

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: P841907

Luminaire Tested: **ARCH4-240-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841907
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: ARCH4-240-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 940mA 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: 25935 lumens
Efficiency: N/A
Efficacy: 108.0 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

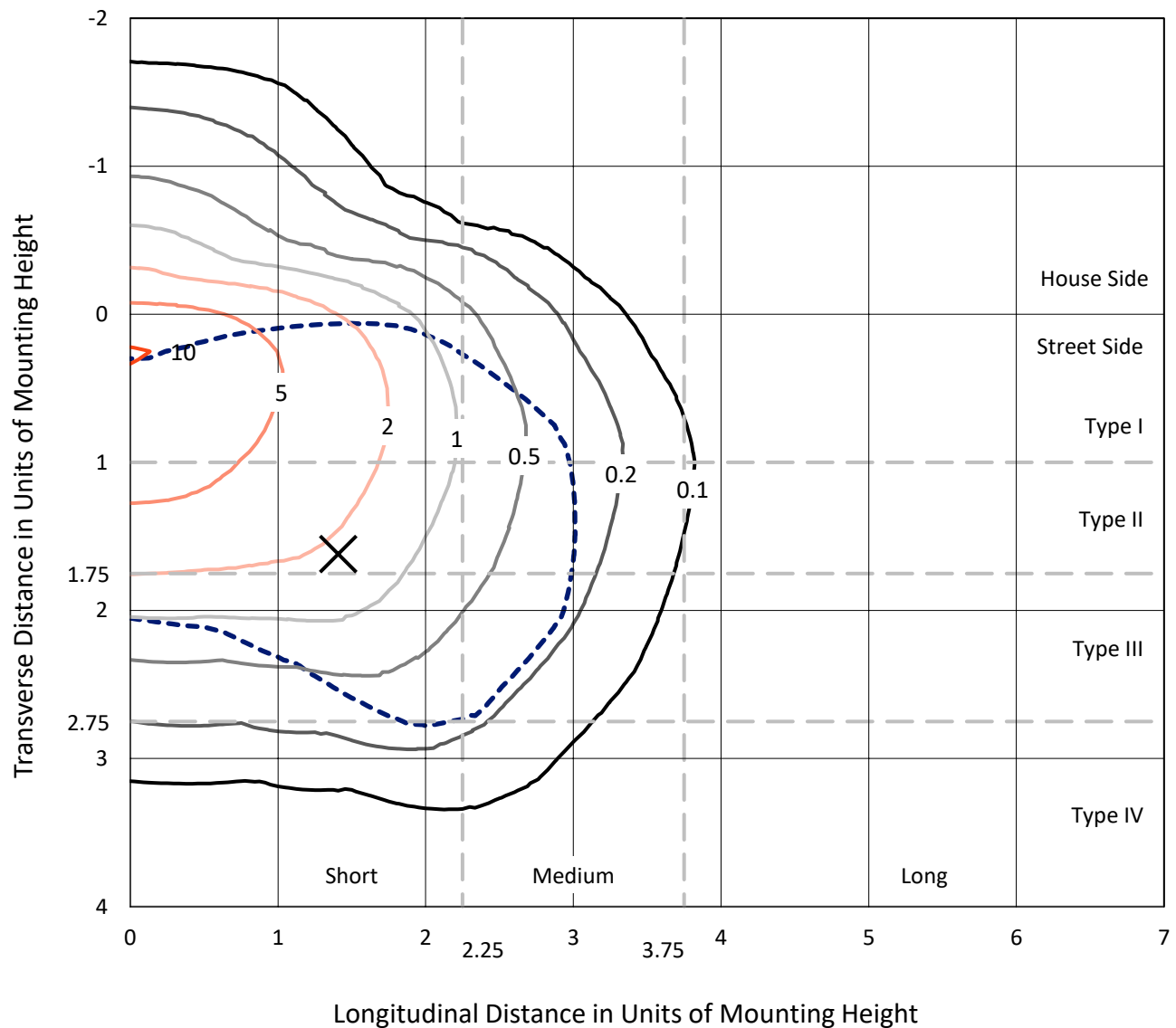
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

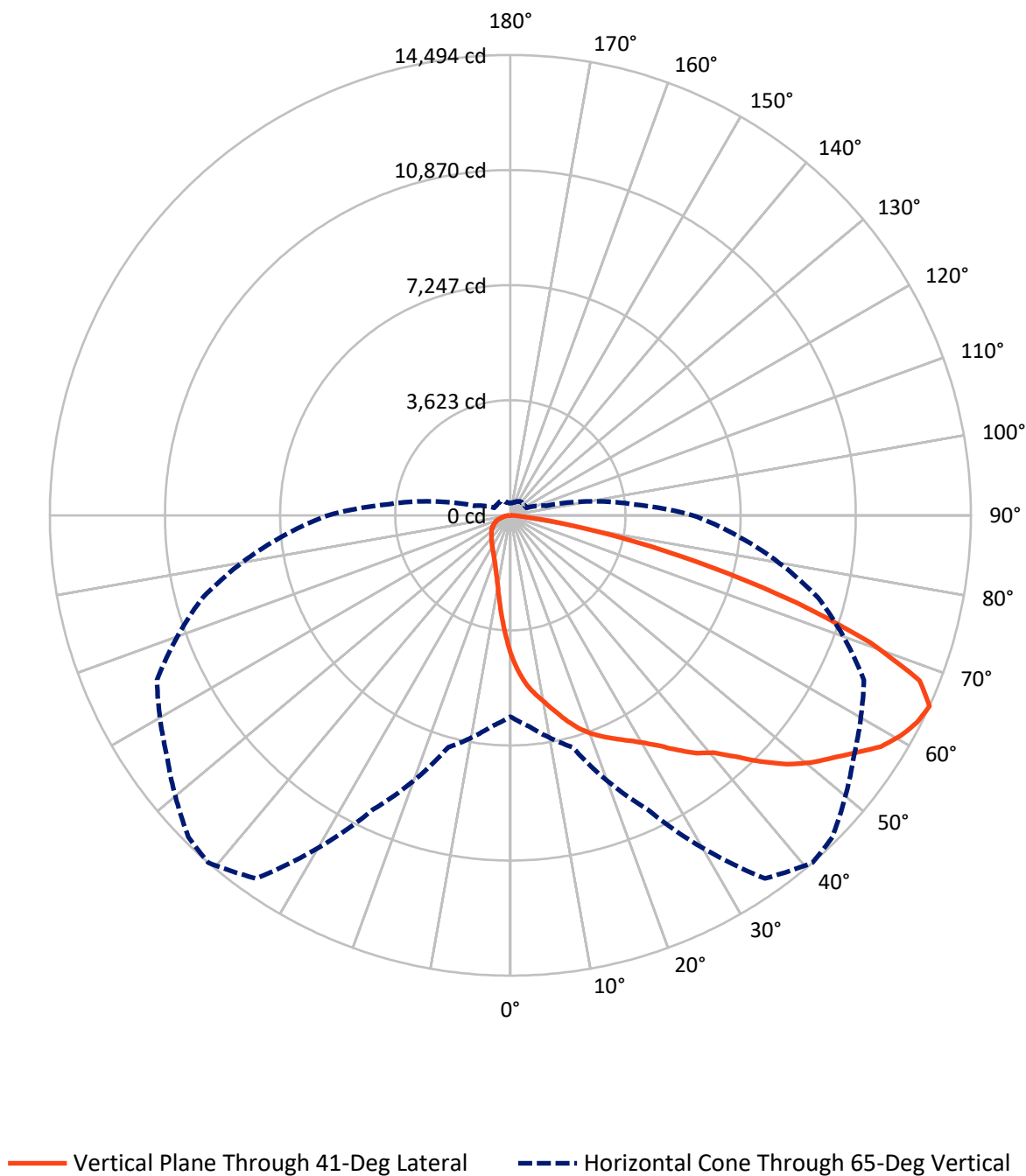
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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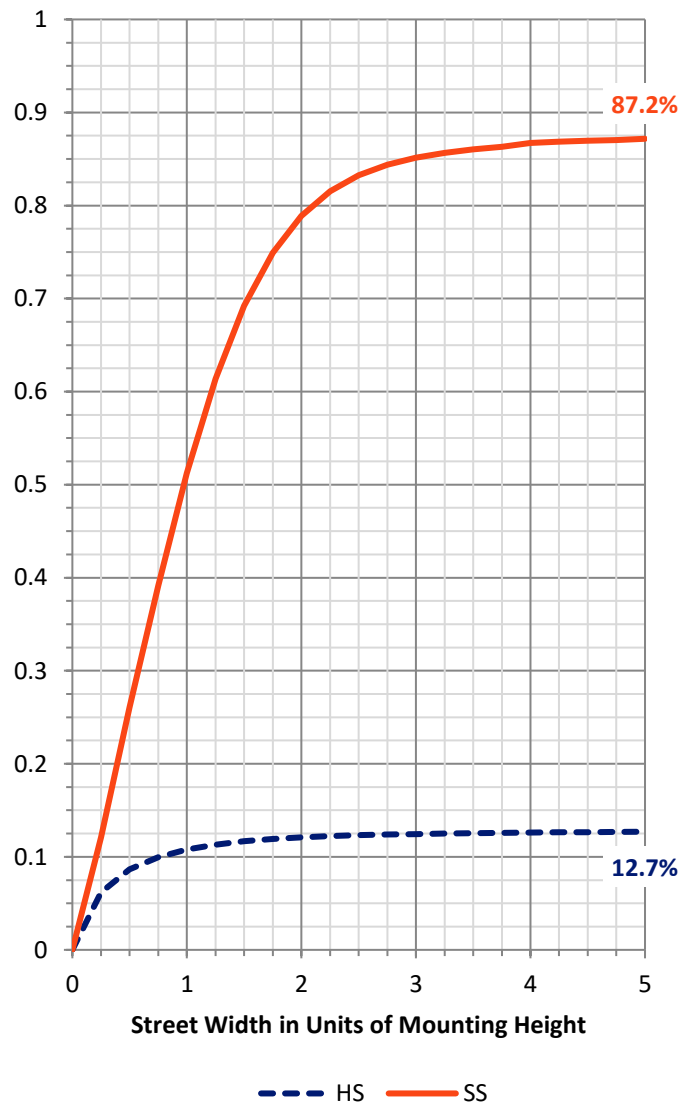
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.7	0.0	3329.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22605.3	0.0	22605.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	25935.0	0.0	25935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	1.6
10°-20°	1234.7	4.8
20°-30°	2124.1	8.2
30°-40°	3221.5	12.4
40°-50°	4719.6	18.2
50°-60°	5959.8	23.0
60°-70°	5588.4	21.5
70°-80°	2490.7	9.6
80°-90°	184.5	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°	25935.0	100.0
0°-180°	25935.0	100.0

Coefficient of Utilization



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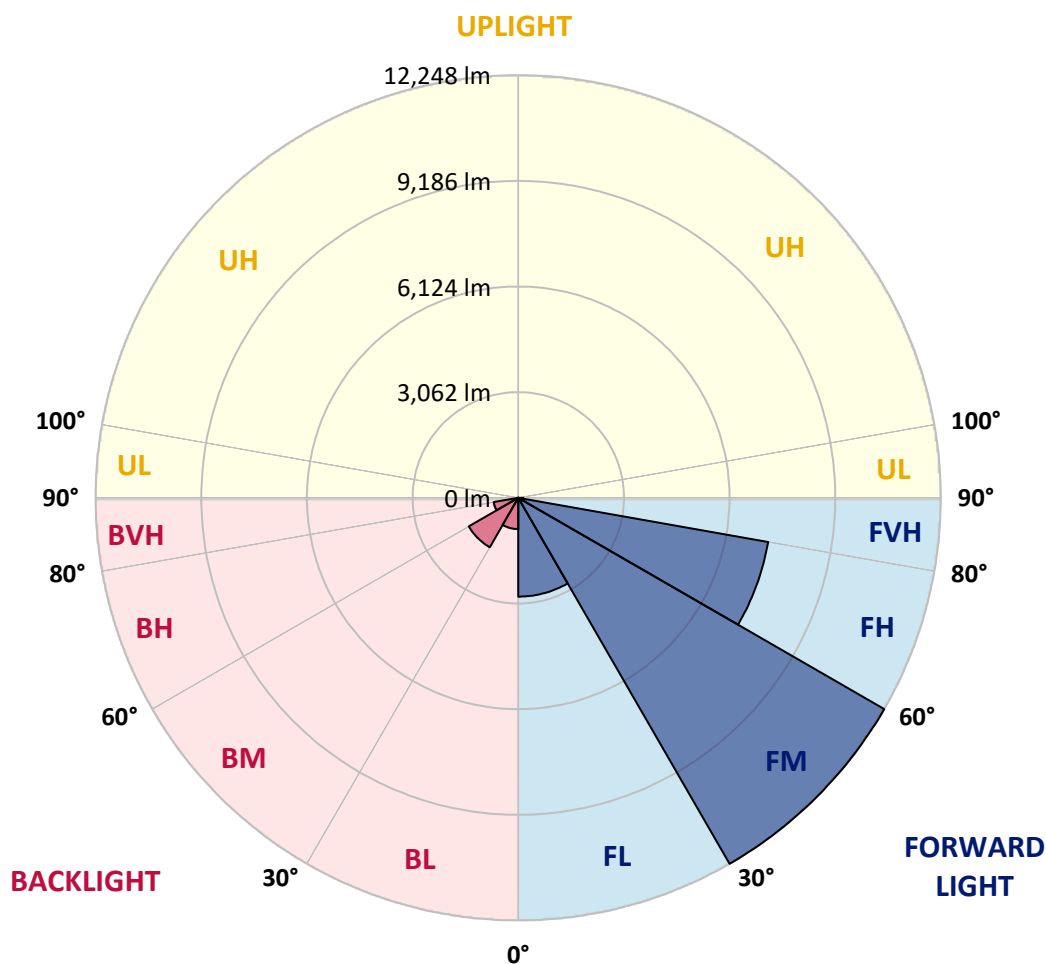
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2864.2	11.0			
FM	(30°-60°)	12247.5	47.2			
FH	(60°-80°)	7355.8	28.4			G3/7500
FVH	(80°-90°)	137.8	0.5			G2/225
BL	(0°-30°)	906.3	3.5	B2/1000		
BM	(30°-60°)	1653.3	6.4	B2/2500		
BH	(60°-80°)	723.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	46.7	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°	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2
2.5°	5097.4	5081.0	5070.0	5009.9	5009.9	4927.8	4933.3	4856.7	4763.8	4616.1	4457.5
5°	5578.7	5556.8	5529.5	5469.3	5447.4	5365.4	5354.4	5245.1	5086.4	4829.4	4545.0
7.5°	5999.8	5977.9	5939.7	5852.1	5792.0	5693.5	5666.2	5524.0	5349.0	5031.7	4632.5
10°	6382.7	6366.3	6317.0	6207.6	6125.6	6005.3	5956.1	5764.6	5545.9	5195.8	4703.6
12.5°	6771.0	6749.1	6683.5	6590.5	6492.1	6349.8	6289.7	6043.6	5764.6	5376.3	4807.5
15°	7132.0	7099.1	7049.9	6951.5	6864.0	6727.2	6661.6	6371.7	6032.6	5578.7	4944.2
17.5°	7367.1	7339.8	7296.0	7241.3	7170.2	7066.3	7000.7	6716.3	6300.6	5775.6	5086.4
20°	7509.3	7498.4	7482.0	7449.2	7416.4	7345.3	7296.0	7028.0	6590.5	5967.0	5223.2
22.5°	7618.7	7607.8	7602.3	7602.3	7607.8	7580.4	7547.6	7317.9	6869.4	6169.4	5349.0
25°	7788.3	7782.8	7771.9	7760.9	7799.2	7804.7	7793.7	7635.1	7219.5	6437.4	5507.6
27.5°	8023.5	8007.0	7985.2	7974.2	8012.5	8039.9	8061.7	7952.4	7591.4	6710.8	5688.1
30°	8384.4	8335.2	8280.5	8242.2	8269.6	8313.3	8362.5	8296.9	7974.2	7049.9	5874.0
32.5°	8811.0	8750.9	8625.1	8554.0	8625.1	8657.9	8696.2	8663.4	8373.5	7416.4	6060.0
35°	9330.6	9259.5	9128.2	9024.3	9150.1	9079.0	9062.6	9029.8	8750.9	7777.3	6267.8
37.5°	10194.8	10090.8	9883.0	9653.3	9653.3	9500.2	9440.0	9341.6	9090.0	8100.0	6470.2
40°	11195.6	11058.9	10790.9	10451.8	10140.1	9822.8	9784.6	9713.5	9489.2	8471.9	6699.9
42.5°	12295.0	12032.4	11660.5	11250.3	10747.2	10386.2	10298.7	10096.3	9877.5	8849.3	6929.6
45°	13514.6	12967.7	12426.2	12218.4	11387.1	11058.9	10894.8	10528.4	10282.3	9243.1	7170.2
47.5°	13711.5	13284.9	12923.9	12891.1	11983.2	11709.8	11523.8	10998.7	10719.8	9664.2	7421.8
50°	13602.1	13345.1	13383.4	13252.1	12420.8	12240.3	12098.1	11501.9	11151.9	10069.0	7651.5
52.5°	13142.7	13284.9	13503.7	13263.0	12836.4	12688.8	12617.7	12043.4	11556.6	10440.9	7859.4
55°	12595.8	12694.2	13164.6	13459.9	13317.7	13186.5	13120.8	12672.4	11955.9	10752.6	8050.8
57.5°	11797.3	11753.5	12273.1	13427.1	13820.9	13744.3	13673.2	13290.4	12327.8	10976.9	8171.1
60°	10599.5	10506.5	11162.8	12770.8	13985.0	14105.3	14072.5	13700.6	12612.2	10971.4	8121.9
62.5°	8526.6	8756.3	9664.2	11698.8	14056.1	14362.4	14302.2	13733.4	12705.2	10654.2	7810.1
65°	6338.9	6667.1	7558.6	10222.1	13957.6	14493.6	14329.5	13197.4	12273.1	10025.2	7126.5
67.5°	4566.9	4856.7	5507.6	8411.8	13011.4	13892.0	13700.6	12322.3	11277.7	9133.7	6180.3
70°	3123.0	3330.8	3773.8	6125.6	11108.1	12010.6	11890.2	11015.2	9708.0	8072.7	5020.8
72.5°	2204.1	2291.6	2576.0	4041.8	8439.1	9423.6	9281.4	9062.6	7799.2	6710.8	3905.1
75°	1651.7	1706.4	1859.6	2614.3	5693.5	6530.3	6399.1	6524.9	5824.8	5081.0	2844.0
77.5°	623.5	678.2	1055.6	1668.1	3369.1	4009.0	3877.7	3954.3	3237.8	2565.1	1416.5
80°	169.5	180.5	350.0	793.0	1531.4	1996.3	1815.8	1558.7	1203.2	1181.4	749.3
82.5°	71.1	82.0	158.6	426.6	546.9	546.9	459.4	568.8	459.4	552.4	361.0
85°	27.3	32.8	38.3	109.4	71.1	76.6	82.0	109.4	93.0	114.9	82.0
87.5°	0.0	0.0	0.0	5.5	5.5	10.9	5.5	10.9	16.4	16.4	16.4
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°	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2
2.5°	4391.8	4331.7	4244.2	4102.0	3954.3	3872.3	3768.3	3751.9	3642.5	3631.6	3587.9
5°	4419.2	4293.4	4069.2	3795.7	3527.7	3319.9	3166.7	3084.7	2926.1	2926.1	2882.3
7.5°	4441.1	4244.2	3883.2	3478.5	3112.0	2833.1	2625.3	2537.8	2395.6	2384.6	2351.8
10°	4446.5	4184.0	3680.8	3155.8	2707.3	2422.9	2220.5	2122.1	1996.3	1985.4	1963.5
12.5°	4490.3	4151.2	3500.3	2876.8	2417.4	2111.1	1914.3	1832.2	1733.8	1722.8	1700.9
15°	4561.4	4151.2	3347.2	2641.7	2160.4	1876.0	1706.4	1629.8	1558.7	1547.8	1536.9
17.5°	4632.5	4140.3	3194.1	2422.9	1947.1	1690.0	1542.3	1482.2	1427.5	1422.0	1411.1
20°	4698.1	4134.8	3040.9	2236.9	1783.0	1536.9	1422.0	1367.3	1323.6	1323.6	1318.1
22.5°	4763.8	4123.8	2893.3	2061.9	1640.8	1422.0	1323.6	1263.4	1230.6	1230.6	1225.1
25°	4862.2	4123.8	2756.5	1914.3	1525.9	1334.5	1236.1	1192.3	1165.0	1159.5	1159.5
27.5°	4977.1	4156.7	2636.2	1783.0	1427.5	1247.0	1170.4	1126.7	1093.9	1082.9	1088.4
30°	5102.8	4184.0	2526.8	1668.1	1334.5	1181.4	1099.3	1055.6	1022.8	1011.8	1017.3
32.5°	5228.6	4216.8	2428.4	1564.2	1241.5	1121.2	1039.2	989.9	957.1	951.7	951.7
35°	5365.4	4249.6	2329.9	1476.7	1165.0	1061.0	984.5	929.8	907.9	897.0	902.4
37.5°	5502.1	4304.3	2236.9	1394.7	1110.3	1006.3	935.2	880.6	864.1	858.7	858.7
40°	5666.2	4386.4	2198.7	1340.0	1061.0	957.1	897.0	842.3	825.9	825.9	825.9
42.5°	5802.9	4452.0	2165.8	1279.8	1022.8	913.4	858.7	814.9	804.0	798.5	804.0
45°	5939.7	4512.2	2122.1	1225.1	973.5	869.6	825.9	782.1	771.2	771.2	771.2
47.5°	6076.4	4545.0	2061.9	1170.4	929.8	831.3	793.0	754.8	743.8	743.8	743.8
50°	6185.8	4572.3	1974.4	1110.3	880.6	798.5	760.2	721.9	711.0	711.0	711.0
52.5°	6295.2	4577.8	1881.4	1039.2	831.3	760.2	727.4	689.1	678.2	672.7	672.7
55°	6393.6	4572.3	1772.1	957.1	776.6	716.5	689.1	656.3	634.4	612.6	623.5
57.5°	6464.7	4566.9	1646.3	875.1	721.9	672.7	661.8	618.0	574.3	519.6	530.5
60°	6437.4	4506.7	1509.5	771.2	661.8	629.0	629.0	568.8	492.2	464.9	470.4
62.5°	6262.3	4337.1	1367.3	661.8	601.6	585.2	579.7	514.1	454.0	426.6	432.1
65°	5737.3	3910.5	1159.5	563.3	541.5	536.0	536.0	475.8	421.1	388.3	393.8
67.5°	4938.8	3281.6	946.2	475.8	481.3	492.2	492.2	437.5	382.9	350.0	355.5
70°	3959.8	2565.1	754.8	410.2	415.7	432.1	443.0	393.8	344.6	311.7	311.7
72.5°	2980.8	1947.1	607.1	344.6	371.9	371.9	388.3	350.0	300.8	268.0	273.5
75°	2160.4	1394.7	481.3	289.9	322.7	317.2	317.2	295.3	257.1	235.2	235.2
77.5°	1022.8	732.9	382.9	207.8	251.6	246.1	251.6	235.2	218.8	196.9	202.4
80°	503.2	361.0	246.1	147.7	175.0	180.5	196.9	186.0	180.5	164.1	164.1
82.5°	240.6	142.2	114.9	103.9	120.3	125.8	136.7	136.7	142.2	131.3	131.3
85°	65.6	38.3	49.2	65.6	76.6	82.0	93.0	98.4	98.4	93.0	98.4
87.5°	16.4	16.4	21.9	32.8	38.3	43.8	49.2	49.2	21.9	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)