

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: P841961

Luminaire Tested: **ARCH4-250-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841961
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: ARCH4-250-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA 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: 25417 lumens
Efficiency: N/A
Efficacy: 101.9 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

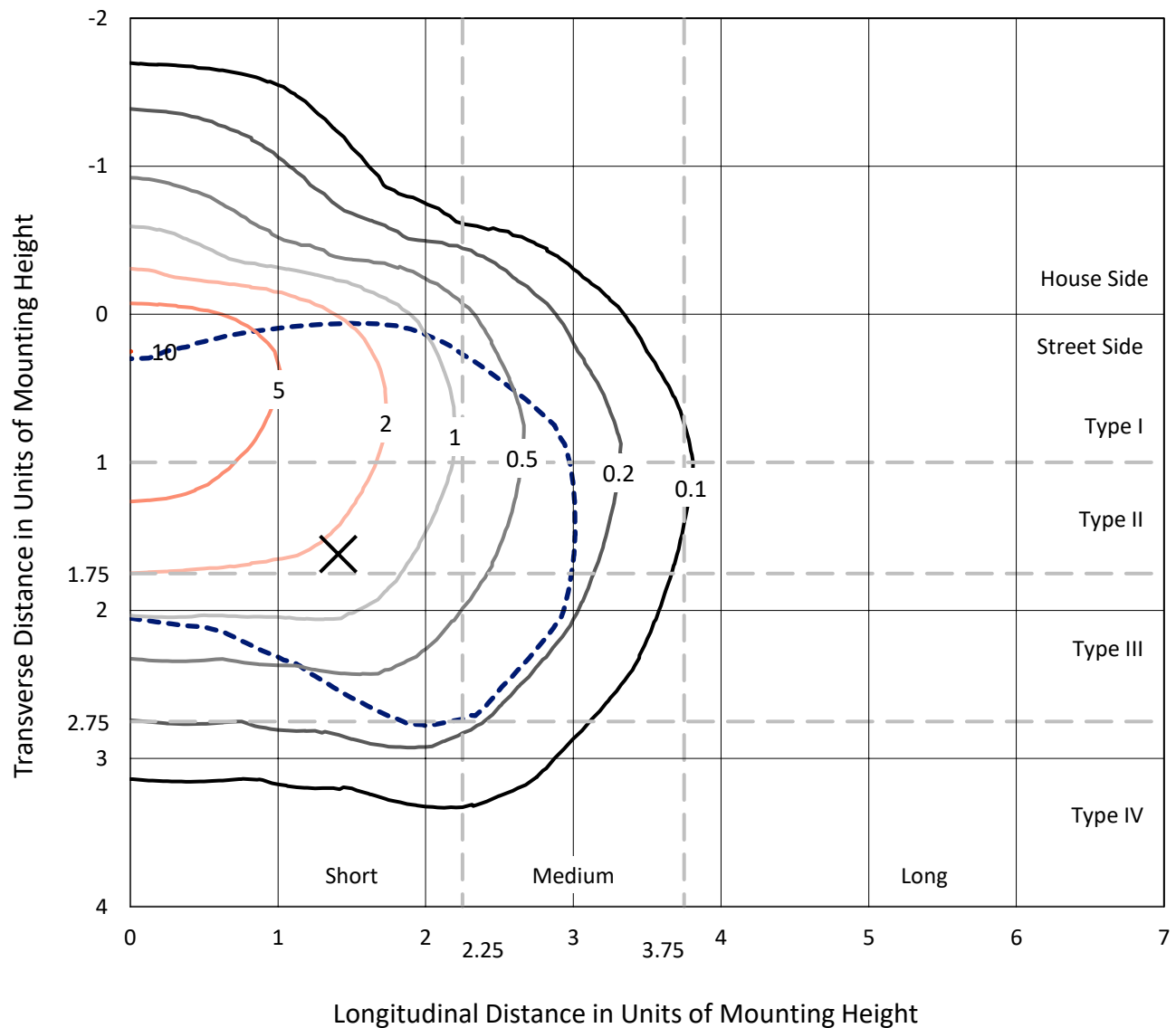
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

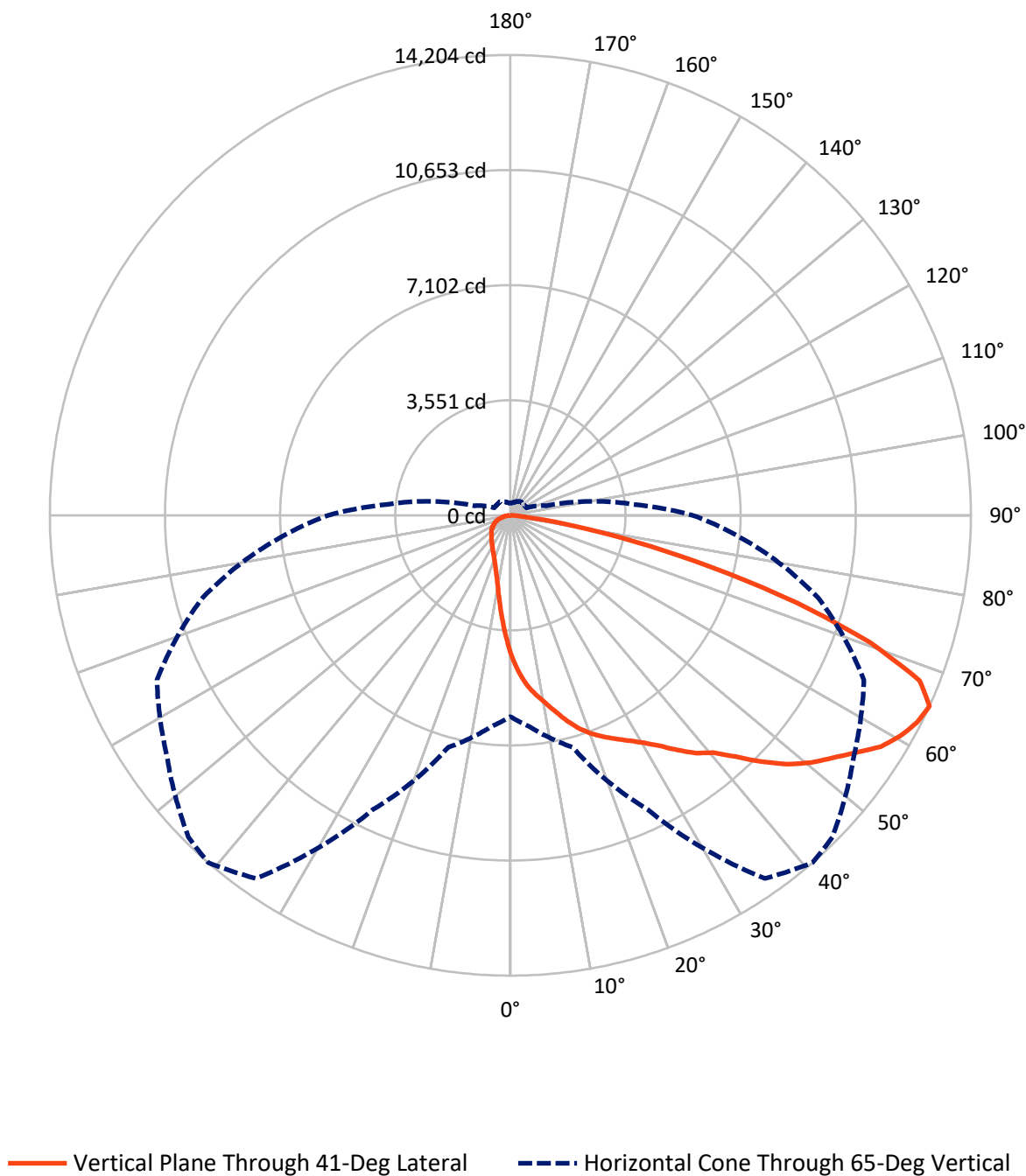
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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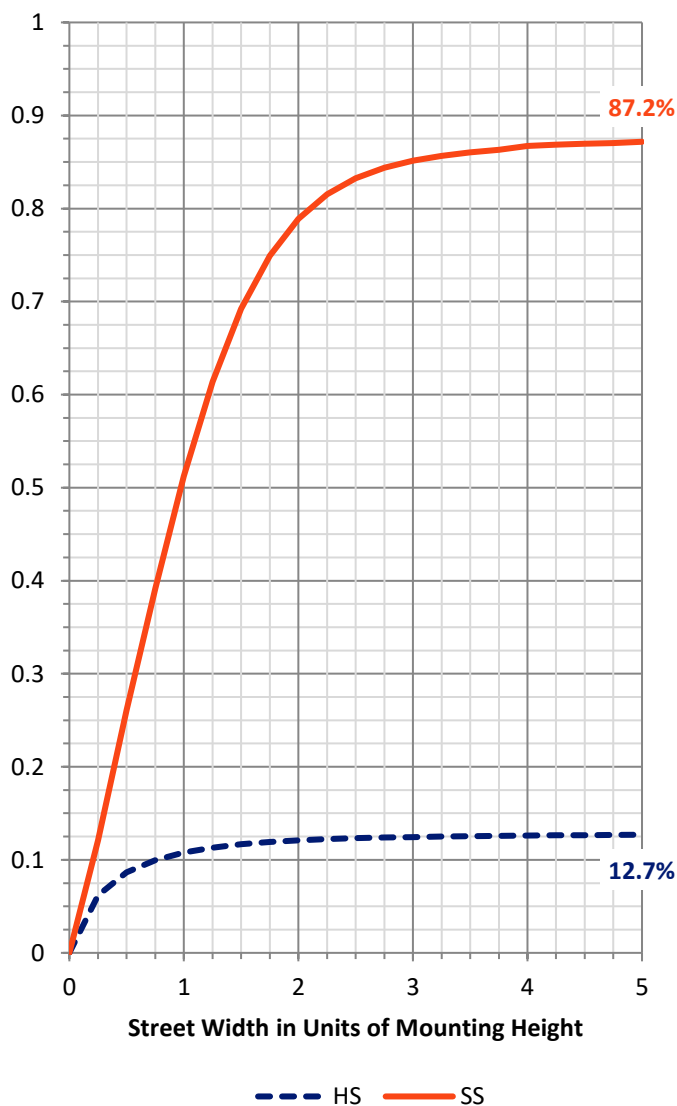
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3263.2	0.0	3263.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22153.9	0.0	22153.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	25417.0	0.0	25417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	1.6
10°-20°	1210.0	4.8
20°-30°	2081.6	8.2
30°-40°	3157.2	12.4
40°-50°	4625.3	18.2
50°-60°	5840.8	23.0
60°-70°	5476.8	21.5
70°-80°	2441.0	9.6
80°-90°	180.8	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°	25417.0	100.0
0°-180°	25417.0	100.0

Coefficient of Utilization



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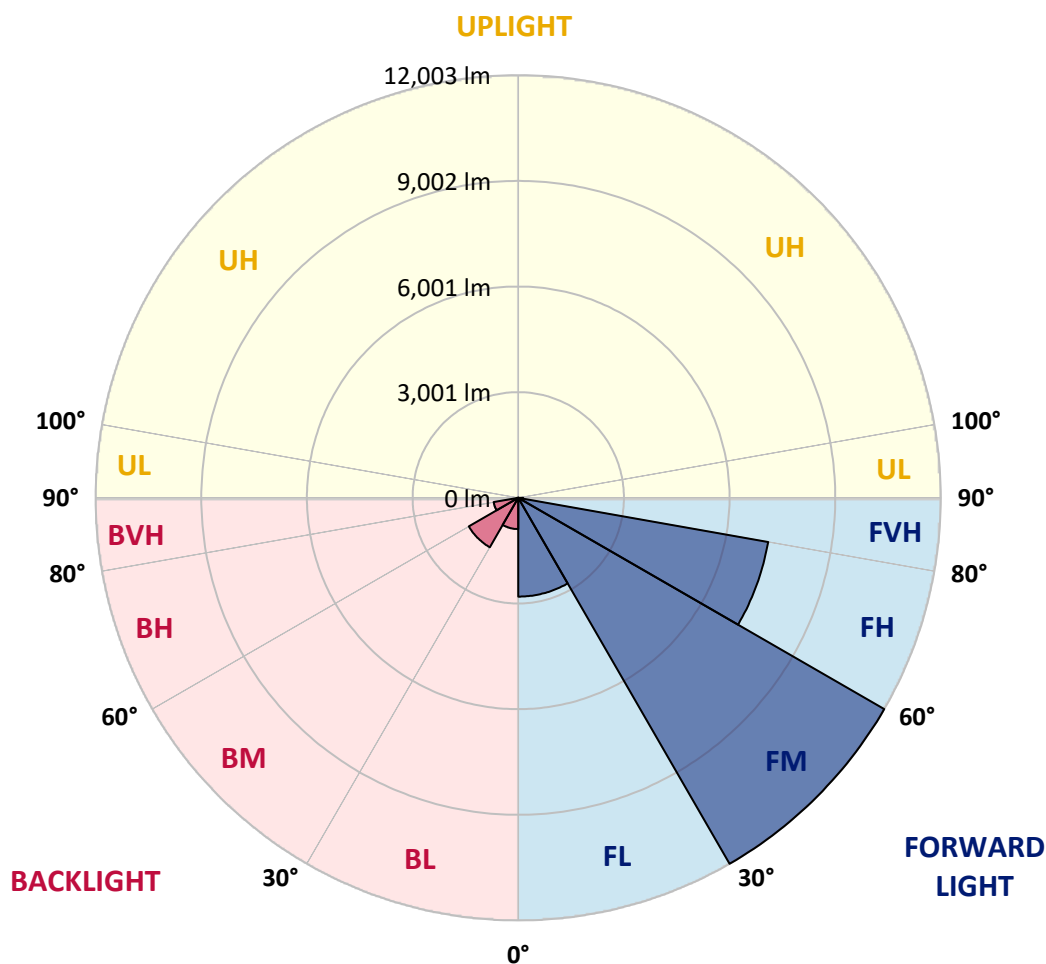
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2807.0	11.0			
FM	(30°-60°)	12002.9	47.2			
FH	(60°-80°)	7208.9	28.4			G3/7500
FVH	(80°-90°)	135.0	0.5			G2/225
BL	(0°-30°)	888.2	3.5	B2/1000		
BM	(30°-60°)	1620.3	6.4	B2/2500		
BH	(60°-80°)	708.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	45.8	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°	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9
2.5°	4995.6	4979.5	4968.8	4909.8	4909.8	4829.4	4834.8	4759.7	4668.6	4523.9	4368.4
5°	5467.3	5445.8	5419.0	5360.1	5338.6	5258.2	5247.5	5140.3	4984.9	4732.9	4454.2
7.5°	5880.0	5858.5	5821.0	5735.3	5676.3	5579.8	5553.0	5413.7	5242.1	4931.3	4540.0
10°	6255.2	6239.1	6190.9	6083.7	6003.3	5885.3	5837.1	5649.5	5435.1	5092.1	4609.6
12.5°	6635.7	6614.3	6550.0	6458.9	6362.4	6223.0	6164.1	5922.9	5649.5	5268.9	4711.5
15°	6989.5	6957.4	6909.1	6812.6	6726.9	6592.9	6528.5	6244.5	5912.1	5467.3	4845.5
17.5°	7220.0	7193.2	7150.3	7096.7	7027.0	6925.2	6860.9	6582.1	6174.8	5660.2	4984.9
20°	7359.4	7348.6	7332.6	7300.4	7268.2	7198.6	7150.3	6887.7	6458.9	5847.8	5118.9
22.5°	7466.6	7455.8	7450.5	7450.5	7455.8	7429.0	7396.9	7171.8	6732.2	6046.1	5242.1
25°	7632.7	7627.4	7616.6	7605.9	7643.4	7648.8	7638.1	7482.6	7075.3	6308.8	5397.6
27.5°	7863.2	7847.1	7825.7	7815.0	7852.5	7879.3	7900.7	7793.5	7439.8	6576.8	5574.5
30°	8217.0	8168.7	8115.1	8077.6	8104.4	8147.3	8195.5	8131.2	7815.0	6909.1	5756.7
32.5°	8635.0	8576.1	8452.8	8383.1	8452.8	8485.0	8522.5	8490.3	8206.2	7268.2	5938.9
35°	9144.3	9074.6	8945.9	8844.1	8967.4	8897.7	8881.6	8849.4	8576.1	7622.0	6142.6
37.5°	9991.1	9889.3	9685.6	9460.5	9460.5	9310.4	9251.5	9155.0	8908.4	7938.2	6340.9
40°	10972.0	10838.0	10575.4	10243.1	9937.5	9626.7	9589.1	9519.5	9299.7	8302.7	6566.1
42.5°	12049.4	11792.1	11427.6	11025.6	10532.5	10178.7	10093.0	9894.7	9680.3	8672.6	6791.2
45°	13244.7	12708.7	12178.0	11974.4	11159.6	10838.0	10677.2	10318.1	10076.9	9058.5	7027.0
47.5°	13437.7	13019.6	12665.8	12633.6	11743.9	11475.9	11293.6	10779.1	10505.7	9471.2	7273.6
50°	13330.5	13078.5	13116.1	12987.4	12172.7	11995.8	11856.4	11272.2	10929.2	9867.9	7498.7
52.5°	12880.2	13019.6	13234.0	12998.1	12580.0	12435.3	12365.6	11802.8	11325.8	10232.3	7702.4
55°	12344.2	12440.7	12901.7	13191.1	13051.7	12923.1	12858.8	12419.2	11717.1	10537.9	7890.0
57.5°	11561.6	11518.8	12028.0	13158.9	13544.9	13469.8	13400.1	13024.9	12081.6	10757.6	8007.9
60°	10387.8	10296.7	10939.9	12515.7	13705.7	13823.6	13791.4	13426.9	12360.3	10752.3	7959.7
62.5°	8356.3	8581.4	9471.2	11465.2	13775.3	14075.5	14016.5	13459.1	12451.4	10441.4	7654.2
65°	6212.3	6533.9	7407.6	10017.9	13678.9	14204.1	14043.3	12933.8	12028.0	9825.0	6984.2
67.5°	4475.6	4759.7	5397.6	8243.8	12751.6	13614.5	13426.9	12076.2	11052.4	8951.3	6056.9
70°	3060.6	3264.3	3698.4	6003.3	10886.3	11770.7	11652.8	10795.1	9514.1	7911.4	4920.5
72.5°	2160.1	2245.9	2524.6	3961.1	8270.6	9235.4	9096.0	8881.6	7643.4	6576.8	3827.1
75°	1618.7	1672.3	1822.4	2562.1	5579.8	6399.9	6271.3	6394.5	5708.5	4979.5	2787.2
77.5°	611.0	664.6	1034.5	1634.8	3301.8	3928.9	3800.3	3875.3	3173.2	2513.9	1388.3
80°	166.2	176.9	343.0	777.2	1500.8	1956.4	1779.5	1527.6	1179.2	1157.8	734.3
82.5°	69.7	80.4	155.4	418.1	536.0	536.0	450.2	557.4	450.2	541.4	353.8
85°	26.8	32.2	37.5	107.2	69.7	75.0	80.4	107.2	91.1	112.6	80.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.7	5.4	10.7	16.1	16.1	16.1
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°	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9	4330.9
2.5°	4304.1	4245.2	4159.4	4020.0	3875.3	3794.9	3693.1	3677.0	3569.8	3559.1	3516.2
5°	4330.9	4207.6	3987.9	3719.9	3457.2	3253.6	3103.5	3023.1	2867.6	2867.6	2824.7
7.5°	4352.4	4159.4	3805.6	3409.0	3049.9	2776.5	2572.8	2487.1	2347.7	2337.0	2304.8
10°	4357.7	4100.4	3607.3	3092.8	2653.2	2374.5	2176.2	2079.7	1956.4	1945.7	1924.3
12.5°	4400.6	4068.3	3430.4	2819.4	2369.1	2069.0	1876.0	1795.6	1699.1	1688.4	1667.0
15°	4470.3	4068.3	3280.4	2588.9	2117.2	1838.5	1672.3	1597.3	1527.6	1516.9	1506.2
17.5°	4540.0	4057.6	3130.3	2374.5	1908.2	1656.3	1511.5	1452.6	1399.0	1393.6	1382.9
20°	4604.3	4052.2	2980.2	2192.3	1747.4	1506.2	1393.6	1340.0	1297.1	1297.1	1291.8
22.5°	4668.6	4041.5	2835.5	2020.7	1608.0	1393.6	1297.1	1238.2	1206.0	1206.0	1200.7
25°	4765.1	4041.5	2701.5	1876.0	1495.5	1307.9	1211.4	1168.5	1141.7	1136.3	1136.3
27.5°	4877.6	4073.6	2583.5	1747.4	1399.0	1222.1	1147.1	1104.2	1072.0	1061.3	1066.7
30°	5000.9	4100.4	2476.3	1634.8	1307.9	1157.8	1077.4	1034.5	1002.3	991.6	997.0
32.5°	5124.2	4132.6	2379.9	1533.0	1216.7	1098.8	1018.4	970.2	938.0	932.6	932.6
35°	5258.2	4164.8	2283.4	1447.2	1141.7	1039.9	964.8	911.2	889.8	879.0	884.4
37.5°	5392.2	4218.4	2192.3	1366.8	1088.1	986.3	916.6	863.0	846.9	841.5	841.5
40°	5553.0	4298.8	2154.7	1313.2	1039.9	938.0	879.0	825.4	809.4	809.4	809.4
42.5°	5687.0	4363.1	2122.6	1254.3	1002.3	895.1	841.5	798.6	787.9	782.6	787.9
45°	5821.0	4422.0	2079.7	1200.7	954.1	852.2	809.4	766.5	755.8	755.8	755.8
47.5°	5955.0	4454.2	2020.7	1147.1	911.2	814.7	777.2	739.7	729.0	729.0	729.0
50°	6062.2	4481.0	1935.0	1088.1	863.0	782.6	745.0	707.5	696.8	696.8	696.8
52.5°	6169.4	4486.4	1843.9	1018.4	814.7	745.0	712.9	675.4	664.6	659.3	659.3
55°	6265.9	4481.0	1736.7	938.0	761.1	702.2	675.4	643.2	621.8	600.3	611.0
57.5°	6335.6	4475.6	1613.4	857.6	707.5	659.3	648.6	605.7	562.8	509.2	519.9
60°	6308.8	4416.7	1479.4	755.8	648.6	616.4	616.4	557.4	482.4	455.6	461.0
62.5°	6137.3	4250.5	1340.0	648.6	589.6	573.5	568.2	503.8	444.9	418.1	423.4
65°	5622.7	3832.4	1136.3	552.1	530.6	525.3	525.3	466.3	412.7	380.6	385.9
67.5°	4840.1	3216.0	927.3	466.3	471.7	482.4	482.4	428.8	375.2	343.0	348.4
70°	3880.7	2513.9	739.7	402.0	407.4	423.4	434.2	385.9	337.7	305.5	305.5
72.5°	2921.2	1908.2	595.0	337.7	364.5	364.5	380.6	343.0	294.8	262.6	268.0
75°	2117.2	1366.8	471.7	284.1	316.2	310.9	310.9	289.4	251.9	230.5	230.5
77.5°	1002.3	718.2	375.2	203.7	246.6	241.2	246.6	230.5	214.4	193.0	198.3
80°	493.1	353.8	241.2	144.7	171.5	176.9	193.0	182.2	176.9	160.8	160.8
82.5°	235.8	139.4	112.6	101.8	117.9	123.3	134.0	134.0	139.4	128.6	128.6
85°	64.3	37.5	48.2	64.3	75.0	80.4	91.1	96.5	96.5	91.1	96.5
87.5°	16.1	16.1	21.4	32.2	37.5	42.9	48.2	48.2	21.4	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)