

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: P842084

Luminaire Tested: **ARCH4-270-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842084
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: ARCH4-270-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33755 lumens
Efficiency: N/A
Efficacy: 125.5 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): 269
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

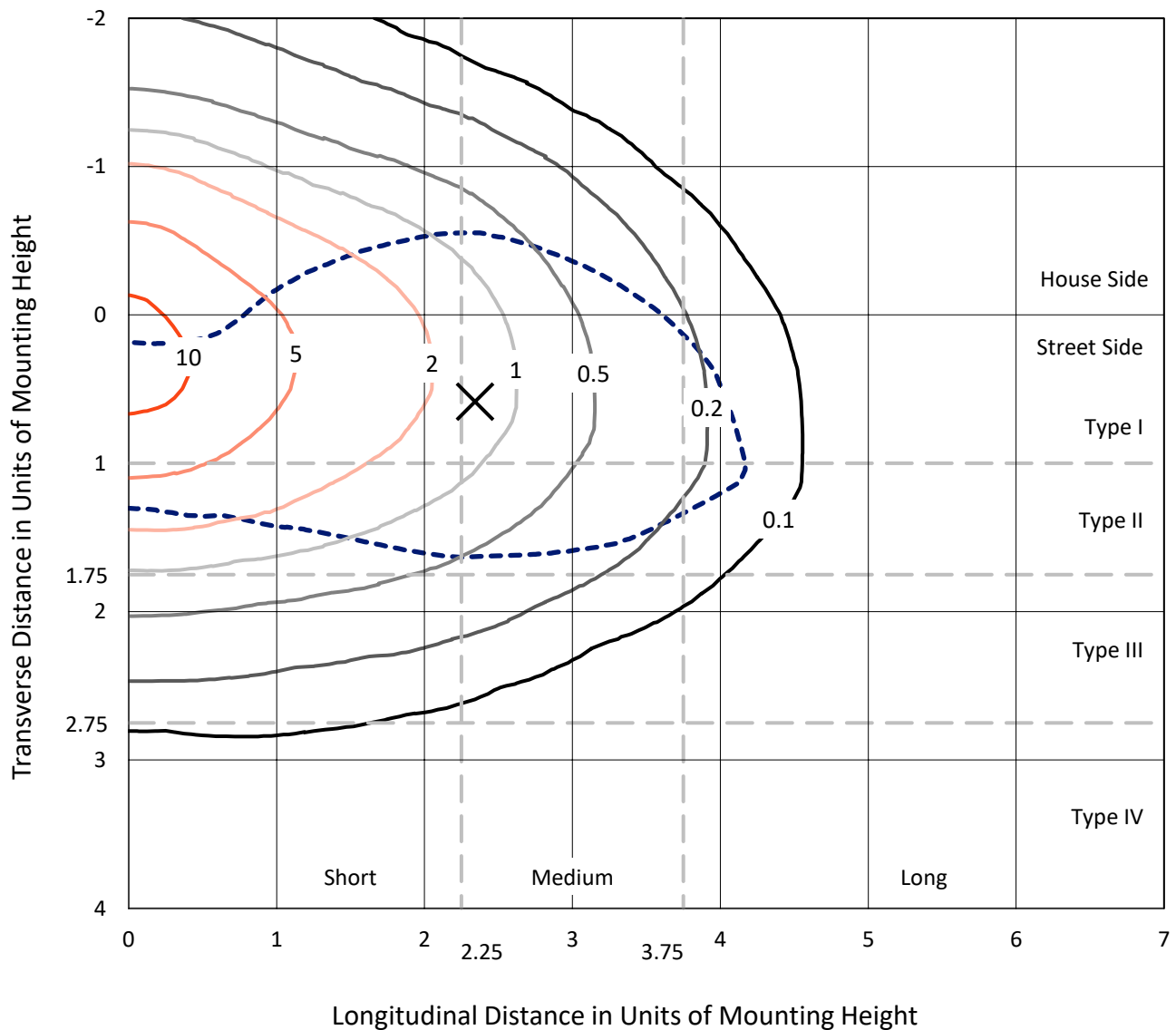


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Iso-Footcandle Lines of Horizontal Illumination

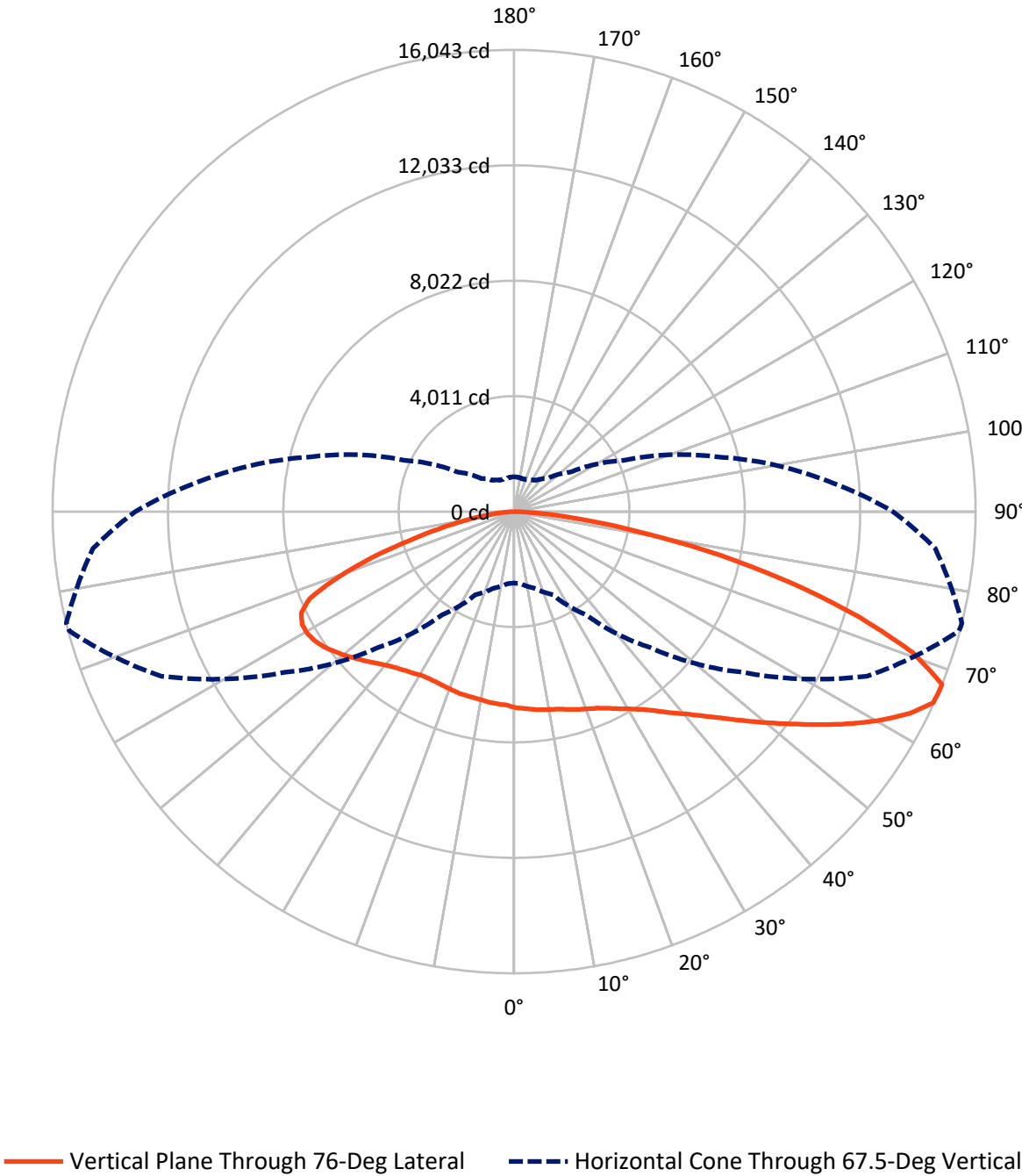
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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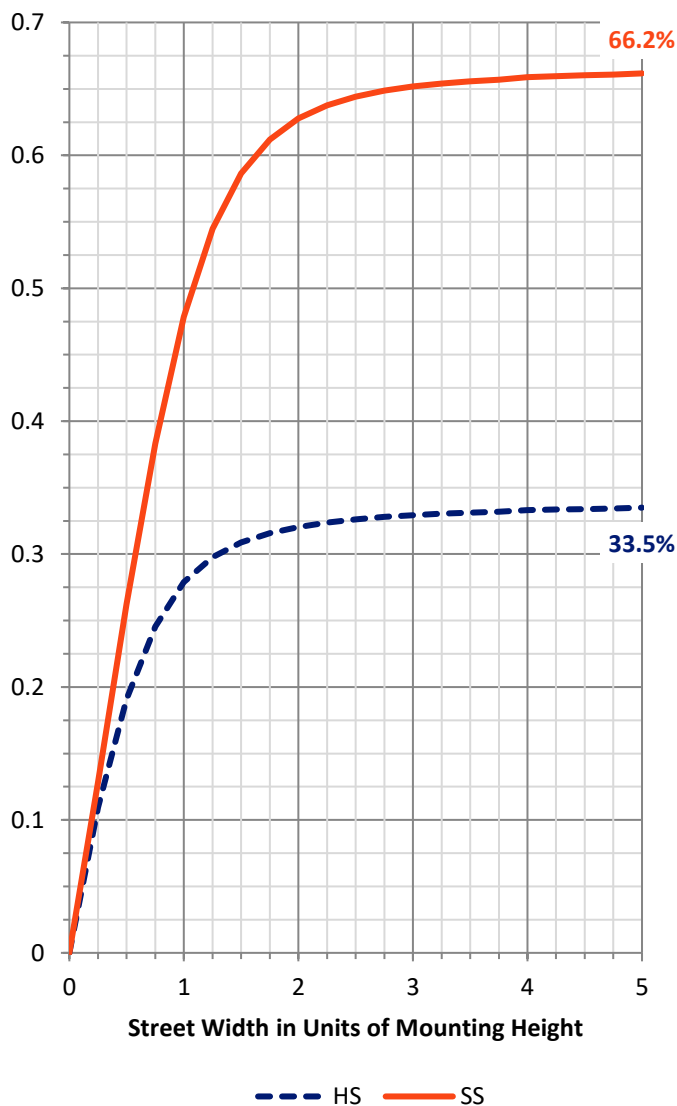
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11406.0	0.0	11406.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	22349.0	0.0	22349.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	33755.0	0.0	33755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.5	1.9
10°-20°	2010.1	6.0
20°-30°	3415.1	10.1
30°-40°	4859.3	14.4
40°-50°	6137.1	18.2
50°-60°	6644.6	19.7
60°-70°	6180.2	18.3
70°-80°	3319.3	9.8
80°-90°	531.9	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°	33755.0	100.0
0°-180°	33755.0	100.0

Coefficient of Utilization



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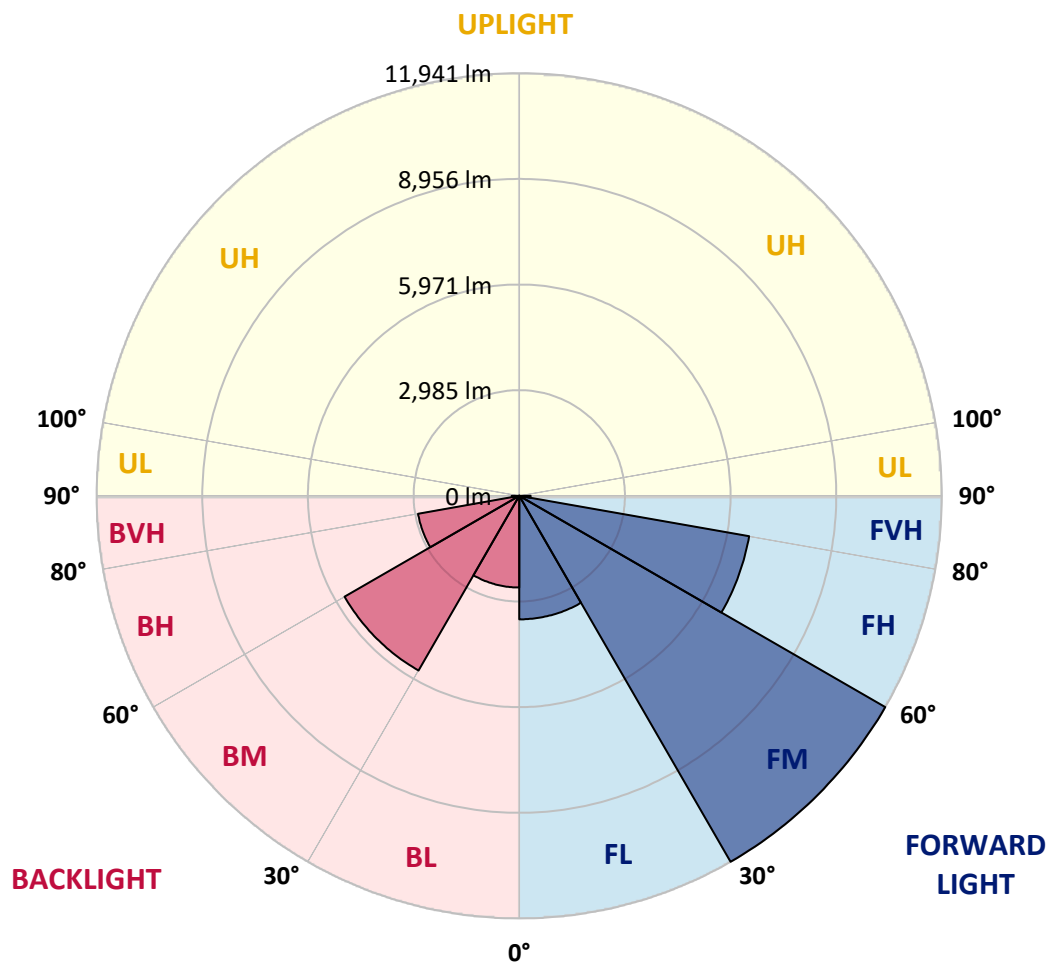
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3490.6	10.3			
FM	(30°-60°)	11941.2	35.4			
FH	(60°-80°)	6595.4	19.5			G3/7500
FVH	(80°-90°)	321.7	1.0			G3/500
BL	(0°-30°)	2592.0	7.7	B4/5000		
BM	(30°-60°)	5699.7	16.9	B4/8500		
BH	(60°-80°)	2904.1	8.6	B4/5000		G4/5000
BVH	(80°-90°)	210.1	0.6			G2/225
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°	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4
2.5°	7025.2	7012.7	6962.6	6968.8	6968.8	6962.6	6887.4	6856.0	6856.0	6849.8	6780.8
5°	7275.9	7257.1	7200.7	7188.2	7163.1	7131.8	7012.7	6943.8	6912.4	6906.2	6812.2
7.5°	7570.5	7545.4	7476.5	7438.9	7376.2	7294.7	7144.3	7037.8	6962.6	6956.3	6824.7
10°	7865.0	7839.9	7758.5	7689.5	7601.8	7470.2	7275.9	7119.2	7000.2	6987.6	6831.0
12.5°	8216.0	8190.9	8090.6	8002.9	7871.3	7695.8	7438.9	7225.8	7062.8	7044.0	6849.8
15°	8585.7	8548.1	8447.8	8347.6	8184.6	7959.0	7651.9	7369.9	7163.1	7131.8	6906.2
17.5°	8892.8	8842.7	8761.2	8660.9	8479.2	8216.0	7865.0	7514.1	7257.1	7232.1	6962.6
20°	9156.0	9118.4	9030.7	8936.7	8742.4	8454.1	8065.6	7658.2	7344.9	7313.5	7006.4
22.5°	9406.7	9356.5	9306.4	9237.5	9024.4	8704.8	8297.4	7833.7	7457.7	7420.1	7062.8
25°	9695.0	9638.6	9619.8	9582.2	9331.5	9005.6	8579.4	8053.0	7614.3	7570.5	7163.1
27.5°	10052.2	9989.5	9951.9	9951.9	9651.1	9312.7	8880.3	8310.0	7796.1	7758.5	7288.5
30°	10428.2	10353.0	10296.6	10296.6	9958.2	9619.8	9174.8	8566.9	8002.9	7959.0	7451.4
32.5°	10760.3	10685.1	10622.5	10616.2	10265.3	9926.8	9481.9	8848.9	8253.6	8197.2	7651.9
35°	11017.3	10948.4	10891.9	10904.5	10572.3	10240.2	9826.6	9224.9	8566.9	8504.2	7915.2
37.5°	11174.0	11148.9	11117.6	11161.4	10854.3	10541.0	10183.8	9588.4	8924.1	8867.7	8241.0
40°	11255.4	11236.6	11362.0	11418.4	11092.5	10810.5	10541.0	9964.4	9312.7	9250.0	8617.0
42.5°	11374.5	11531.2	11581.3	11568.8	11268.0	11017.3	10866.9	10371.8	9770.2	9713.8	9068.3
45°	10948.4	10910.8	11186.5	11336.9	11280.5	11148.9	11174.0	10860.6	10302.9	10246.5	9588.4
47.5°	10378.1	10327.9	10484.6	10854.3	11073.7	11199.0	11449.7	11368.2	10917.0	10866.9	10196.3
50°	9174.8	9243.7	9826.6	10321.7	10754.1	11186.5	11681.6	11913.5	11593.8	11543.7	10848.1
52.5°	7839.9	7908.9	8516.8	9657.4	10365.5	11092.5	11850.8	12458.7	12327.1	12270.7	11543.7
55°	6868.6	7019.0	7708.3	8535.6	9814.0	10797.9	11951.1	13016.4	13116.7	13066.6	12302.0
57.5°	5903.5	6016.3	6536.4	7269.7	9062.0	10284.1	11944.8	13536.6	13944.0	13893.8	13072.8
60°	4769.1	4913.3	5326.9	6116.5	8059.3	9669.9	11769.3	13944.0	14739.9	14702.3	13818.6
62.5°	3992.0	4035.9	4330.5	5013.6	6768.3	8892.8	11374.5	14163.3	15460.6	15435.5	14489.2
65°	3214.9	3221.2	3490.7	4061.0	5521.2	7927.7	10703.9	14081.8	16005.8	16018.3	14971.7
67.5°	2481.7	2513.0	2757.5	3189.9	4386.9	6674.3	9745.1	13530.3	16012.0	16043.4	14696.0
70°	1717.1	1742.2	2112.0	2531.8	3390.4	5320.6	8447.8	12070.1	14696.0	14721.1	13173.1
72.5°	1209.5	1222.1	1616.9	2024.2	2650.9	4010.8	6373.5	9983.2	12527.6	12546.4	11080.0
75°	902.4	915.0	1140.6	1535.4	2030.5	2776.3	4355.5	7645.7	10008.3	10008.3	8748.7
77.5°	639.2	645.5	739.5	1059.1	1353.7	1873.8	2619.6	5007.3	7344.9	7357.4	6373.5
80°	432.4	438.7	482.6	714.4	846.0	1015.2	1422.6	2625.8	4631.3	4650.1	4048.4
82.5°	225.6	238.1	269.5	363.5	426.2	564.0	733.2	1334.9	2563.2	2613.3	2431.6
85°	87.7	87.7	100.3	119.1	156.7	219.3	338.4	507.6	1159.4	1197.0	1071.6
87.5°	31.3	31.3	37.6	37.6	43.9	50.1	56.4	75.2	131.6	131.6	125.3
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°	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4	6818.4
2.5°	6755.8	6755.8	6724.4	6737.0	6730.7	6718.2	6705.6	6724.4	6705.6	6661.8	6655.5
5°	6768.3	6755.8	6705.6	6699.4	6680.6	6655.5	6624.2	6636.7	6605.4	6567.8	6561.5
7.5°	6774.6	6749.5	6680.6	6655.5	6617.9	6567.8	6517.6	6517.6	6473.8	6436.2	6429.9
10°	6762.0	6730.7	6636.7	6586.6	6517.6	6442.4	6373.5	6354.7	6304.5	6260.7	6260.7
12.5°	6768.3	6724.4	6605.4	6523.9	6429.9	6335.9	6248.1	6223.1	6179.2	6135.3	6129.1
15°	6805.9	6743.2	6592.8	6486.3	6348.4	6241.9	6147.9	6129.1	6091.5	6060.1	6060.1
17.5°	6843.5	6762.0	6574.0	6423.6	6254.4	6135.3	6047.6	6047.6	6022.5	6003.7	6003.7
20°	6862.3	6768.3	6536.4	6335.9	6141.6	6016.3	5934.8	5947.3	5941.1	5934.8	5934.8
22.5°	6906.2	6780.8	6505.1	6254.4	6022.5	5890.9	5815.7	5834.5	5828.3	5828.3	5834.5
25°	6975.1	6812.2	6480.0	6179.2	5909.7	5765.6	5684.1	5696.7	5696.7	5696.7	5696.7
27.5°	7069.1	6874.8	6473.8	6110.3	5796.9	5634.0	5533.7	5533.7	5508.6	5514.9	5521.2
30°	7213.3	6993.9	6486.3	6047.6	5677.9	5471.0	5352.0	5333.2	5326.9	5339.4	5345.7
32.5°	7388.7	7156.9	6561.5	6003.7	5552.5	5289.3	5138.9	5132.6	5113.8	5113.8	5113.8
35°	7608.1	7313.5	6630.4	5997.5	5427.2	5095.0	4932.1	4913.3	4869.4	4850.6	4850.6
37.5°	7890.1	7557.9	6711.9	5953.6	5320.6	4907.0	4712.7	4650.1	4599.9	4593.7	4593.7
40°	8234.8	7833.7	6831.0	5903.5	5207.8	4712.7	4455.8	4349.3	4355.5	4380.6	4380.6
42.5°	8642.1	8172.1	6981.4	5878.4	5044.9	4512.2	4155.0	4029.6	4073.5	4098.6	4104.8
45°	9118.4	8573.2	7150.6	5847.1	4894.5	4286.6	3835.4	3678.7	3697.5	3703.8	3710.0
47.5°	9669.9	9018.1	7326.1	5822.0	4725.3	4004.6	3484.4	3277.6	3271.3	3233.7	3246.3
50°	10246.5	9488.2	7507.8	5778.1	4518.5	3672.4	3114.7	2870.3	2820.1	2763.7	2770.0
52.5°	10860.6	9970.7	7677.0	5709.2	4261.5	3334.0	2763.7	2500.5	2400.2	2337.6	2350.1
55°	11537.4	10465.8	7839.9	5602.6	3992.0	2995.6	2450.4	2180.9	2055.6	2005.4	2011.7
57.5°	12157.9	10942.1	7959.0	5471.0	3697.5	2688.5	2174.6	1911.4	1829.9	1823.7	1829.9
60°	12759.5	11343.2	8009.2	5289.3	3396.7	2406.5	1917.7	1717.1	1660.7	1692.1	1698.3
62.5°	13267.1	11600.1	7984.1	5044.9	3089.6	2137.0	1710.9	1566.7	1529.1	1591.8	1598.1
65°	13561.7	11681.6	7808.6	4693.9	2757.5	1873.8	1516.6	1359.9	1341.1	1378.7	1397.5
67.5°	13173.1	11174.0	7332.3	4211.4	2387.7	1629.4	1328.6	1203.3	1171.9	1203.3	1203.3
70°	11675.3	9682.4	6204.3	3446.8	1980.4	1391.3	1153.1	1065.4	1040.3	1065.4	1059.1
72.5°	9726.3	8053.0	4888.2	2688.5	1560.5	1171.9	1002.7	921.2	896.2	871.1	858.6
75°	7545.4	6116.5	3547.1	1974.1	1178.2	940.0	839.8	764.6	701.9	727.0	714.4
77.5°	5527.4	4292.9	2513.0	1366.2	846.0	727.0	658.0	601.6	557.8	607.9	601.6
80°	3559.6	2776.3	1679.5	915.0	582.8	507.6	482.6	451.2	495.1	645.5	658.0
82.5°	2174.6	1761.0	1002.7	595.4	382.3	338.4	313.3	313.3	507.6	557.8	564.0
85°	971.4	933.8	545.2	307.1	213.1	194.3	175.5	225.6	206.8	150.4	156.7
87.5°	156.7	162.9	119.1	106.5	81.5	81.5	62.7	43.9	31.3	18.8	18.8
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)