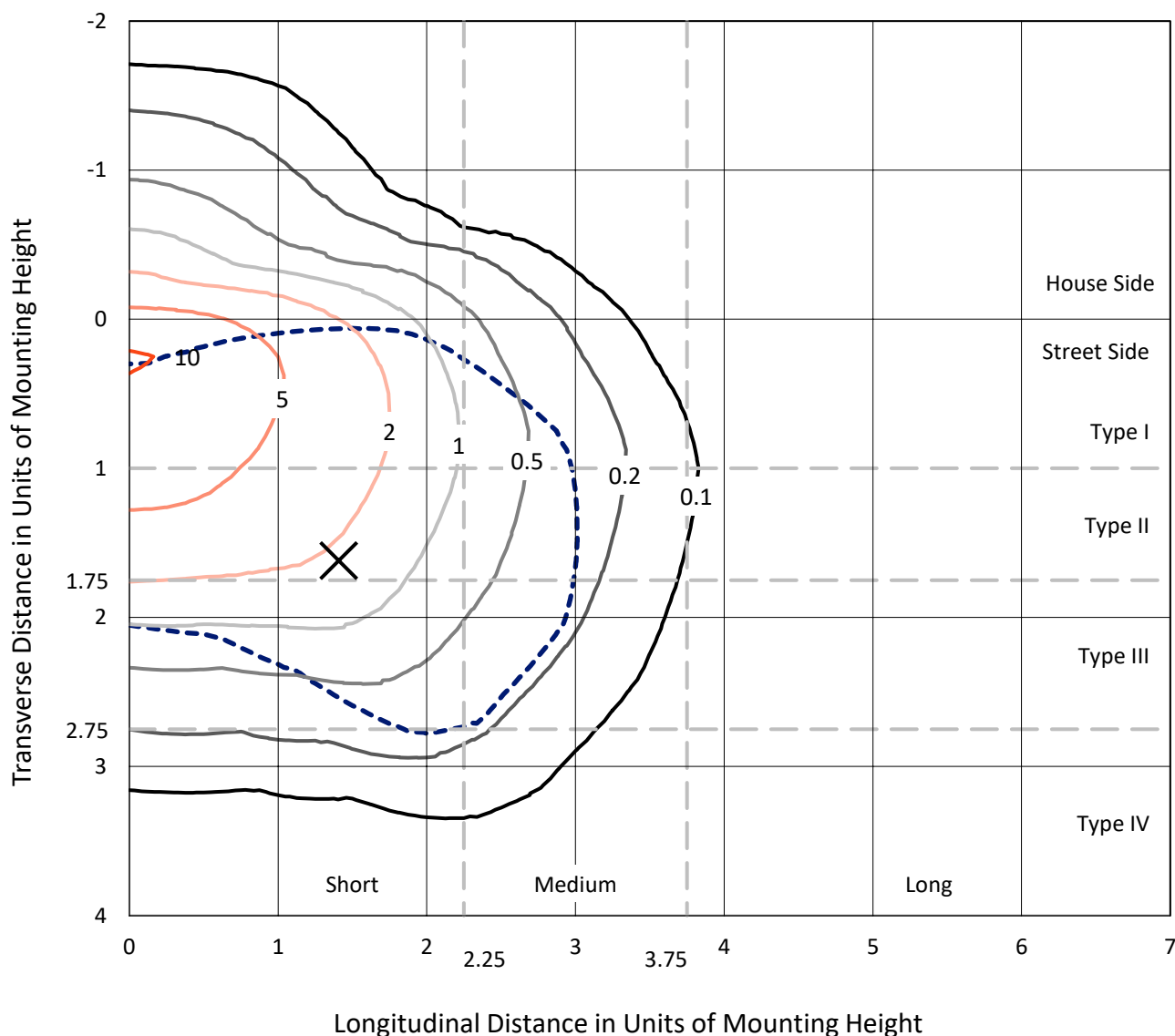
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

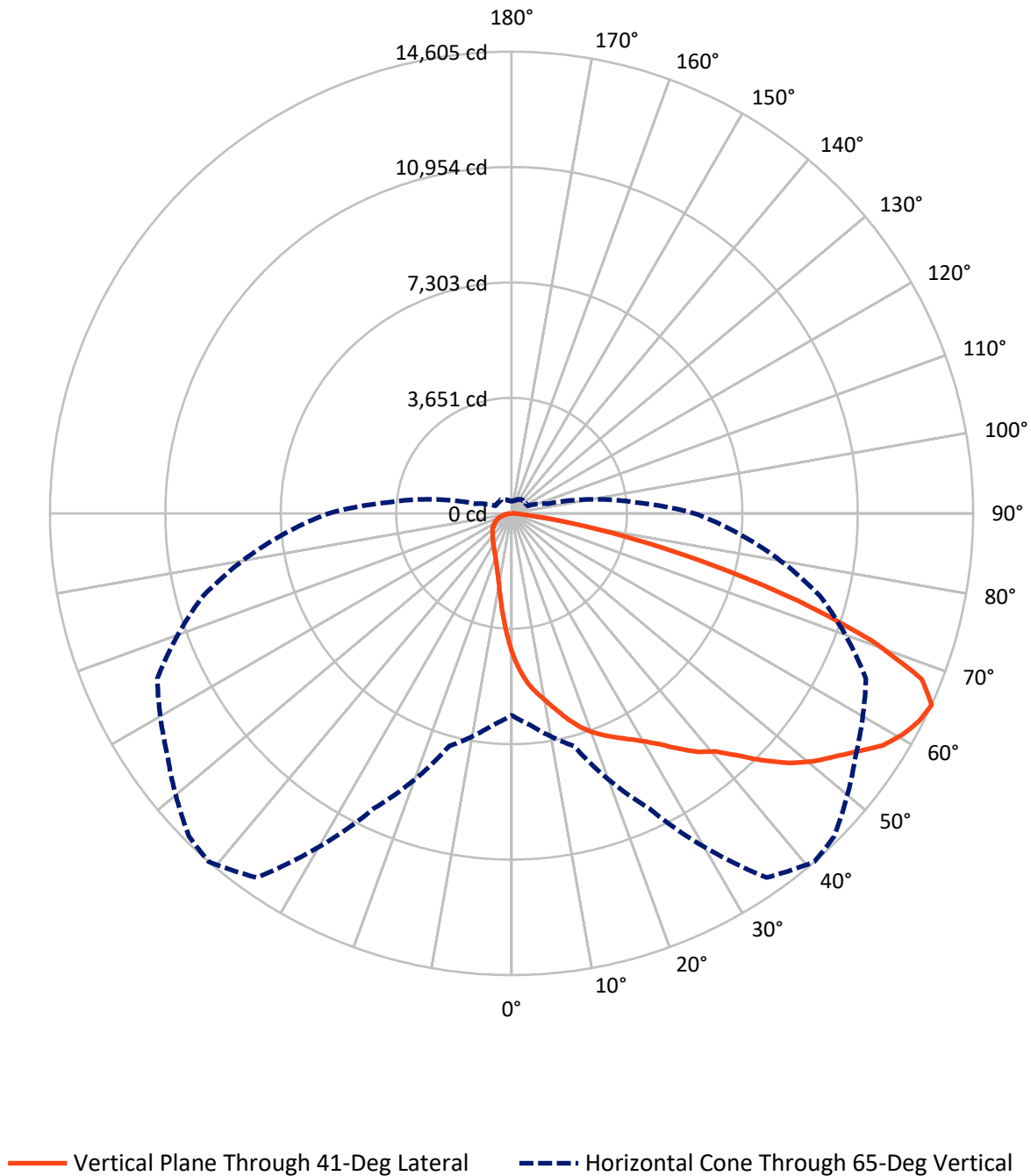


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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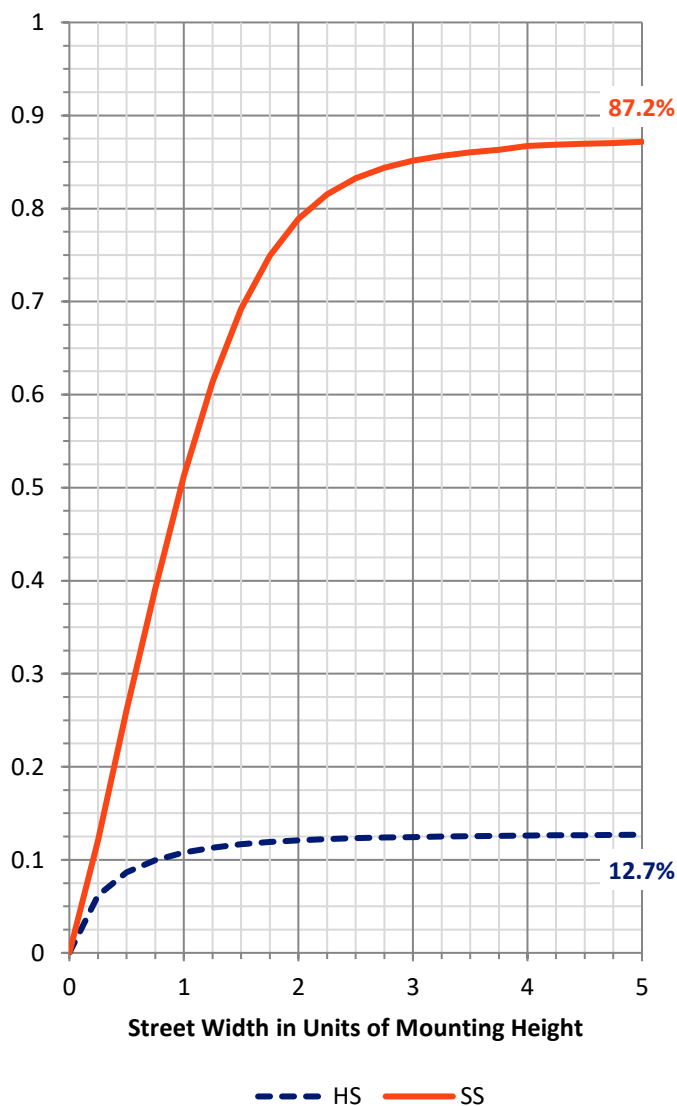
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3355.3	0.0	3355.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22779.7	0.0	22779.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	26135.0	0.0	26135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.9	1.6
10°-20°	1244.2	4.8
20°-30°	2140.4	8.2
30°-40°	3246.3	12.4
40°-50°	4756.0	18.2
50°-60°	6005.8	23.0
60°-70°	5631.5	21.5
70°-80°	2509.9	9.6
80°-90°	185.9	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°	26135.0	100.0
0°-180°	26135.0	100.0

Coefficient of Utilization



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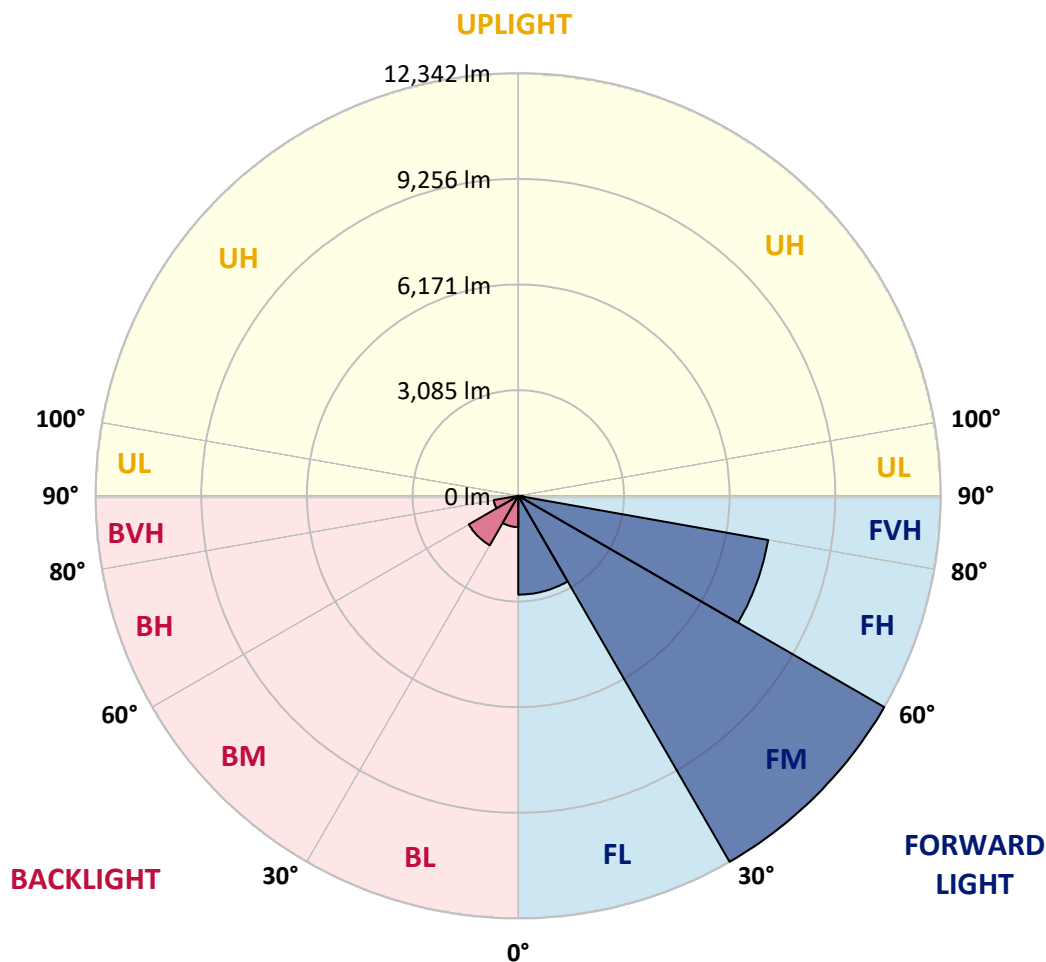
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2886.3	11.0			
FM	(30°-60°)	12342.0	47.2			
FH	(60°-80°)	7412.6	28.4			G3/7500
FVH	(80°-90°)	138.9	0.5			G2/225
BL	(0°-30°)	913.3	3.5	B2/1000		
BM	(30°-60°)	1666.1	6.4	B2/2500		
BH	(60°-80°)	728.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	47.1	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°	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3
2.5°	5136.7	5120.2	5109.1	5048.5	5048.5	4965.8	4971.3	4894.2	4800.5	4651.7	4491.8
5°	5621.7	5599.7	5572.1	5511.5	5489.4	5406.8	5395.7	5285.5	5125.7	4866.6	4580.0
7.5°	6046.1	6024.0	5985.5	5897.3	5836.6	5737.4	5709.9	5566.6	5390.2	5070.6	4668.2
10°	6431.9	6415.4	6365.7	6255.5	6172.8	6051.6	6002.0	5809.1	5588.6	5235.9	4739.9
12.5°	6823.2	6801.2	6735.0	6641.3	6542.1	6398.8	6338.2	6090.2	5809.1	5417.8	4844.6
15°	7187.0	7153.9	7104.3	7005.1	6916.9	6779.1	6713.0	6420.9	6079.2	5621.7	4982.4
17.5°	7423.9	7396.4	7352.3	7297.2	7225.5	7120.8	7054.7	6768.1	6349.2	5820.1	5125.7
20°	7567.2	7556.2	7539.7	7506.6	7473.6	7401.9	7352.3	7082.2	6641.3	6013.0	5263.5
22.5°	7677.5	7666.5	7660.9	7660.9	7666.5	7638.9	7605.8	7374.3	6922.4	6216.9	5390.2
25°	7848.3	7842.8	7831.8	7820.8	7859.4	7864.9	7853.8	7694.0	7275.1	6487.0	5550.0
27.5°	8085.3	8068.8	8046.7	8035.7	8074.3	8101.9	8123.9	8013.7	7649.9	6762.6	5731.9
30°	8449.1	8399.5	8344.4	8305.8	8333.3	8377.4	8427.0	8360.9	8035.7	7104.3	5919.3
32.5°	8879.0	8818.4	8691.6	8619.9	8691.6	8724.7	8763.2	8730.2	8438.1	7473.6	6106.7
35°	9402.6	9330.9	9198.6	9093.9	9220.7	9149.0	9132.5	9099.4	8818.4	7837.3	6316.1
37.5°	10273.4	10168.7	9959.2	9727.7	9727.7	9573.4	9512.8	9413.6	9160.1	8162.5	6520.1
40°	11282.0	11144.2	10874.1	10532.4	10218.3	9898.6	9860.0	9788.4	9562.4	8537.3	6751.6
42.5°	12389.8	12125.2	11750.5	11337.1	10830.0	10466.3	10378.1	10174.2	9953.7	8917.6	6983.0
45°	13618.8	13067.7	12522.1	12312.6	11474.9	11144.2	10978.8	10609.6	10361.6	9314.4	7225.5
47.5°	13817.3	13387.4	13023.6	12990.5	12075.6	11800.1	11612.7	11083.6	10802.5	9738.8	7479.1
50°	13707.0	13448.0	13486.6	13354.3	12516.5	12334.7	12191.4	11590.6	11237.9	10146.6	7710.5
52.5°	13244.1	13387.4	13607.8	13365.3	12935.4	12786.6	12715.0	12136.3	11645.7	10521.4	7920.0
55°	12692.9	12792.1	13266.1	13563.7	13420.4	13288.2	13222.0	12770.1	12048.1	10835.5	8112.9
57.5°	11888.2	11844.1	12367.7	13530.7	13927.5	13850.3	13778.7	13392.9	12422.9	11061.5	8234.1
60°	10681.2	10587.5	11248.9	12869.3	14092.8	14214.1	14181.0	13806.2	12709.4	11056.0	8184.5
62.5°	8592.4	8823.9	9738.8	11789.0	14164.5	14473.1	14412.5	13839.3	12803.1	10736.3	7870.4
65°	6387.8	6718.5	7616.9	10300.9	14065.3	14605.4	14440.1	13299.2	12367.7	10102.5	7181.4
67.5°	4602.1	4894.2	5550.0	8476.6	13111.8	13999.1	13806.2	12417.3	11364.7	9204.2	6228.0
70°	3147.0	3356.5	3802.9	6172.8	11193.8	12103.2	11981.9	11100.1	9782.9	8134.9	5059.5
72.5°	2221.1	2309.3	2595.9	4073.0	8504.2	9496.3	9353.0	9132.5	7859.4	6762.6	3935.2
75°	1664.5	1719.6	1873.9	2634.5	5737.4	6580.7	6448.4	6575.2	5869.7	5120.2	2866.0
77.5°	628.3	683.4	1063.7	1681.0	3395.1	4039.9	3907.6	3984.8	3262.8	2584.9	1427.5
80°	170.9	181.9	352.7	799.2	1543.2	2011.7	1829.8	1570.8	1212.5	1190.5	755.1
82.5°	71.6	82.7	159.8	429.9	551.1	551.1	463.0	573.2	463.0	556.7	363.8
85°	27.6	33.1	38.6	110.2	71.6	77.2	82.7	110.2	93.7	115.7	82.7
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	5.5	11.0	16.5	16.5	16.5
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°	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3	4453.3
2.5°	4425.7	4365.1	4276.9	4133.6	3984.8	3902.1	3797.4	3780.9	3670.6	3659.6	3615.5
5°	4453.3	4326.5	4100.5	3825.0	3554.9	3345.5	3191.1	3108.5	2948.6	2948.6	2904.5
7.5°	4475.3	4276.9	3913.1	3505.3	3136.0	2854.9	2645.5	2557.3	2414.0	2403.0	2369.9
10°	4480.8	4216.3	3709.2	3180.1	2728.2	2441.6	2237.7	2138.5	2011.7	2000.7	1978.6
12.5°	4524.9	4183.2	3527.3	2899.0	2436.1	2127.4	1929.0	1846.3	1747.1	1736.1	1714.1
15°	4596.6	4183.2	3373.0	2662.0	2177.0	1890.4	1719.6	1642.4	1570.8	1559.7	1548.7
17.5°	4668.2	4172.2	3218.7	2441.6	1962.1	1703.0	1554.2	1493.6	1438.5	1433.0	1422.0
20°	4734.4	4166.7	3064.4	2254.2	1796.7	1548.7	1433.0	1377.9	1333.8	1333.8	1328.3
22.5°	4800.5	4155.6	2915.6	2077.8	1653.4	1433.0	1333.8	1273.1	1240.1	1240.1	1234.6
25°	4899.7	4155.6	2777.8	1929.0	1537.7	1344.8	1245.6	1201.5	1173.9	1168.4	1168.4
27.5°	5015.4	4188.7	2656.5	1796.7	1438.5	1256.6	1179.5	1135.4	1102.3	1091.3	1096.8
30°	5142.2	4216.3	2546.3	1681.0	1344.8	1190.5	1107.8	1063.7	1030.6	1019.6	1025.1
32.5°	5269.0	4249.3	2447.1	1576.3	1251.1	1129.9	1047.2	997.6	964.5	959.0	959.0
35°	5406.8	4282.4	2347.9	1488.1	1173.9	1069.2	992.1	936.9	914.9	903.9	909.4
37.5°	5544.5	4337.5	2254.2	1405.4	1118.8	1014.1	942.5	887.3	870.8	865.3	865.3
40°	5709.9	4420.2	2215.6	1350.3	1069.2	964.5	903.9	848.8	832.2	832.2	832.2
42.5°	5847.7	4486.3	2182.5	1289.7	1030.6	920.4	865.3	821.2	810.2	804.7	810.2
45°	5985.5	4547.0	2138.5	1234.6	981.0	876.3	832.2	788.1	777.1	777.1	777.1
47.5°	6123.2	4580.0	2077.8	1179.5	936.9	837.7	799.2	760.6	749.6	749.6	749.6
50°	6233.5	4607.6	1989.6	1118.8	887.3	804.7	766.1	727.5	716.5	716.5	716.5
52.5°	6343.7	4613.1	1895.9	1047.2	837.7	766.1	733.0	694.4	683.4	677.9	677.9
55°	6442.9	4607.6	1785.7	964.5	782.6	722.0	694.4	661.4	639.3	617.3	628.3
57.5°	6514.6	4602.1	1659.0	881.8	727.5	677.9	666.9	622.8	578.7	523.6	534.6
60°	6487.0	4541.5	1521.2	777.1	666.9	633.8	633.8	573.2	496.0	468.5	474.0
62.5°	6310.6	4370.6	1377.9	666.9	606.3	589.7	584.2	518.1	457.5	429.9	435.4
65°	5781.5	3940.7	1168.4	567.7	545.6	540.1	540.1	479.5	424.4	391.3	396.8
67.5°	4976.9	3306.9	953.5	479.5	485.0	496.0	496.0	440.9	385.8	352.7	358.2
70°	3990.3	2584.9	760.6	413.4	418.9	435.4	446.4	396.8	347.2	314.2	314.2
72.5°	3003.8	1962.1	611.8	347.2	374.8	374.8	391.3	352.7	303.1	270.1	275.6
75°	2177.0	1405.4	485.0	292.1	325.2	319.7	319.7	297.6	259.0	237.0	237.0
77.5°	1030.6	738.5	385.8	209.4	253.5	248.0	253.5	237.0	220.5	198.4	203.9
80°	507.1	363.8	248.0	148.8	176.4	181.9	198.4	187.4	181.9	165.3	165.3
82.5°	242.5	143.3	115.7	104.7	121.3	126.8	137.8	137.8	143.3	132.3	132.3
85°	66.1	38.6	49.6	66.1	77.2	82.7	93.7	99.2	99.2	93.7	99.2
87.5°	16.5	16.5	22.0	33.1	38.6	44.1	49.6	49.6	22.0	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)