

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: P841309

Luminaire Tested: **ARCH4-160-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18192 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 160.7
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



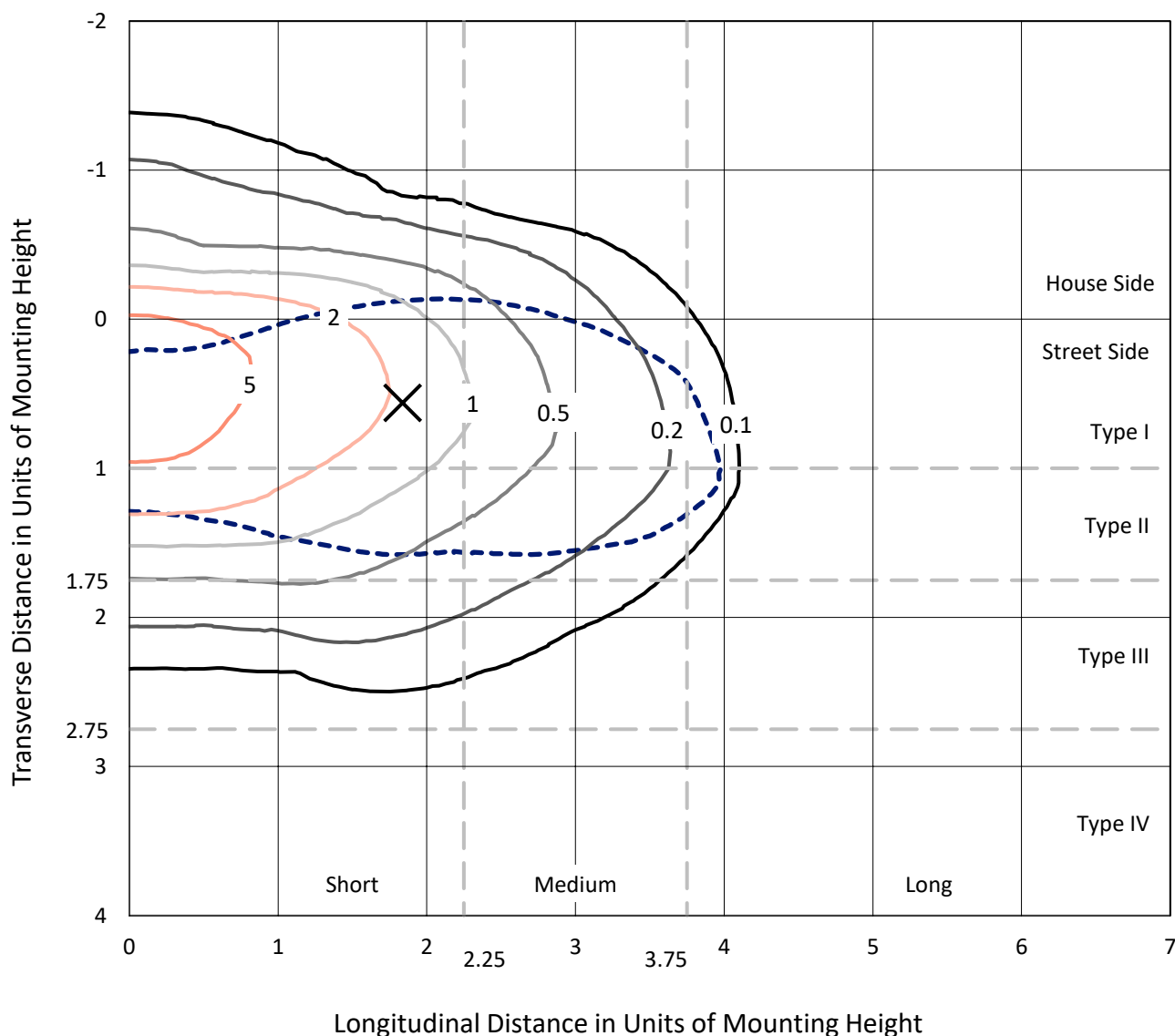
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

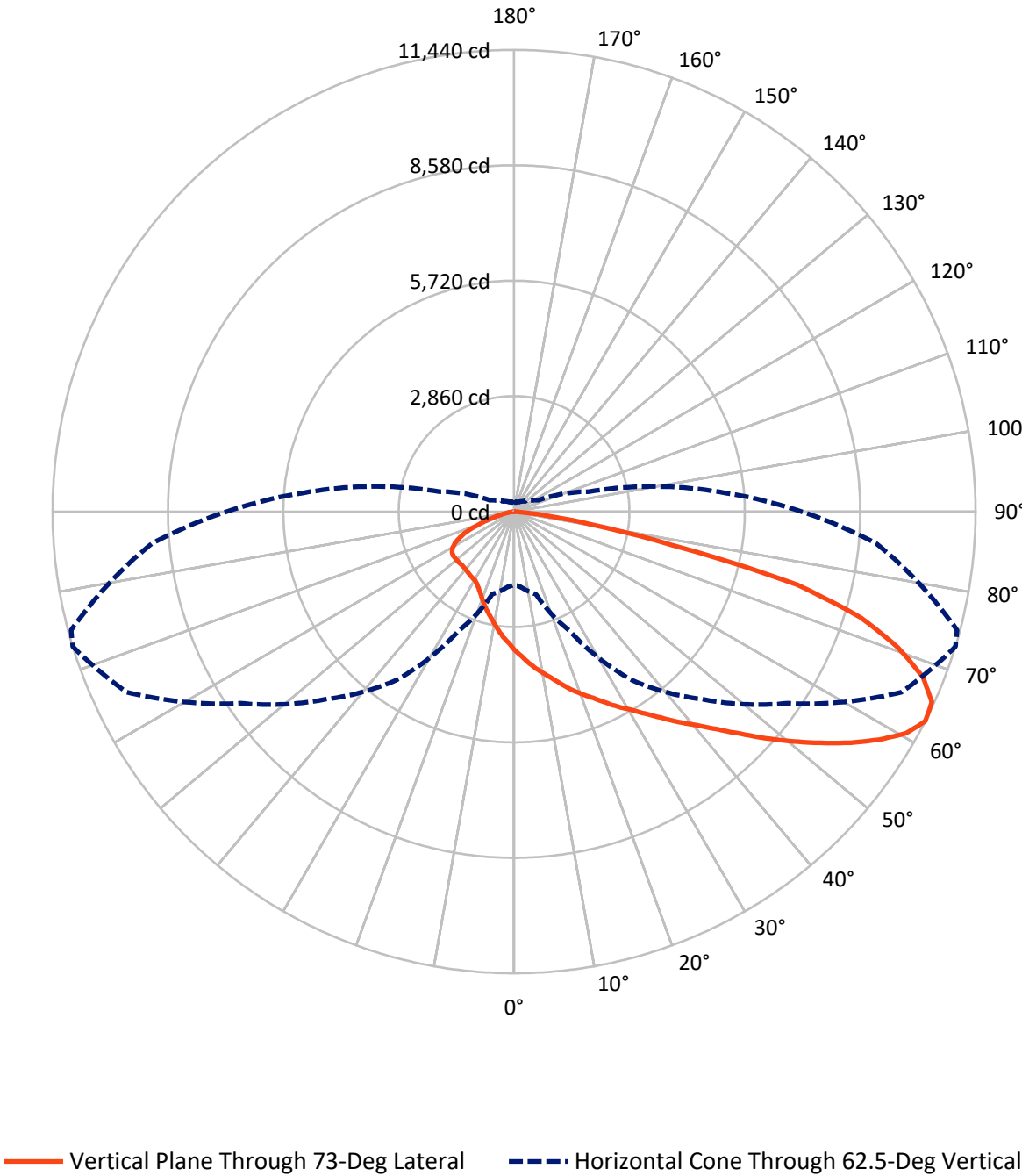


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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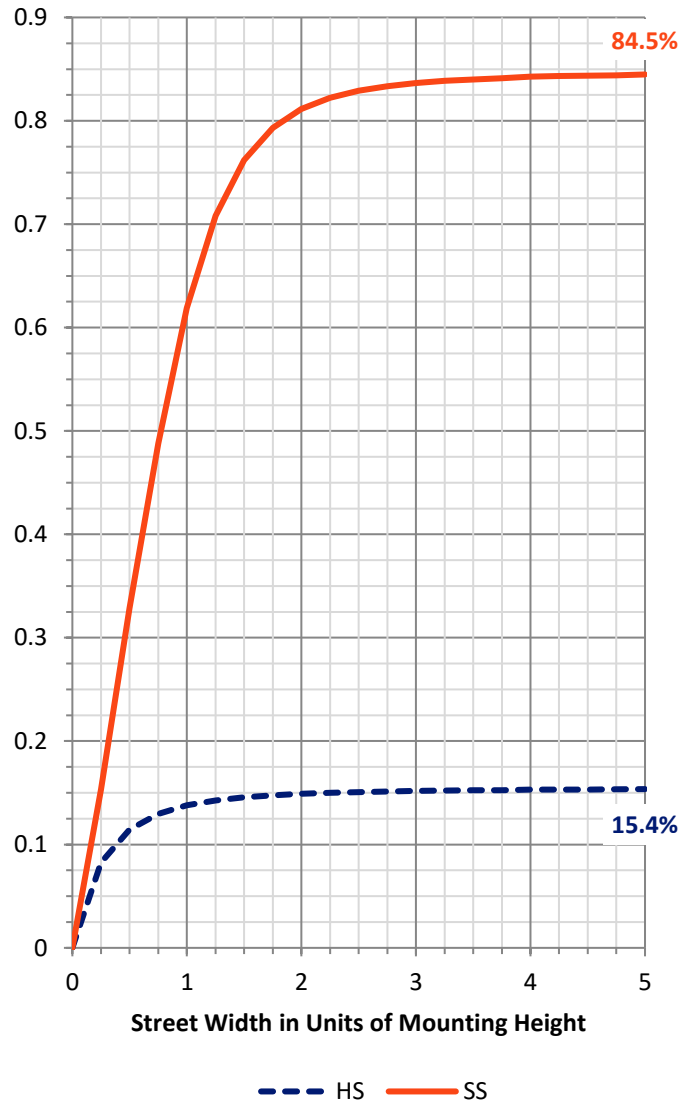
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2820.0	0.0	2820.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15372.0	0.0	15372.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	18192.0	0.0	18192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	1.8
10°-20°	1004.2	5.5
20°-30°	1671.5	9.2
30°-40°	2522.0	13.9
40°-50°	3525.1	19.4
50°-60°	3893.7	21.4
60°-70°	3391.9	18.6
70°-80°	1713.4	9.4
80°-90°	137.5	0.8
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°	18192.0	100.0
0°-180°	18192.0	100.0

Coefficient of Utilization



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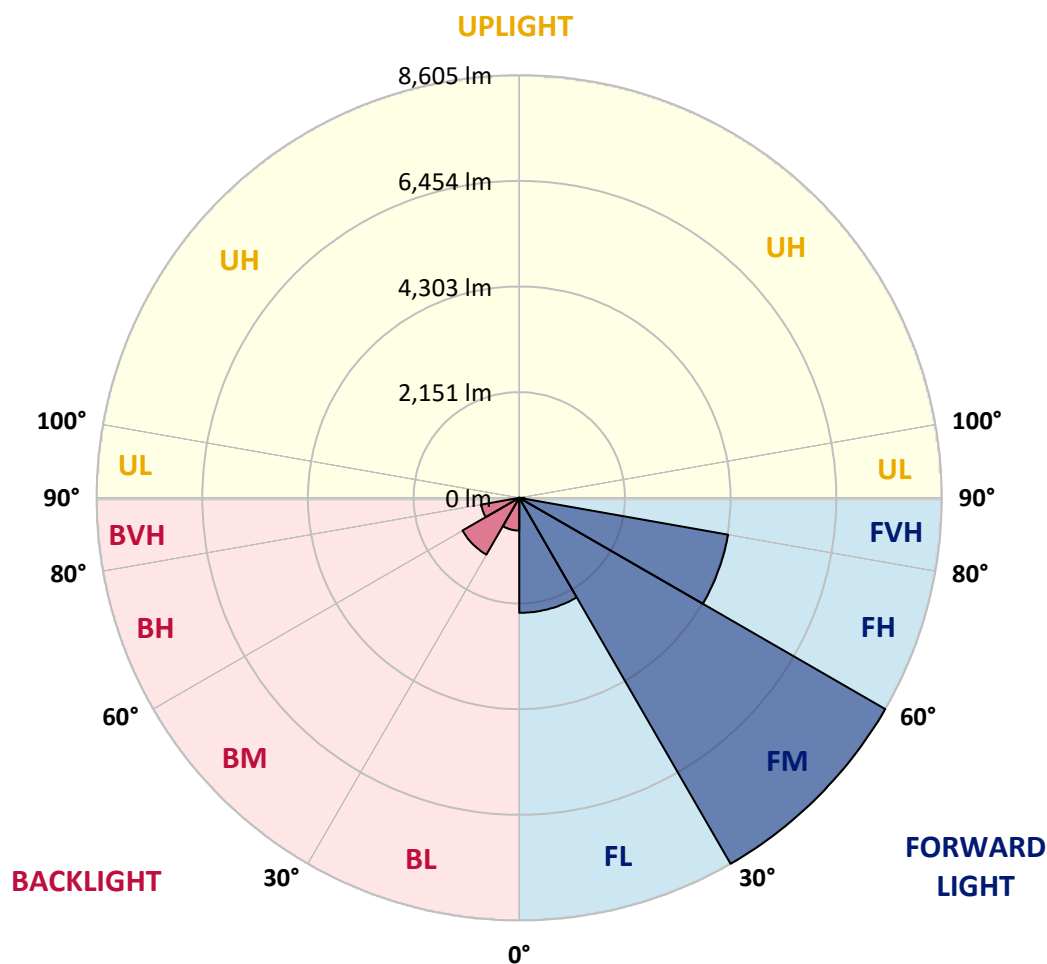
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2341.9	12.9			
FM	(30°-60°)	8605.5	47.3			
FH	(60°-80°)	4318.2	23.7			G2/5000
FVH	(80°-90°)	106.4	0.6			G2/225
BL	(0°-30°)	666.5	3.7	B2/1000		
BM	(30°-60°)	1335.3	7.3	B2/2500		
BH	(60°-80°)	787.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	31.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7
2.5°	3920.4	3964.0	3940.2	3956.0	3876.8	3825.2	3765.8	3650.8	3587.4	3579.5	3504.2
5°	4495.1	4542.7	4503.1	4491.2	4352.4	4233.5	4098.7	3896.6	3761.8	3738.0	3571.5
7.5°	5069.9	5113.5	5066.0	5030.3	4844.0	4633.9	4435.7	4138.4	3928.3	3888.7	3627.0
10°	5474.2	5513.9	5478.2	5442.5	5248.3	5034.2	4752.8	4364.3	4078.9	4015.5	3662.7
12.5°	5779.5	5803.3	5787.4	5755.7	5573.3	5343.4	5073.9	4618.0	4249.4	4170.1	3718.2
15°	6029.2	6068.8	6049.0	6025.2	5850.8	5620.9	5363.3	4883.6	4447.6	4348.5	3801.5
17.5°	6195.7	6223.4	6227.4	6227.4	6072.8	5846.9	5597.1	5125.4	4645.8	4518.9	3880.7
20°	6271.0	6302.7	6322.5	6354.3	6227.4	6033.2	5779.5	5331.5	4832.1	4689.4	3956.0
22.5°	6306.7	6334.4	6386.0	6457.3	6354.3	6191.7	5957.9	5521.8	5018.4	4867.8	4043.3
25°	6334.4	6370.1	6445.4	6580.2	6508.8	6370.1	6167.9	5739.8	5240.4	5085.8	4170.1
27.5°	6409.7	6453.4	6524.7	6687.2	6600.0	6532.6	6389.9	5973.7	5474.2	5315.7	4324.7
30°	6671.4	6707.0	6703.1	6806.1	6699.1	6679.3	6580.2	6199.7	5700.2	5541.6	4507.0
32.5°	7147.0	7182.7	7095.5	7055.9	6822.0	6826.0	6786.3	6441.5	5969.7	5807.2	4717.1
35°	7658.4	7698.0	7583.1	7515.7	7123.3	7008.3	7028.1	6742.7	6271.0	6108.5	4978.8
37.5°	8114.3	8161.8	8062.7	7963.6	7567.2	7301.6	7297.7	7079.7	6615.9	6449.4	5268.1
40°	8364.0	8419.5	8478.9	8423.4	8007.2	7713.9	7587.0	7424.5	6956.8	6786.3	5581.3
42.5°	8482.9	8637.5	8744.5	8708.9	8367.9	8070.7	7920.0	7785.2	7373.0	7206.5	5953.9
45°	8149.9	8153.9	8379.8	8574.1	8510.7	8312.5	8284.7	8189.6	7848.7	7690.1	6374.1
47.5°	7733.7	7702.0	7860.6	8205.4	8383.8	8435.3	8597.9	8637.5	8391.7	8233.2	6802.2
50°	6734.8	6754.6	7269.9	7765.4	8114.3	8447.2	8819.8	9097.3	8950.7	8800.0	7254.1
52.5°	5478.2	5525.8	6116.4	7206.5	7757.5	8328.3	8950.7	9557.1	9521.5	9378.8	7706.0
55°	4392.1	4467.4	5093.7	6275.0	7301.6	8062.7	9006.1	9977.3	10112.1	9981.3	8149.9
57.5°	3357.5	3436.8	3964.0	5177.0	6718.9	7630.7	8966.5	10346.0	10663.1	10579.8	8558.2
60°	2529.0	2608.3	2945.2	4197.8	5989.6	7147.0	8768.3	10587.8	11158.6	11071.4	8855.5
62.5°	1811.5	1875.0	2124.7	3266.3	5101.6	6572.3	8280.7	10591.7	11440.0	11368.7	8998.2
65°	1304.1	1304.1	1506.3	2330.8	4269.2	5882.5	7543.4	10104.2	11380.6	11360.8	8899.1
67.5°	939.5	947.4	1109.9	1629.2	3405.1	5046.1	6588.1	9236.1	10920.7	11019.8	8542.4
70°	665.9	685.8	761.1	1137.7	2572.6	3983.8	5565.4	8098.4	10092.3	10266.7	7852.6
72.5°	515.3	527.2	578.7	792.8	1878.9	2961.1	4435.7	6829.9	8986.3	9184.5	6913.2
75°	396.4	408.3	447.9	582.7	1347.8	2077.1	3151.4	5299.8	7246.1	7598.9	5553.5
77.5°	289.4	305.2	333.0	424.1	784.9	1320.0	1910.6	2980.9	3999.7	4166.1	2909.6
80°	134.8	154.6	194.2	273.5	424.1	622.3	677.8	1149.6	1922.5	2009.7	1577.7
82.5°	75.3	95.1	111.0	166.5	214.1	222.0	229.9	289.4	725.4	800.7	662.0
85°	35.7	47.6	51.5	71.4	71.4	63.4	75.3	55.5	118.9	142.7	138.7
87.5°	0.0	4.0	7.9	19.8	15.9	11.9	11.9	11.9	11.9	15.9	11.9
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°	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7	3444.7
2.5°	3468.5	3416.9	3298.0	3195.0	3127.6	3068.1	2988.8	2953.2	2889.7	2901.6	2866.0
5°	3488.3	3393.2	3183.1	2988.8	2846.1	2719.3	2580.5	2501.3	2414.1	2406.1	2378.4
7.5°	3500.2	3353.5	3052.3	2778.7	2560.7	2366.5	2180.2	2077.1	1970.1	1946.3	1922.5
10°	3488.3	3294.1	2917.5	2560.7	2271.4	2029.6	1819.5	1688.7	1577.7	1549.9	1526.1
12.5°	3500.2	3262.4	2790.6	2358.6	2013.7	1740.2	1502.3	1367.6	1264.5	1236.8	1220.9
15°	3527.9	3242.5	2683.6	2176.2	1783.8	1478.6	1244.7	1129.7	1046.5	1018.7	1010.8
17.5°	3551.7	3222.7	2568.7	1997.8	1553.9	1248.7	1046.5	951.4	880.0	852.3	844.3
20°	3583.4	3195.0	2453.7	1827.4	1351.7	1066.3	887.9	804.7	749.2	729.4	725.4
22.5°	3611.2	3175.1	2346.7	1656.9	1165.4	919.6	769.0	701.6	662.0	642.2	642.2
25°	3682.5	3183.1	2255.5	1498.4	1026.7	804.7	677.8	626.3	594.6	582.7	582.7
27.5°	3765.8	3214.8	2184.1	1363.6	907.8	717.5	614.4	570.8	555.0	539.1	543.1
30°	3884.7	3278.2	2136.6	1252.6	820.5	650.1	562.9	531.2	515.3	511.4	511.4
32.5°	4035.3	3381.3	2132.6	1181.3	757.1	598.6	527.2	499.5	491.5	487.6	487.6
35°	4213.7	3472.4	2108.8	1149.6	717.5	562.9	499.5	479.6	475.7	475.7	475.7
37.5°	4427.8	3623.1	2093.0	1105.9	697.7	543.1	479.6	463.8	463.8	463.8	463.8
40°	4649.7	3746.0	2069.2	1066.3	689.7	531.2	467.7	447.9	447.9	447.9	447.9
42.5°	4915.3	3924.3	2061.3	1046.5	677.8	523.2	451.9	428.1	432.1	432.1	436.0
45°	5236.4	4126.5	2057.3	1026.7	673.9	515.3	436.0	408.3	412.3	408.3	408.3
47.5°	5561.5	4360.4	2069.2	1014.8	669.9	507.4	424.1	388.5	388.5	384.5	384.5
50°	5902.4	4574.4	2077.1	1002.9	662.0	491.5	404.3	372.6	364.7	356.8	360.7
52.5°	6223.4	4772.6	2081.1	983.1	638.2	467.7	388.5	352.8	340.9	329.0	333.0
55°	6544.5	4962.9	2089.0	959.3	606.5	444.0	368.6	333.0	317.1	301.3	301.3
57.5°	6833.9	5129.4	2069.2	899.8	570.8	420.2	348.8	309.2	285.4	269.6	269.6
60°	7032.1	5248.3	2009.7	812.6	523.2	392.4	329.0	285.4	257.7	245.8	245.8
62.5°	7127.2	5268.1	1902.7	669.9	463.8	364.7	305.2	261.6	237.8	229.9	229.9
65°	7036.1	5180.9	1736.2	503.4	400.4	333.0	281.4	241.8	218.0	198.2	198.2
67.5°	6718.9	4935.1	1506.3	380.5	340.9	301.3	257.7	222.0	194.2	178.4	178.4
70°	6080.7	4423.8	1165.4	305.2	289.4	261.6	233.9	198.2	174.4	154.6	154.6
72.5°	5244.3	3749.9	820.5	245.8	245.8	222.0	198.2	174.4	150.6	134.8	134.8
75°	4023.4	2774.8	551.0	198.2	202.2	186.3	162.5	142.7	126.8	115.0	115.0
77.5°	2196.0	1371.5	336.9	146.7	150.6	142.7	126.8	115.0	107.0	95.1	95.1
80°	1066.3	602.5	194.2	103.1	107.0	103.1	95.1	83.2	83.2	75.3	75.3
82.5°	447.9	225.9	103.1	71.4	71.4	63.4	59.5	59.5	59.5	55.5	55.5
85°	111.0	43.6	43.6	39.6	39.6	39.6	35.7	35.7	35.7	27.7	31.7
87.5°	15.9	15.9	15.9	15.9	15.9	15.9	11.9	4.0	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)