

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: P842226

Luminaire Tested: **ARCH4-290-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-290-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35935 lumens
Efficiency: N/A
Efficacy: 124.0 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): 289.7
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



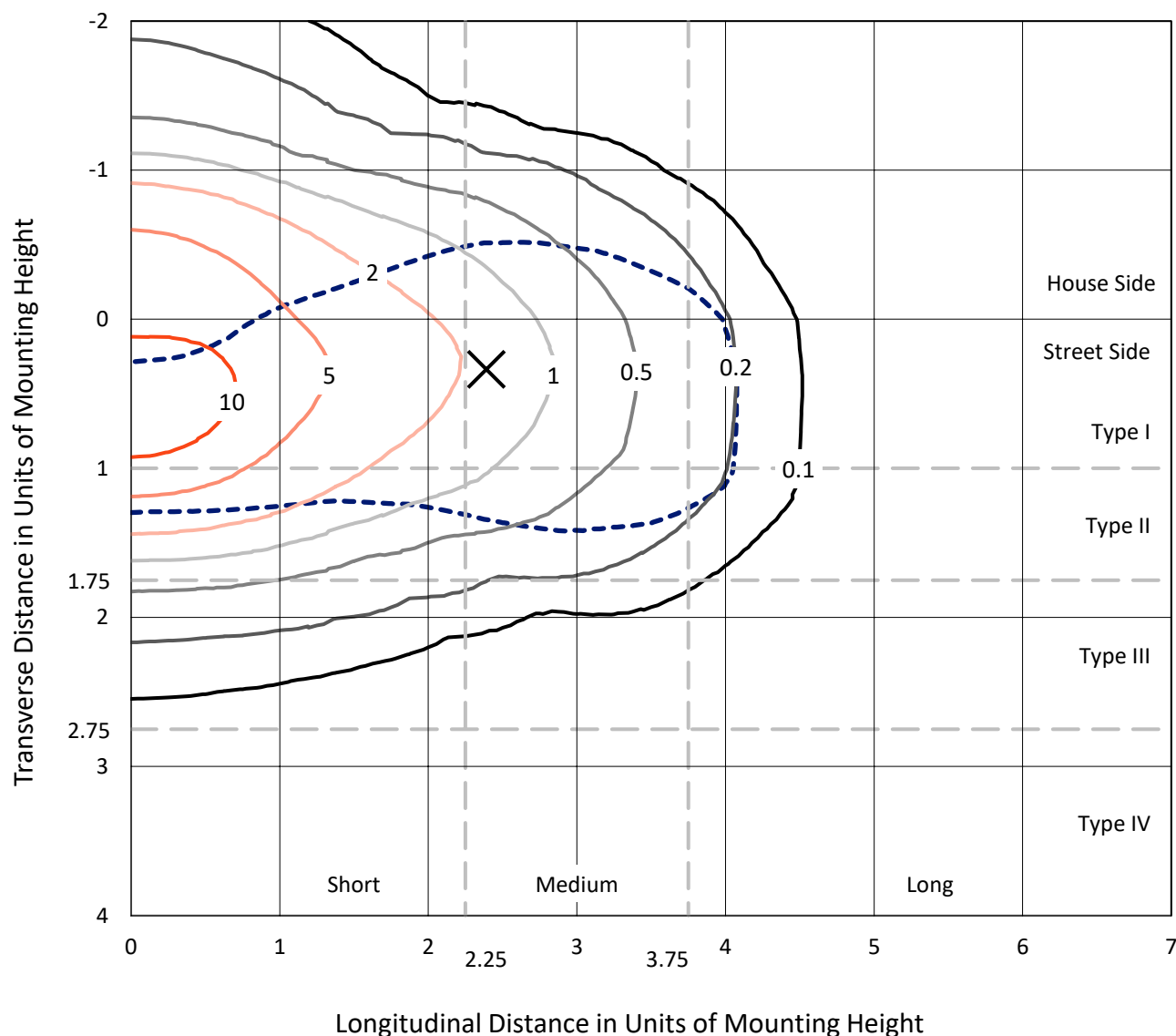
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

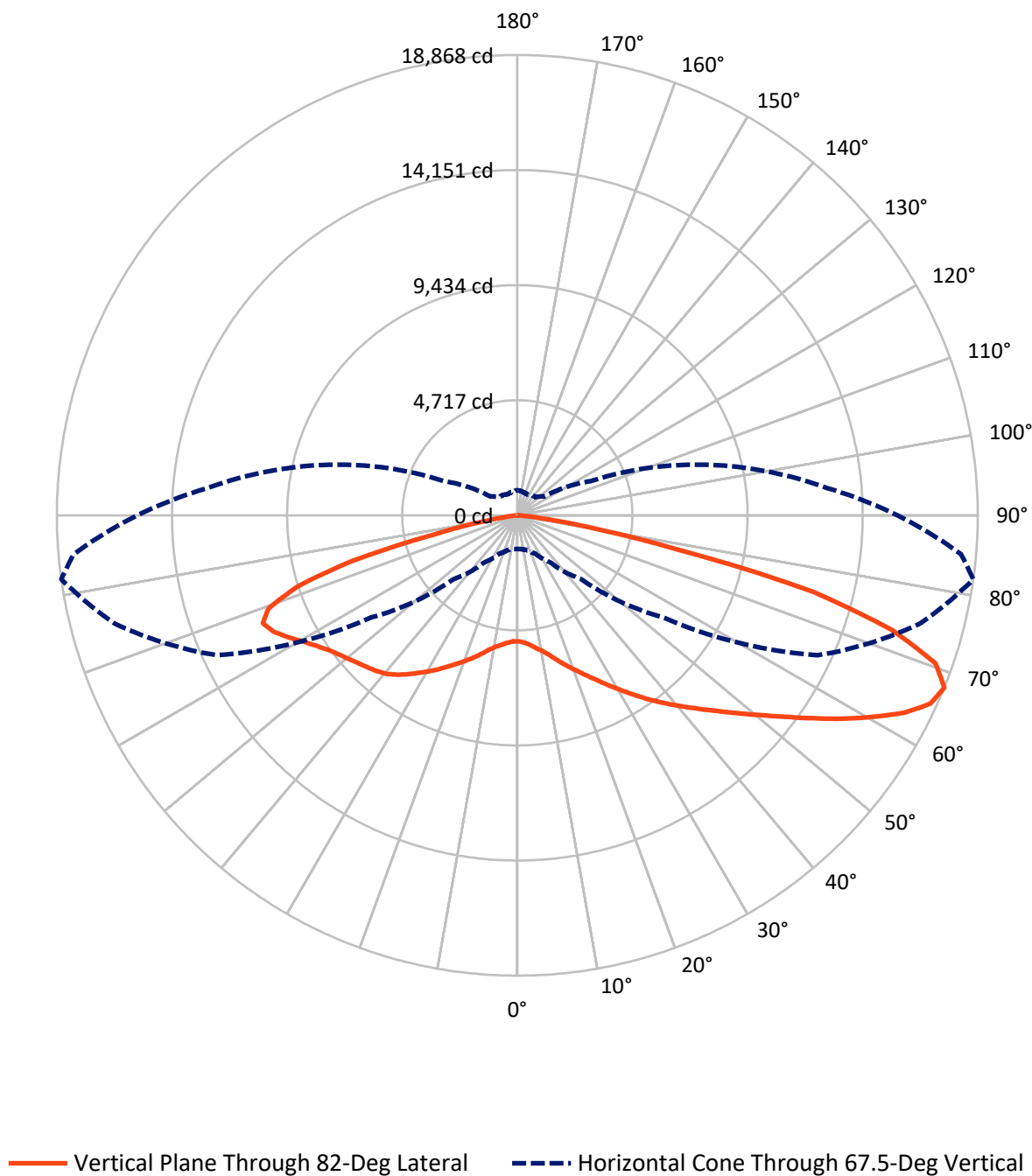
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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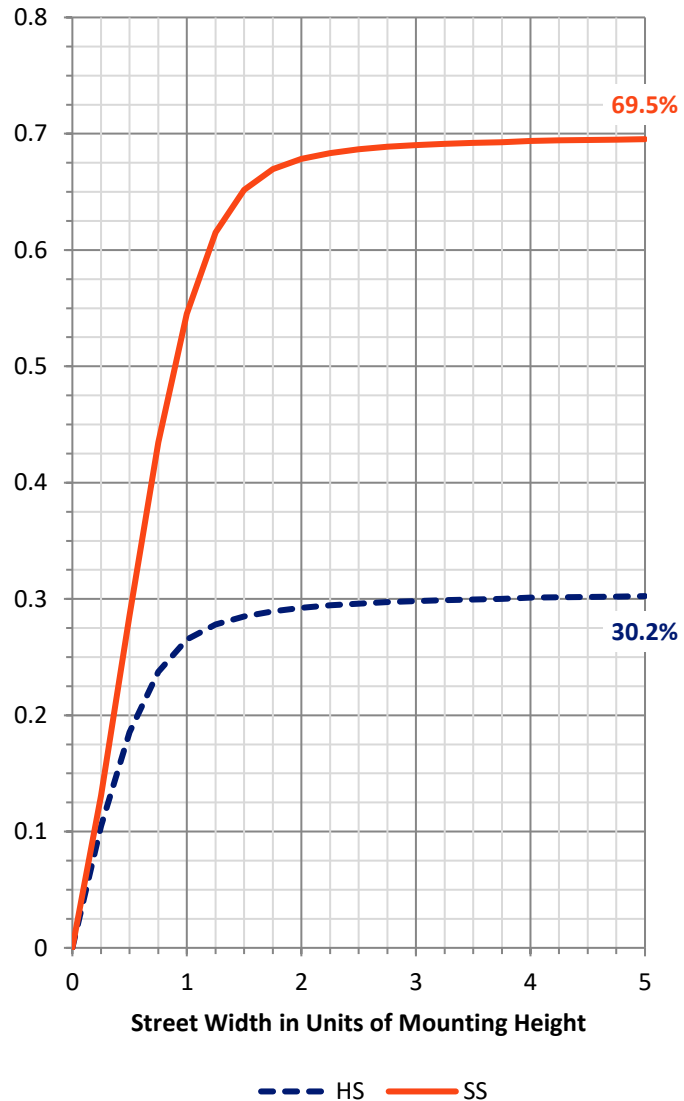
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10943.7	0.0	10943.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	24991.3	0.0	24991.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	35935.0	0.0	35935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.5
10°-20°	1922.9	5.4
20°-30°	3864.6	10.8
30°-40°	6070.8	16.9
40°-50°	7395.5	20.6
50°-60°	6987.8	19.4
60°-70°	5770.3	16.1
70°-80°	3142.2	8.7
80°-90°	247.1	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°	35935.0	100.0
0°-180°	35935.0	100.0

Coefficient of Utilization



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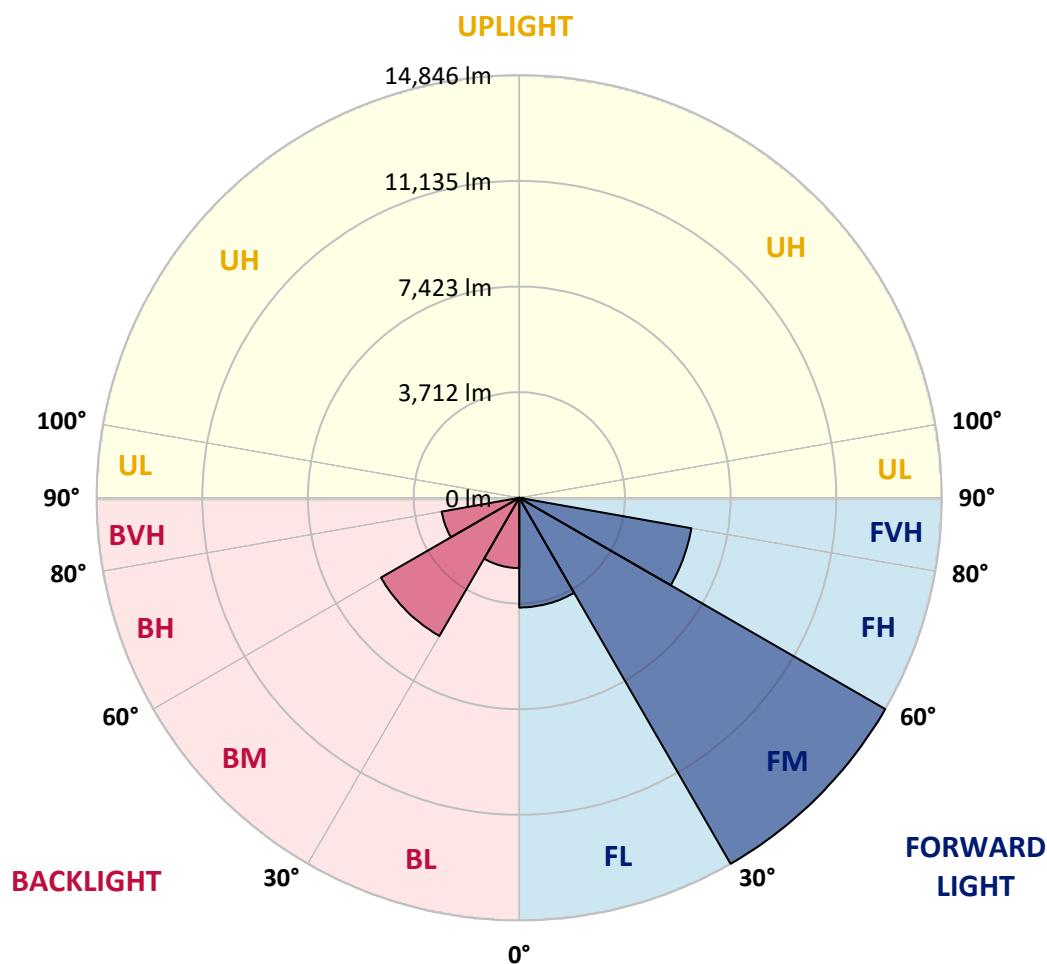
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3853.6	10.7			
FM	(30°-60°)	14846.3	41.3			
FH	(60°-80°)	6142.6	17.1			G3/7500
FVH	(80°-90°)	148.9	0.4			G2/225
BL	(0°-30°)	2467.9	6.9	B3/2500		
BM	(30°-60°)	5607.8	15.6	B4/8500		
BH	(60°-80°)	2769.9	7.7	B4/5000		G4/5000
BVH	(80°-90°)	98.1	0.3			G1/100
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°	82°	85°
0°	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6
2.5°	5400.4	5400.4	5442.2	5442.2	5405.7	5348.3	5332.6	5270.0	5212.6	5212.6	5217.8
5°	5917.0	5911.8	5943.1	5901.3	5812.6	5697.9	5619.6	5483.9	5369.1	5332.6	5327.4
7.5°	6548.4	6543.1	6558.8	6491.0	6324.0	6136.2	5979.6	5760.5	5572.6	5494.4	5473.5
10°	7252.8	7247.5	7231.9	7117.1	6892.7	6600.5	6365.7	6063.1	5781.3	5656.1	5630.0
12.5°	8061.5	8051.1	8014.6	7847.6	7539.7	7164.1	6824.9	6433.6	6057.9	5885.7	5828.3
15°	8964.2	8948.6	8880.7	8677.2	8265.0	7790.2	7351.9	6851.0	6391.8	6167.5	6089.2
17.5°	9913.9	9913.9	9809.5	9506.9	9047.7	8458.1	7915.4	7278.9	6741.4	6464.9	6371.0
20°	10879.1	10873.9	10743.5	10378.2	9835.6	9157.3	8468.5	7769.3	7101.4	6767.5	6652.7
22.5°	11896.6	11886.2	11724.4	11307.0	10660.0	9893.0	9089.4	8254.6	7498.0	7096.2	6950.1
25°	13065.4	13049.8	12851.5	12340.1	11573.1	10707.0	9788.6	8823.3	7952.0	7461.5	7289.3
27.5°	14307.3	14286.4	14051.6	13456.7	12616.7	11573.1	10560.9	9480.8	8452.9	7868.5	7675.4
30°	15413.4	15397.8	15142.1	14531.6	13566.3	12434.1	11296.6	10138.2	8979.9	8301.5	8061.5
32.5°	16248.3	16248.3	16018.7	15418.6	14416.8	13258.5	12037.5	10759.1	9527.7	8765.9	8484.2
35°	16754.4	16770.1	16571.8	16091.7	15147.3	14035.9	12804.5	11489.6	10112.1	9261.6	8959.0
37.5°	16827.5	16879.6	16764.8	16441.3	15653.4	14682.9	13555.9	12194.0	10717.4	9762.5	9423.4
40°	16488.3	16524.8	16530.0	16404.8	15862.2	15147.3	14218.5	12940.2	11359.2	10289.5	9898.2
42.5°	15810.0	15836.1	15883.0	15919.6	15710.8	15350.8	14724.7	13634.2	12042.7	10827.0	10367.8
45°	14933.4	14928.2	15006.4	15163.0	15152.5	15236.0	15006.4	14265.5	12752.3	11437.5	10889.6
47.5°	13623.7	13597.6	13874.2	14229.0	14406.4	14797.7	15011.7	14761.2	13524.6	12110.6	11484.4
50°	11573.1	11547.0	12152.3	12987.1	13508.9	14103.8	14724.7	15058.6	14333.3	12867.1	12131.4
52.5°	9079.0	9052.9	9819.9	11280.9	12418.4	13284.6	14145.5	15126.4	15100.4	13712.4	12861.9
55°	6751.9	6731.0	7477.1	9058.1	10900.0	12334.9	13435.9	14949.0	15820.4	14682.9	13748.9
57.5°	4758.6	4748.2	5395.2	6704.9	8948.6	11176.6	12752.3	14604.7	16483.1	15736.9	14750.8
60°	3339.4	3323.7	3793.4	4805.6	6767.5	9428.6	12074.0	14145.5	16978.8	16775.3	15815.2
62.5°	2248.9	2238.4	2572.4	3417.7	4805.6	7258.0	11046.1	13837.6	17260.5	17818.8	16890.1
65°	1706.2	1701.0	1852.3	2316.7	3402.0	5212.6	9412.9	13801.1	17297.1	18601.5	17803.2
67.5°	1377.5	1382.7	1466.2	1732.3	2353.2	3704.6	7299.7	13571.5	17104.0	18867.6	18246.7
70°	1127.0	1127.0	1163.6	1341.0	1737.5	2499.3	5097.8	12528.0	16566.6	18173.7	17719.7
72.5°	860.9	866.2	980.9	1085.3	1309.7	1753.2	3266.4	10367.8	15298.6	16023.9	15679.5
75°	683.5	678.3	746.1	892.2	1017.5	1252.3	2003.6	7435.4	13018.5	12522.8	12303.6
77.5°	490.5	485.3	537.4	662.7	772.2	887.0	1194.9	3751.6	7080.6	6506.6	6344.9
80°	333.9	323.5	370.5	459.2	511.3	521.8	584.4	1440.1	3088.9	2911.5	2875.0
82.5°	172.2	172.2	198.3	260.9	266.1	271.3	260.9	464.4	1022.7	954.9	913.1
85°	67.8	67.8	73.0	88.7	88.7	93.9	93.9	120.0	109.6	104.4	99.1
87.5°	5.2	5.2	10.4	10.4	15.7	15.7	15.7	20.9	26.1	26.1	26.1
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°	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6	5165.6
2.5°	5207.4	5186.5	5118.7	5103.0	5092.6	5076.9	5082.2	5045.6	5030.0	5035.2	5014.3
5°	5301.3	5264.8	5181.3	5144.8	5134.3	5118.7	5134.3	5108.2	5082.2	5092.6	5082.2
7.5°	5431.7	5379.6	5275.2	5238.7	5233.5	5217.8	5238.7	5217.8	5196.9	5207.4	5186.5
10°	5567.4	5499.6	5384.8	5348.3	5348.3	5343.0	5363.9	5332.6	5311.7	5317.0	5306.5
12.5°	5765.7	5677.0	5551.8	5520.4	5504.8	5520.4	5525.7	5483.9	5447.4	5452.6	5437.0
15°	6005.7	5906.6	5770.9	5723.9	5713.5	5708.3	5687.4	5635.2	5588.3	5583.1	5567.4
17.5°	6266.6	6141.4	5979.6	5932.7	5885.7	5870.0	5817.9	5750.0	5677.0	5677.0	5656.1
20°	6517.1	6376.2	6183.1	6115.3	6047.4	5984.8	5896.1	5786.6	5692.6	5677.0	5656.1
22.5°	6788.4	6621.4	6397.0	6297.9	6177.9	6052.7	5901.3	5755.3	5635.2	5609.2	5593.5
25°	7091.0	6882.3	6616.2	6470.1	6277.0	6084.0	5859.6	5671.8	5530.9	5489.1	5478.7
27.5°	7425.0	7174.5	6851.0	6637.1	6355.3	6052.7	5765.7	5541.3	5369.1	5317.0	5301.3
30°	7764.1	7466.7	7064.9	6751.9	6355.3	5953.5	5593.5	5332.6	5134.3	5061.3	5050.8
32.5°	8103.3	7769.3	7258.0	6814.5	6292.7	5786.6	5369.1	5061.3	4836.9	4748.2	4769.1
35°	8510.3	8103.3	7435.4	6840.6	6188.3	5583.1	5113.5	4753.4	4523.8	4445.6	4461.2
37.5°	8932.9	8437.2	7576.3	6819.7	6042.2	5353.5	4826.5	4476.9	4189.9	4054.2	4069.9
40°	9298.1	8739.8	7675.4	6746.6	5854.4	5092.6	4544.7	4085.5	3689.0	3558.6	3542.9
42.5°	9642.5	8964.2	7727.6	6637.1	5640.5	4790.0	4142.9	3553.3	3156.8	2995.0	3000.2
45°	10002.6	9183.4	7706.7	6491.0	5374.4	4435.1	3626.4	3031.6	2682.0	2535.9	2541.1
47.5°	10414.8	9418.2	7685.8	6334.4	5050.8	3976.0	3130.7	2572.4	2269.7	2165.4	2155.0
50°	10853.1	9679.0	7659.8	6141.4	4690.8	3464.6	2640.2	2144.5	1888.8	1821.0	1805.4
52.5°	11348.7	9960.8	7644.1	5911.8	4257.7	2922.0	2201.9	1768.8	1596.7	1549.7	1544.5
55°	11943.6	10289.5	7665.0	5635.2	3736.0	2410.6	1831.5	1523.6	1408.8	1382.7	1377.5
57.5°	12668.9	10712.2	7727.6	5311.7	3188.1	1967.1	1560.1	1372.3	1299.2	1278.4	1278.4
60°	13456.7	11192.2	7842.4	4946.5	2640.2	1622.7	1382.7	1252.3	1221.0	1247.1	1247.1
62.5°	14307.3	11755.7	8045.9	4503.0	2128.9	1372.3	1241.8	1153.1	1132.3	1184.4	1189.7
65°	15095.1	12303.6	8176.3	3970.8	1690.6	1189.7	1132.3	1054.0	1064.4	1116.6	1111.4
67.5°	15580.4	12757.6	7993.7	3302.9	1341.0	1054.0	1017.5	949.6	975.7	1017.5	1022.7
70°	15283.0	12501.9	7091.0	2494.1	1048.8	918.3	892.2	850.5	871.4	923.6	944.4
72.5°	13827.2	11197.4	5515.2	1685.4	845.3	772.2	782.7	761.8	787.9	834.9	881.8
75°	11223.5	8463.3	3699.4	1080.1	667.9	657.4	673.1	657.4	667.9	714.8	740.9
77.5°	5859.6	4127.3	1841.9	673.1	495.7	511.3	537.4	542.7	574.0	584.4	594.8
80°	2734.1	1857.5	767.0	375.7	328.7	360.0	412.2	417.4	427.9	443.5	448.7
82.5°	892.2	558.3	354.8	203.5	187.8	203.5	266.1	318.3	323.5	354.8	354.8
85°	93.9	57.4	78.3	83.5	73.0	88.7	120.0	114.8	52.2	31.3	31.3
87.5°	26.1	20.9	26.1	26.1	20.9	20.9	15.7	5.2	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)