

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: P841832

Luminaire Tested: **ARCH4-230-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36524 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 231.2
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

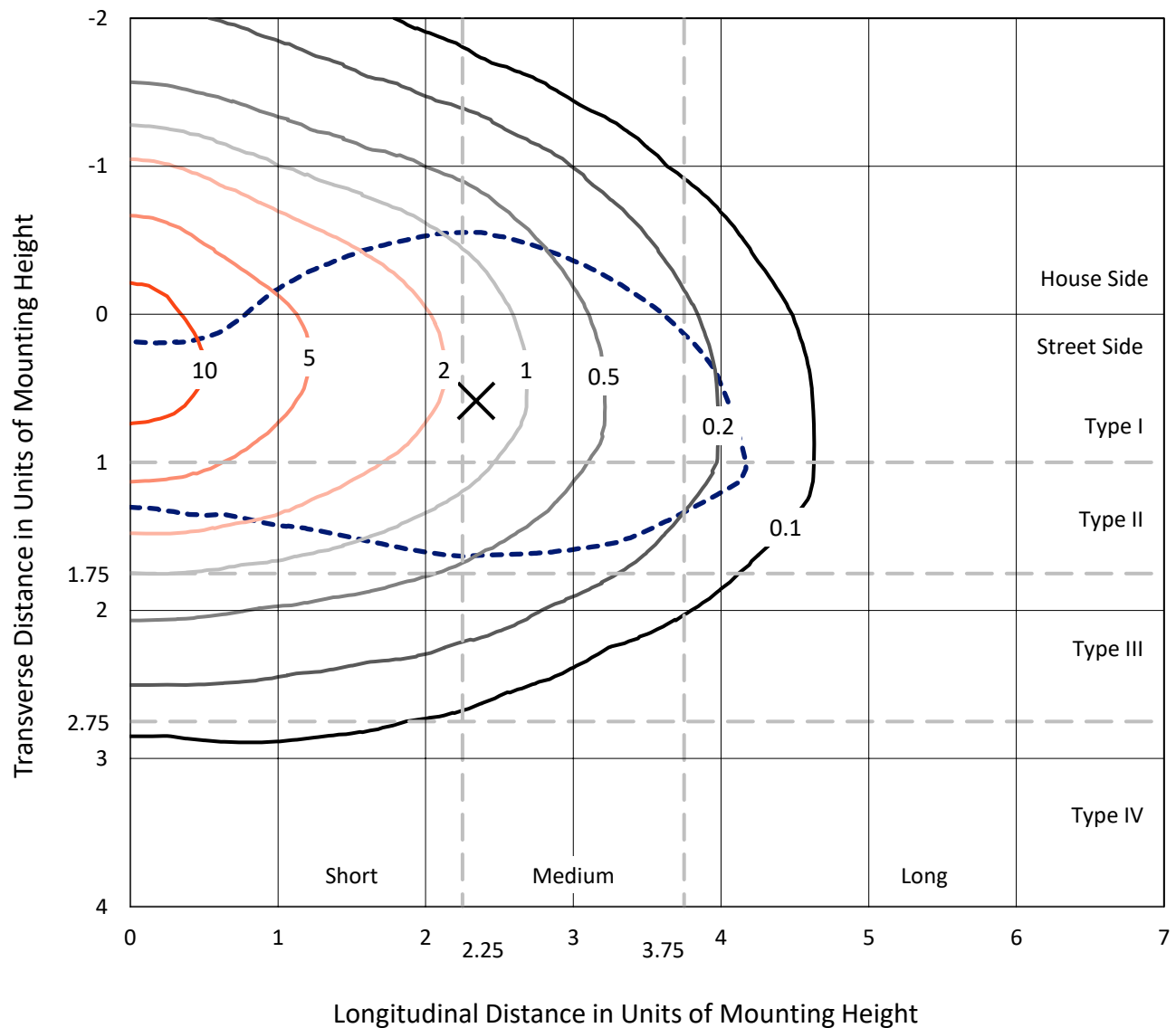


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Iso-Footcandle Lines of Horizontal Illumination

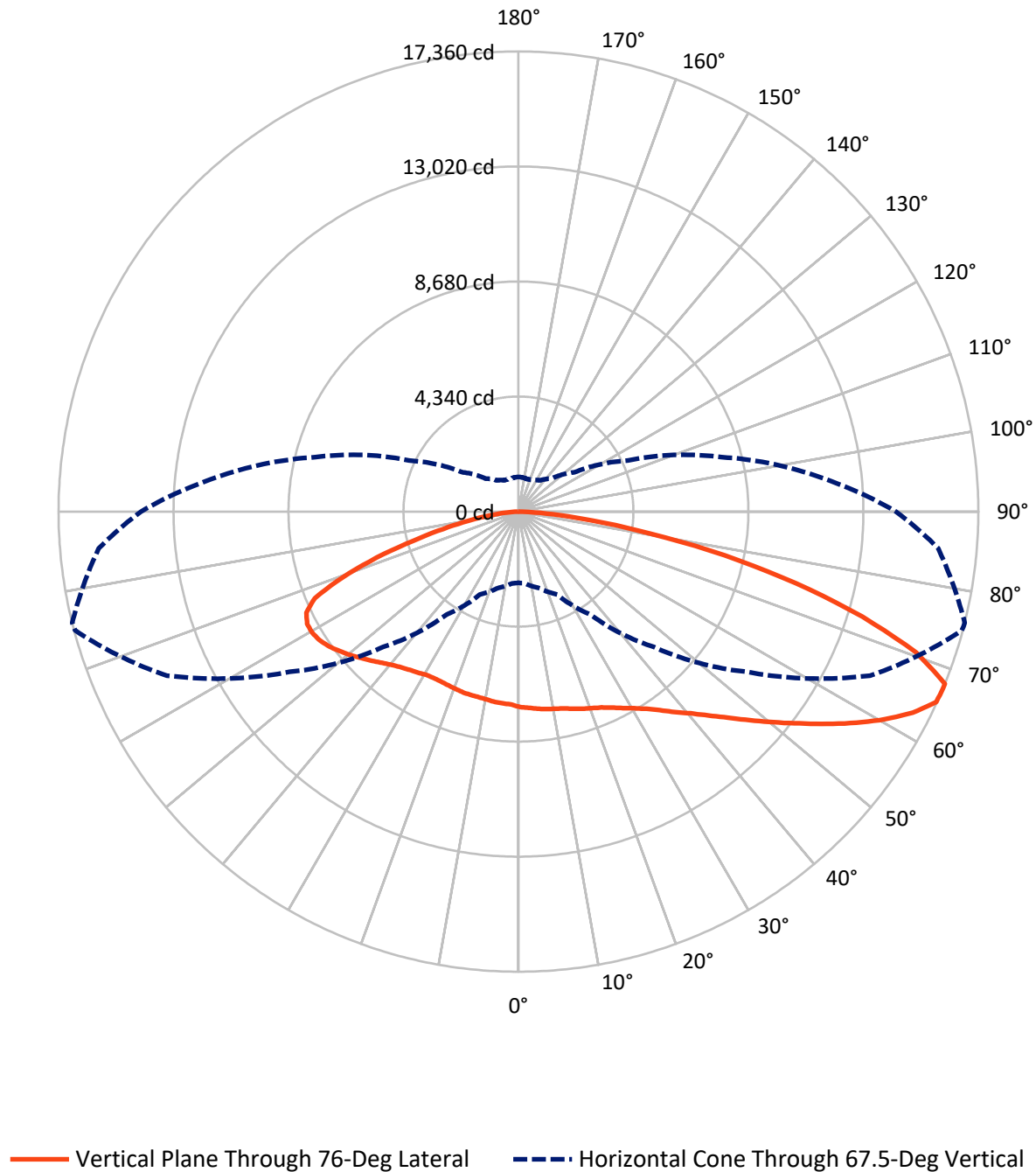
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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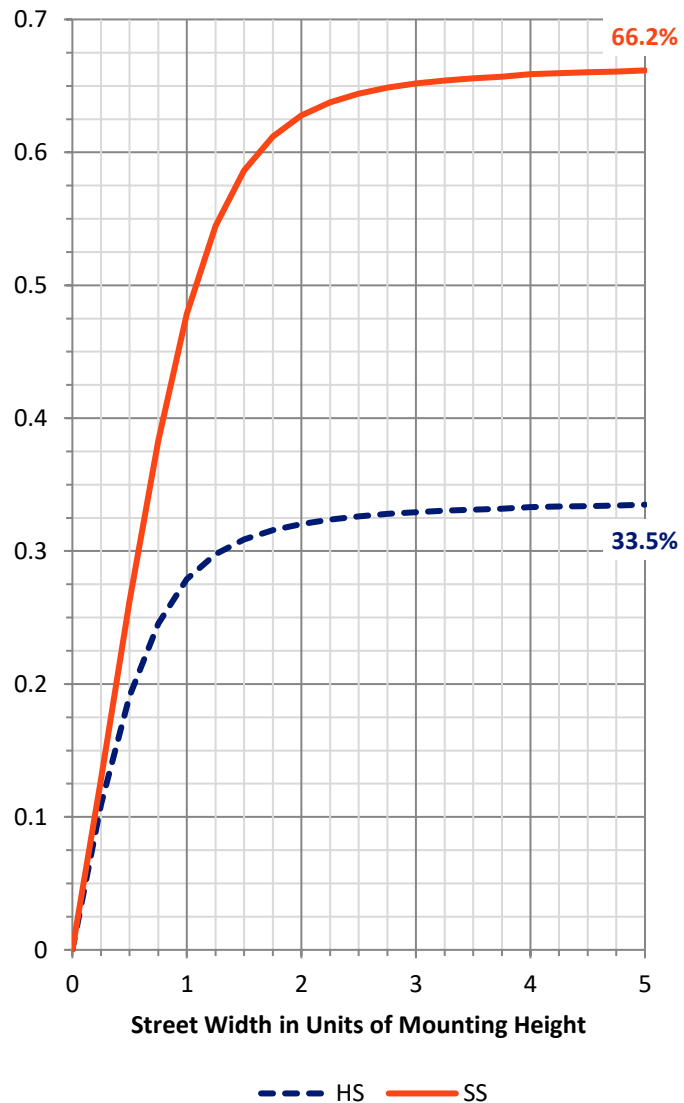
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12341.7	0.0	12341.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	24182.4	0.0	24182.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	36524.0	0.0	36524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.4	1.9
10°-20°	2174.9	6.0
20°-30°	3695.3	10.1
30°-40°	5257.9	14.4
40°-50°	6640.5	18.2
50°-60°	7189.6	19.7
60°-70°	6687.2	18.3
70°-80°	3591.6	9.8
80°-90°	575.5	1.6
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°	36524.0	100.0
0°-180°	36524.0	100.0

Coefficient of Utilization



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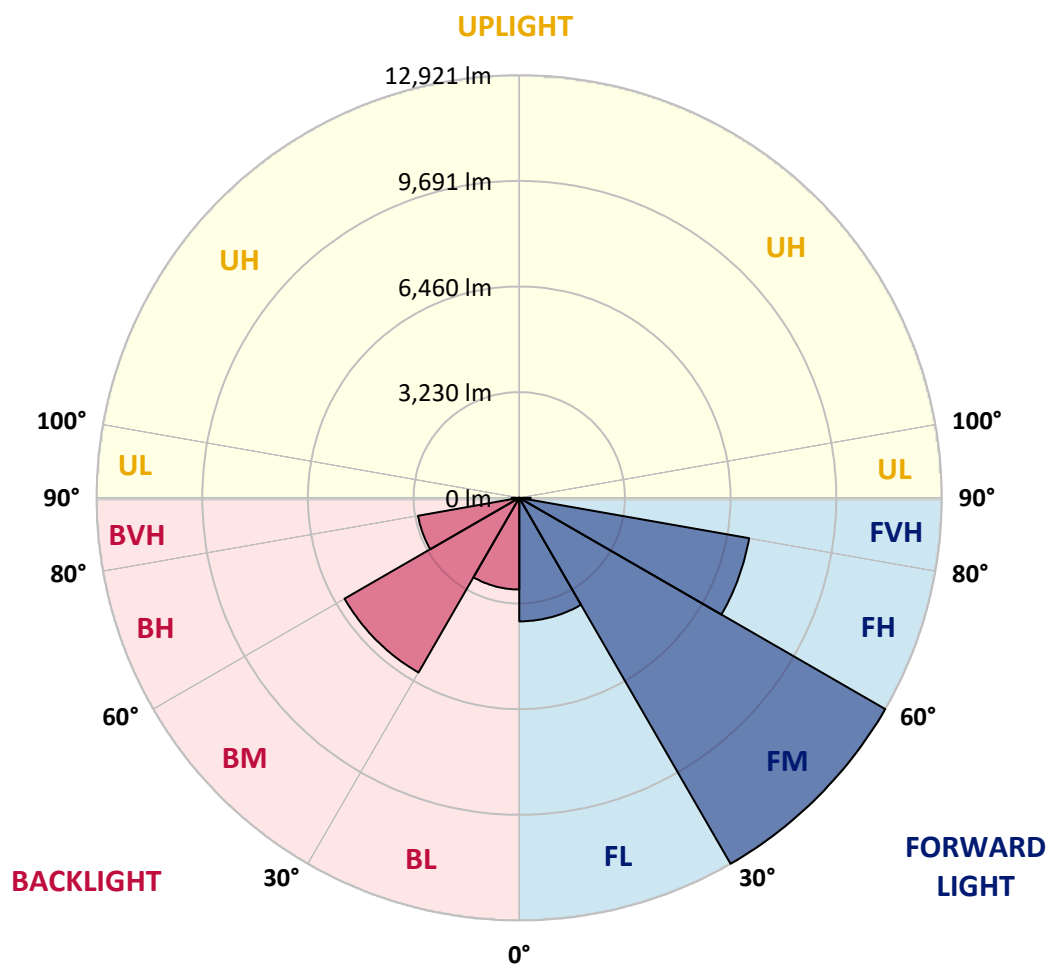
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3777.0	10.3			
FM	(30°-60°)	12920.8	35.4			
FH	(60°-80°)	7136.4	19.5			G3/7500
FVH	(80°-90°)	348.1	1.0			G3/500
BL	(0°-30°)	2804.7	7.7	B4/5000		
BM	(30°-60°)	6167.3	16.9	B4/8500		
BH	(60°-80°)	3142.3	8.6	B4/5000		G4/5000
BVH	(80°-90°)	227.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8
2.5°	7601.5	7588.0	7533.7	7540.5	7540.5	7533.7	7452.4	7418.5	7418.5	7411.7	7337.1
5°	7872.8	7852.4	7791.4	7777.8	7750.7	7716.8	7588.0	7513.4	7479.5	7472.7	7371.0
7.5°	8191.5	8164.4	8089.8	8049.1	7981.3	7893.1	7730.4	7615.1	7533.7	7527.0	7384.5
10°	8510.2	8483.1	8394.9	8320.3	8225.4	8083.0	7872.8	7703.3	7574.4	7560.9	7391.3
12.5°	8889.9	8862.8	8754.3	8659.4	8517.0	8327.1	8049.1	7818.5	7642.2	7621.9	7411.7
15°	9290.0	9249.3	9140.8	9032.3	8856.0	8611.9	8279.6	7974.5	7750.7	7716.8	7472.7
17.5°	9622.3	9568.0	9479.9	9371.4	9174.7	8889.9	8510.2	8130.5	7852.4	7825.3	7533.7
20°	9907.1	9866.4	9771.5	9669.8	9459.5	9147.6	8727.2	8286.4	7947.4	7913.5	7581.2
22.5°	10178.3	10124.1	10069.8	9995.2	9764.7	9418.9	8978.1	8476.3	8069.4	8028.7	7642.2
25°	10490.3	10429.2	10408.9	10368.2	10097.0	9744.3	9283.2	8713.6	8239.0	8191.5	7750.7
27.5°	10876.8	10809.0	10768.3	10768.3	10442.8	10076.6	9608.7	8991.7	8435.6	8394.9	7886.3
30°	11283.6	11202.3	11141.2	11141.2	10775.1	10408.9	9927.4	9269.7	8659.4	8611.9	8062.7
32.5°	11643.0	11561.7	11493.9	11487.1	11107.3	10741.2	10259.7	9574.8	8930.6	8869.6	8279.6
35°	11921.1	11846.5	11785.4	11799.0	11439.6	11080.2	10632.7	9981.7	9269.7	9201.9	8564.4
37.5°	12090.6	12063.5	12029.6	12077.0	11744.8	11405.7	11019.2	10375.0	9656.2	9595.2	8917.1
40°	12178.7	12158.4	12294.0	12355.0	12002.4	11697.3	11405.7	10781.8	10076.6	10008.8	9323.9
42.5°	12307.6	12477.1	12531.4	12517.8	12192.3	11921.1	11758.3	11222.6	10571.6	10510.6	9812.2
45°	11846.5	11805.8	12104.1	12266.9	12205.9	12063.5	12090.6	11751.5	11148.0	11087.0	10375.0
47.5°	11229.4	11175.1	11344.7	11744.8	11982.1	12117.7	12389.0	12300.8	11812.6	11758.3	11032.7
50°	9927.4	10002.0	10632.7	11168.4	11636.3	12104.1	12639.9	12890.7	12544.9	12490.7	11738.0
52.5°	8483.1	8557.7	9215.4	10449.6	11215.8	12002.4	12822.9	13480.7	13338.3	13277.3	12490.7
55°	7432.0	7594.8	8340.7	9235.8	10619.1	11683.7	12931.4	14084.2	14192.7	14138.5	13311.2
57.5°	6387.7	6509.8	7072.6	7866.0	9805.4	11127.7	12924.7	14647.0	15087.8	15033.6	14145.2
60°	5160.4	5316.3	5763.9	6618.3	8720.4	10463.1	12734.8	15087.8	15949.0	15908.3	14952.2
62.5°	4319.5	4367.0	4685.7	5424.8	7323.5	9622.3	12307.6	15325.1	16728.8	16701.7	15677.8
65°	3478.7	3485.5	3777.0	4394.1	5974.1	8578.0	11582.0	15237.0	17318.8	17332.3	16199.9
67.5°	2685.3	2719.2	2983.7	3451.5	4746.7	7221.8	10544.5	14640.3	17325.5	17359.5	15901.5
70°	1858.0	1885.1	2285.2	2739.5	3668.5	5757.1	9140.8	13060.3	15901.5	15928.7	14253.7
72.5°	1308.7	1322.3	1749.5	2190.3	2868.4	4339.9	6896.3	10802.2	13555.3	13575.6	11988.9
75°	976.5	990.0	1234.1	1661.4	2197.1	3004.0	4712.8	8272.9	10829.3	10829.3	9466.3
77.5°	691.7	698.4	800.2	1146.0	1464.7	2027.5	2834.5	5418.0	7947.4	7960.9	6896.3
80°	467.9	474.7	522.1	773.0	915.4	1098.5	1539.3	2841.3	5011.2	5031.5	4380.5
82.5°	244.1	257.7	291.6	393.3	461.1	610.3	793.4	1444.4	2773.4	2827.7	2631.0
85°	94.9	94.9	108.5	128.8	169.5	237.3	366.2	549.3	1254.5	1295.2	1159.6
87.5°	33.9	33.9	40.7	40.7	47.5	54.2	61.0	81.4	142.4	142.4	135.6
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°	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8	7377.8
2.5°	7310.0	7310.0	7276.1	7289.6	7282.8	7269.3	7255.7	7276.1	7255.7	7208.2	7201.5
5°	7323.5	7310.0	7255.7	7248.9	7228.6	7201.5	7167.6	7181.1	7147.2	7106.5	7099.7
7.5°	7330.3	7303.2	7228.6	7201.5	7160.8	7106.5	7052.3	7052.3	7004.8	6964.1	6957.3
10°	7316.7	7282.8	7181.1	7126.9	7052.3	6970.9	6896.3	6876.0	6821.7	6774.3	6774.3
12.5°	7323.5	7276.1	7147.2	7059.1	6957.3	6855.6	6760.7	6733.6	6686.1	6638.6	6631.9
15°	7364.2	7296.4	7133.7	7018.4	6869.2	6753.9	6652.2	6631.9	6591.2	6557.3	6557.3
17.5°	7404.9	7316.7	7113.3	6950.6	6767.5	6638.6	6543.7	6543.7	6516.6	6496.2	6496.2
20°	7425.2	7323.5	7072.6	6855.6	6645.4	6509.8	6421.6	6435.2	6428.4	6421.6	6421.6
22.5°	7472.7	7337.1	7038.7	6767.5	6516.6	6374.2	6292.8	6313.1	6306.4	6306.4	6313.1
25°	7547.3	7371.0	7011.6	6686.1	6394.5	6238.6	6150.4	6164.0	6164.0	6164.0	6164.0
27.5°	7649.0	7438.8	7004.8	6611.5	6272.5	6096.2	5987.7	5987.7	5960.5	5967.3	5974.1
30°	7805.0	7567.6	7018.4	6543.7	6143.6	5919.8	5791.0	5770.7	5763.9	5777.4	5784.2
32.5°	7994.8	7743.9	7099.7	6496.2	6008.0	5723.2	5560.4	5553.7	5533.3	5533.3	5533.3
35°	8232.2	7913.5	7174.3	6489.5	5872.4	5513.0	5336.7	5316.3	5268.9	5248.5	5248.5
37.5°	8537.3	8177.9	7262.5	6442.0	5757.1	5309.6	5099.3	5031.5	4977.3	4970.5	4970.5
40°	8910.3	8476.3	7391.3	6387.7	5635.0	5099.3	4821.3	4706.0	4712.8	4739.9	4739.9
42.5°	9351.0	8842.5	7554.1	6360.6	5458.7	4882.3	4495.8	4360.2	4407.7	4434.8	4441.6
45°	9866.4	9276.5	7737.2	6326.7	5296.0	4638.2	4150.0	3980.5	4000.8	4007.6	4014.4
47.5°	10463.1	9757.9	7927.0	6299.6	5112.9	4333.1	3770.3	3546.5	3539.7	3499.0	3512.6
50°	11087.0	10266.5	8123.7	6252.1	4889.1	3973.7	3370.2	3105.7	3051.5	2990.4	2997.2
52.5°	11751.5	10788.6	8306.8	6177.5	4611.1	3607.5	2990.4	2705.6	2597.1	2529.3	2542.9
55°	12483.9	11324.3	8483.1	6062.2	4319.5	3241.3	2651.4	2359.8	2224.2	2169.9	2176.7
57.5°	13155.2	11839.7	8611.9	5919.8	4000.8	2909.1	2353.0	2068.2	1980.1	1973.3	1980.1
60°	13806.2	12273.7	8666.2	5723.2	3675.3	2603.9	2075.0	1858.0	1797.0	1830.9	1837.7
62.5°	14355.5	12551.7	8639.0	5458.7	3343.1	2312.3	1851.2	1695.3	1654.6	1722.4	1729.2
65°	14674.2	12639.9	8449.2	5079.0	2983.7	2027.5	1641.0	1471.5	1451.1	1491.8	1512.2
67.5°	14253.7	12090.6	7933.8	4556.9	2583.6	1763.1	1437.6	1302.0	1268.1	1302.0	1302.0
70°	12633.1	10476.7	6713.2	3729.6	2142.8	1505.4	1247.7	1152.8	1125.7	1152.8	1146.0
72.5°	10524.2	8713.6	5289.2	2909.1	1688.5	1268.1	1085.0	996.8	969.7	942.6	929.0
75°	8164.4	6618.3	3838.1	2136.0	1274.8	1017.2	908.7	827.3	759.5	786.6	773.0
77.5°	5980.9	4645.0	2719.2	1478.3	915.4	786.6	712.0	651.0	603.5	657.8	651.0
80°	3851.6	3004.0	1817.3	990.0	630.6	549.3	522.1	488.2	535.7	698.4	712.0
82.5°	2353.0	1905.5	1085.0	644.2	413.6	366.2	339.1	339.1	549.3	603.5	610.3
85°	1051.1	1010.4	590.0	332.3	230.6	210.2	189.9	244.1	223.8	162.7	169.5
87.5°	169.5	176.3	128.8	115.3	88.2	88.2	67.8	47.5	33.9	20.3	20.3
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)