

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: P193988

Luminaire Tested: **GAN-AF-10-LED-U-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38851 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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: 28.75 FT



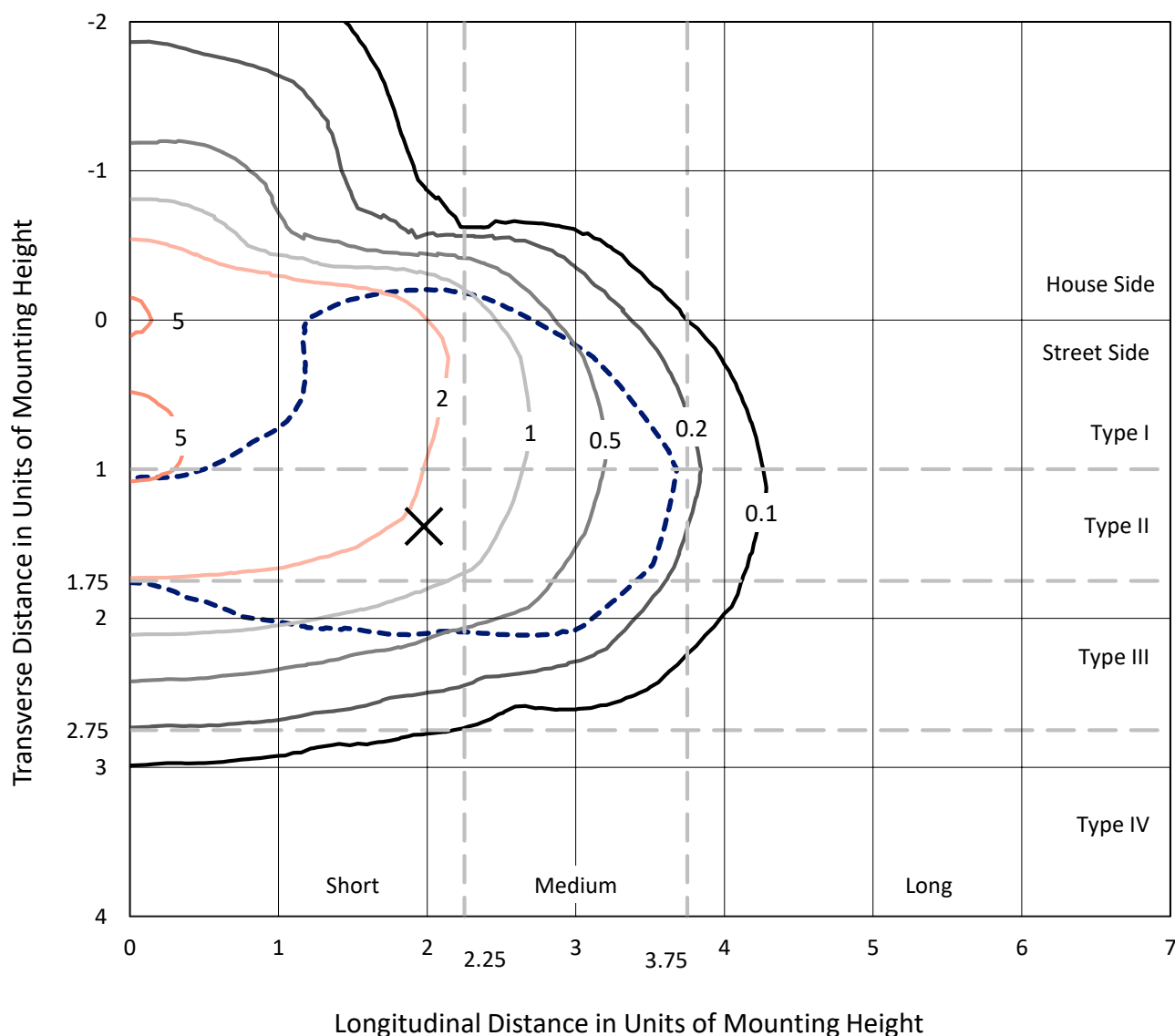
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

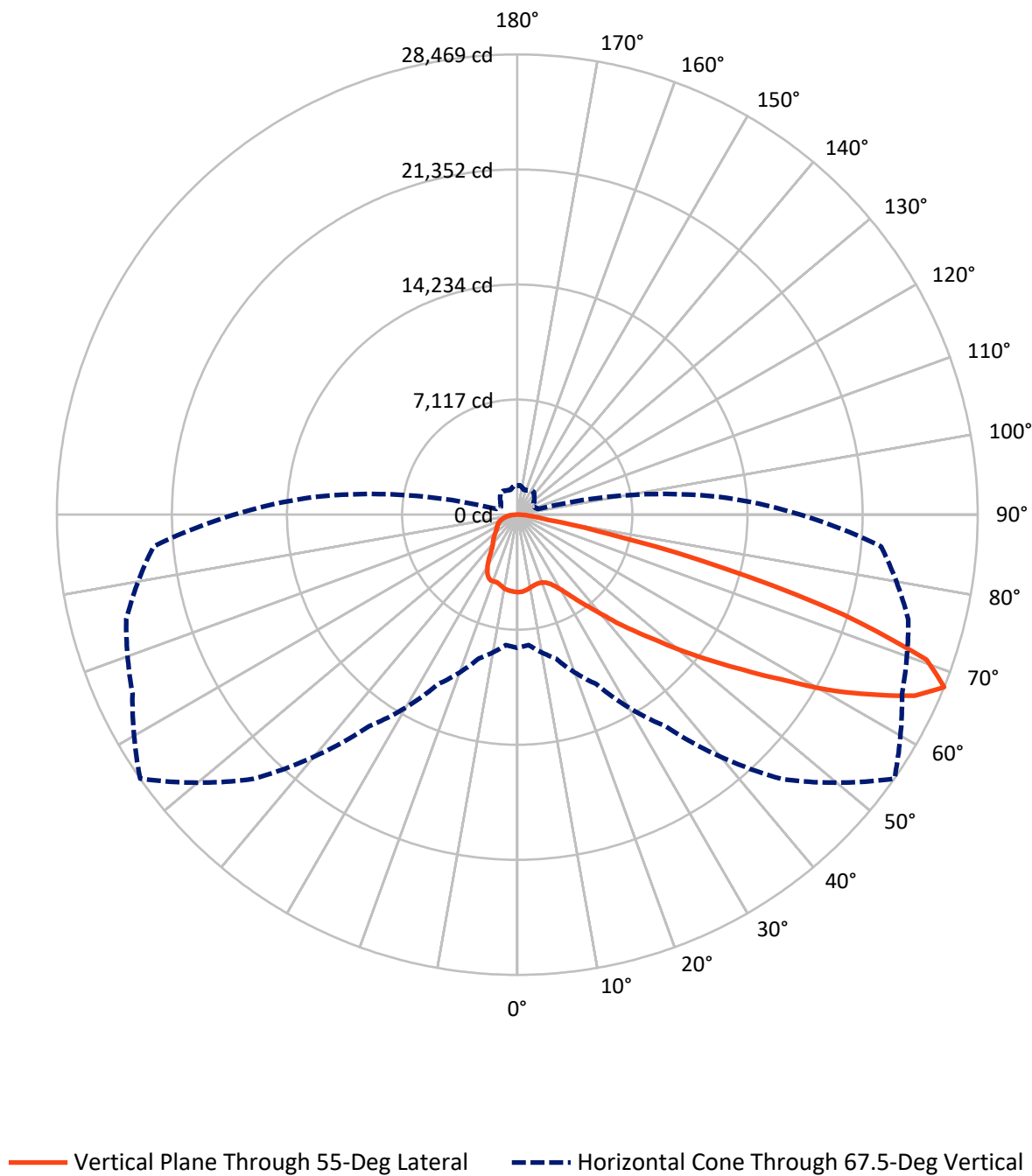


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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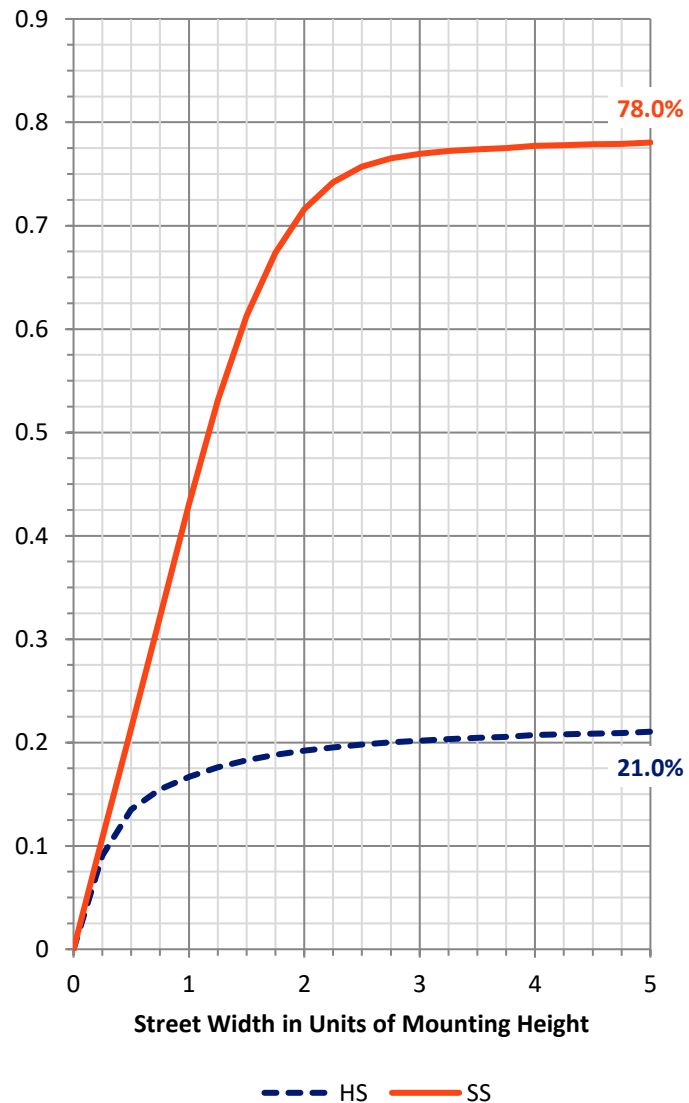
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8392.6	0.0	8392.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30458.4	0.0	30458.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	38851.0	0.0	38851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	1.2
10°-20°	1266.4	3.3
20°-30°	2121.4	5.5
30°-40°	3488.6	9.0
40°-50°	5872.3	15.1
50°-60°	9242.6	23.8
60°-70°	11030.1	28.4
70°-80°	4736.5	12.2
80°-90°	645.8	1.7
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°	38851.0	100.0
0°-180°	38851.0	100.0

Coefficient of Utilization



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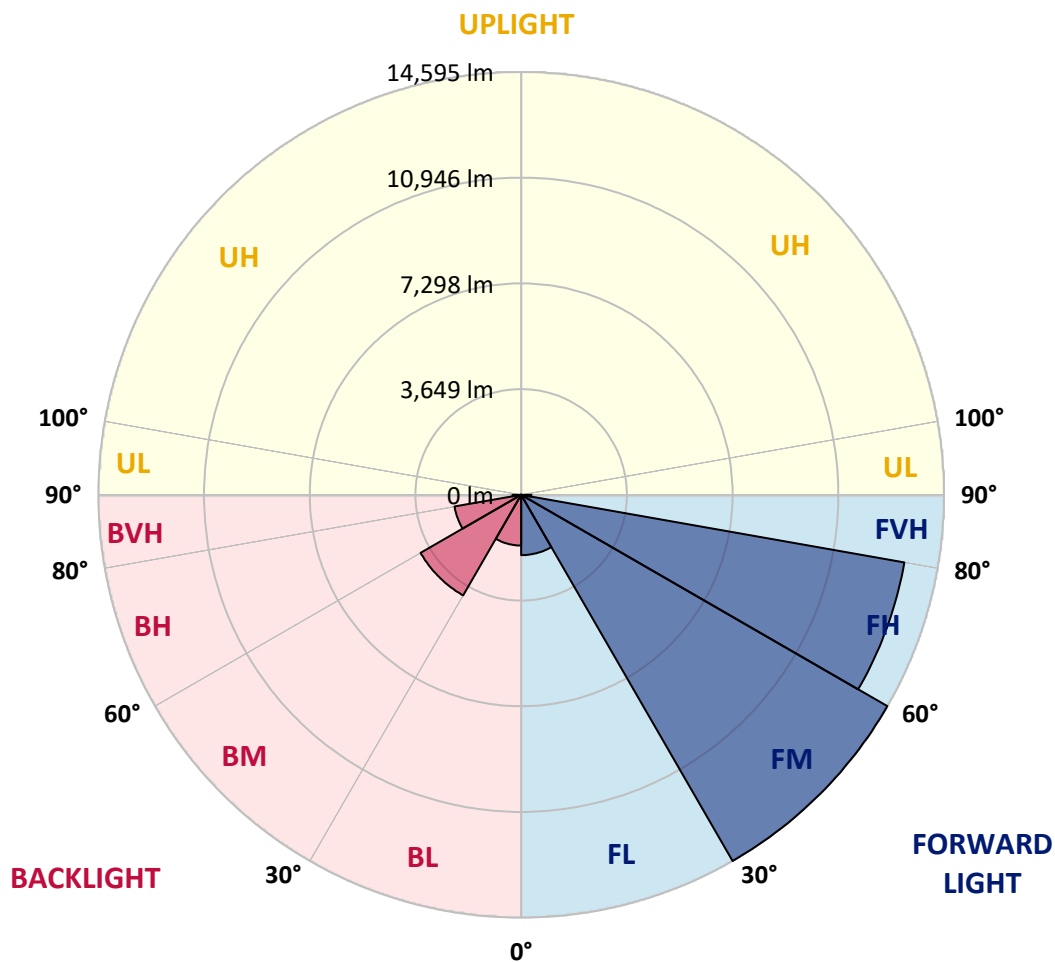
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.5	5.4			
FM	(30°-60°)	14595.3	37.6			
FH	(60°-80°)	13431.0	34.6			G5
FVH	(80°-90°)	349.6	0.9			G3/500
BL	(0°-30°)	1752.5	4.5	B3/2500		
BM	(30°-60°)	4008.2	10.3	B3/5000		
BH	(60°-80°)	2335.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	296.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8
2.5°	4749.5	4751.3	4755.1	4770.1	4783.2	4779.5	4781.4	4773.9	4772.0	4760.7	4772.0
5°	4689.4	4695.1	4696.9	4721.3	4736.3	4740.1	4734.5	4725.1	4713.8	4702.6	4708.2
7.5°	4552.4	4567.4	4569.3	4603.1	4627.5	4659.4	4661.3	4663.1	4657.5	4650.0	4661.3
10°	4466.1	4469.9	4468.0	4492.4	4511.2	4546.8	4567.4	4603.1	4618.1	4621.9	4629.4
12.5°	4460.5	4456.7	4451.1	4451.1	4445.5	4460.5	4498.0	4548.7	4584.3	4595.6	4605.0
15°	4520.5	4518.7	4499.9	4471.7	4436.1	4424.8	4456.7	4513.0	4559.9	4584.3	4593.7
17.5°	4655.6	4644.4	4614.4	4550.6	4473.6	4443.6	4447.3	4494.3	4548.7	4580.6	4590.0
20°	4903.3	4903.3	4839.5	4719.4	4582.5	4511.2	4477.4	4505.5	4558.1	4601.2	4614.4
22.5°	5331.2	5334.9	5228.0	5030.9	4800.1	4648.1	4563.7	4558.1	4620.0	4668.8	4683.8
25°	5937.3	5922.3	5772.2	5490.7	5139.8	4888.3	4742.0	4708.2	4760.7	4815.1	4833.9
27.5°	6642.9	6588.5	6410.2	6070.5	5616.4	5248.6	5023.4	4969.0	5019.7	5081.6	5100.4
30°	7340.9	7284.6	7072.6	6701.0	6196.3	5730.9	5408.1	5319.9	5391.2	5479.4	5490.7
32.5°	8039.0	8039.0	7802.6	7369.1	6819.3	6307.0	5920.4	5815.3	5933.6	6040.5	6064.9
35°	8874.1	8877.8	8648.9	8127.2	7536.1	6993.8	6567.8	6490.9	6669.1	6744.2	6802.4
37.5°	9900.5	9921.2	9626.5	8996.0	8348.6	7778.2	7271.5	7166.4	7344.7	7549.2	7736.9
40°	11009.5	11035.8	10711.2	9934.3	9286.9	8690.2	8142.2	7952.7	8249.2	8639.5	8881.6
42.5°	12067.9	12203.0	11889.6	11090.2	10394.0	9776.7	9221.2	8945.4	9316.9	9906.1	10116.3
45°	13597.3	13694.8	13148.8	12424.4	11769.5	11079.0	10343.4	10052.5	10572.3	11315.4	11358.6
47.5°	14616.2	14543.0	14265.3	13814.9	13400.2	12754.7	11647.6	11328.5	12019.1	12893.6	12651.5
50°	15158.5	15181.0	15143.5	15169.8	15184.8	14779.5	13246.3	12809.1	13632.9	14689.4	14132.1
52.5°	15665.2	15515.1	15638.9	16254.4	16997.5	16847.4	14985.9	14529.9	15363.1	16682.3	15697.1
55°	15653.9	15425.0	15828.4	16914.9	18526.9	18699.5	16939.3	16413.9	17192.7	18819.6	17355.9
57.5°	15100.3	15111.6	15732.7	17155.1	19592.7	20440.9	19206.2	18418.0	19133.0	20985.1	18870.3
60°	14338.5	14441.7	15336.8	17115.7	20446.5	21869.0	21987.2	20577.9	21033.9	22953.6	20123.8
62.5°	13109.4	13218.2	14452.9	16706.6	20317.1	23244.4	24501.7	23028.6	23021.1	24147.0	20491.6
65°	11170.9	11139.0	12435.7	15177.3	19230.6	24261.5	26999.4	25147.2	24518.6	24165.8	19752.2
67.5°	8237.9	8095.3	9208.1	11559.4	15984.2	23122.5	28468.7	26250.6	25029.0	22576.4	17492.9
70°	4274.7	4132.1	5032.8	6749.8	10512.3	18046.5	26841.7	25680.2	23901.2	18924.7	13704.2
72.5°	1827.7	1803.3	2169.3	2961.1	5085.4	10409.1	21047.0	22227.4	20508.5	14100.2	9422.0
75°	1229.1	1221.6	1358.6	1613.8	2287.5	4224.0	13171.3	15777.8	15004.6	8742.7	5299.3
77.5°	964.5	955.1	1035.8	1159.7	1482.4	1666.3	5845.4	8470.6	7840.1	3805.6	2319.4
80°	754.4	746.9	797.5	865.1	1065.9	1050.9	1923.4	3370.2	2608.4	1458.1	1127.8
82.5°	594.9	594.9	636.1	638.0	756.2	716.8	1003.9	1484.3	1302.3	850.1	690.6
85°	544.2	544.2	587.4	476.6	493.5	452.2	623.0	880.1	825.7	349.0	300.2
87.5°	274.0	266.5	493.5	422.2	268.3	240.2	304.0	426.0	457.9	193.3	150.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8	4790.8
2.5°	4768.2	4766.4	4770.1	4772.0	4787.0	4807.6	4817.0	4830.2	4837.7	4833.9
5°	4711.9	4715.7	4730.7	4742.0	4768.2	4802.0	4820.8	4835.8	4848.9	4843.3
7.5°	4665.0	4674.4	4696.9	4706.3	4721.3	4730.7	4728.8	4734.5	4745.7	4732.6
10°	4638.8	4650.0	4666.9	4653.8	4618.1	4567.4	4520.5	4496.1	4503.6	4494.3
12.5°	4612.5	4627.5	4614.4	4552.4	4453.0	4387.3	4351.6	4355.4	4372.3	4376.0
15°	4597.5	4603.1	4546.8	4430.5	4329.1	4319.7	4338.5	4334.8	4336.6	4336.6
17.5°	4597.5	4582.5	4477.4	4361.0	4317.9	4301.0	4242.8	4169.6	4137.7	4126.5
20°	4621.9	4582.5	4454.9	4377.9	4284.1	4139.6	3985.7	3850.6	3790.6	3773.7
22.5°	4695.1	4627.5	4518.7	4385.4	4119.0	3876.9	3632.9	3471.6	3362.7	3344.0
25°	4843.3	4768.2	4644.4	4286.0	3856.2	3511.0	3233.2	3053.1	2944.3	2929.2
27.5°	5102.3	5053.5	4711.9	4066.4	3507.2	3137.5	2880.5	2741.6	2660.9	2655.3
30°	5492.6	5468.2	4678.2	3741.8	3077.5	2775.4	2651.5	2570.8	2510.8	2508.9
32.5°	6115.6	5918.5	4567.4	3345.8	2685.3	2518.3	2467.6	2418.8	2371.9	2371.9
35°	6916.8	6282.6	4357.3	2921.7	2447.0	2375.7	2311.9	2234.9	2173.0	2169.3
37.5°	7858.9	6507.8	3980.1	2580.2	2334.4	2280.0	2186.1	2071.7	1962.8	1944.1
40°	8810.3	6575.3	3449.0	2370.0	2263.1	2184.3	2069.8	1934.7	1829.6	1824.0
42.5°	9682.8	6445.8	2886.1	2225.6	2191.8	2086.7	1966.6	1846.5	1763.9	1762.1
45°	10414.7	6109.9	2413.2	2088.6	2116.7	1998.5	1891.5	1794.0	1730.2	1717.0
47.5°	11103.4	5635.2	2081.1	1944.1	2041.7	1949.7	1859.6	1767.7	1705.8	1696.4
50°	11902.8	5122.9	1848.4	1803.3	1976.0	1932.8	1885.9	1790.2	1687.0	1675.7
52.5°	12871.0	4680.0	1666.3	1679.5	1925.3	1955.3	1953.5	1854.0	1673.9	1658.8
55°	13951.9	4188.4	1529.4	1578.2	1904.7	1996.6	1970.3	1914.0	1685.1	1662.6
57.5°	15015.9	3614.2	1433.7	1501.2	1874.6	1992.9	1889.7	1809.0	1711.4	1679.5
60°	15813.4	2842.9	1360.5	1433.7	1809.0	1930.9	1801.5	1694.5	1705.8	1681.4
62.5°	15866.0	2197.4	1272.3	1375.5	1709.5	1869.0	1743.3	1643.8	1730.2	1707.6
65°	14933.3	1660.7	1187.8	1306.1	1602.5	1829.6	1687.0	1615.7	1780.8	1756.4
67.5°	12572.7	1336.1	1116.5	1234.7	1495.6	1747.0	1636.3	1589.4	1825.9	1782.7
70°	9076.7	1139.0	1047.1	1148.4	1399.9	1653.2	1591.3	1542.5	1703.9	1636.3
72.5°	5588.3	987.0	968.3	1034.0	1326.7	1555.6	1523.7	1454.3	1535.0	1480.6
75°	2790.4	855.7	880.1	921.4	1223.5	1444.9	1411.1	1341.7	1353.0	1341.7
77.5°	1336.1	731.8	776.9	808.8	1090.3	1319.2	1283.5	1212.2	1199.1	1201.0
80°	846.3	611.7	654.9	677.4	973.9	1172.8	1137.2	1065.9	1216.0	1127.8
82.5°	529.2	497.3	508.5	549.8	848.2	1020.8	973.9	910.1	1095.9	867.0
85°	292.7	347.2	362.2	397.8	653.0	853.8	806.9	726.2	651.2	639.9
87.5°	174.5	206.4	212.0	238.3	439.1	617.4	546.1	517.9	429.7	427.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)