

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: P317594

Luminaire Tested: **GAN-SA0A-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38187 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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

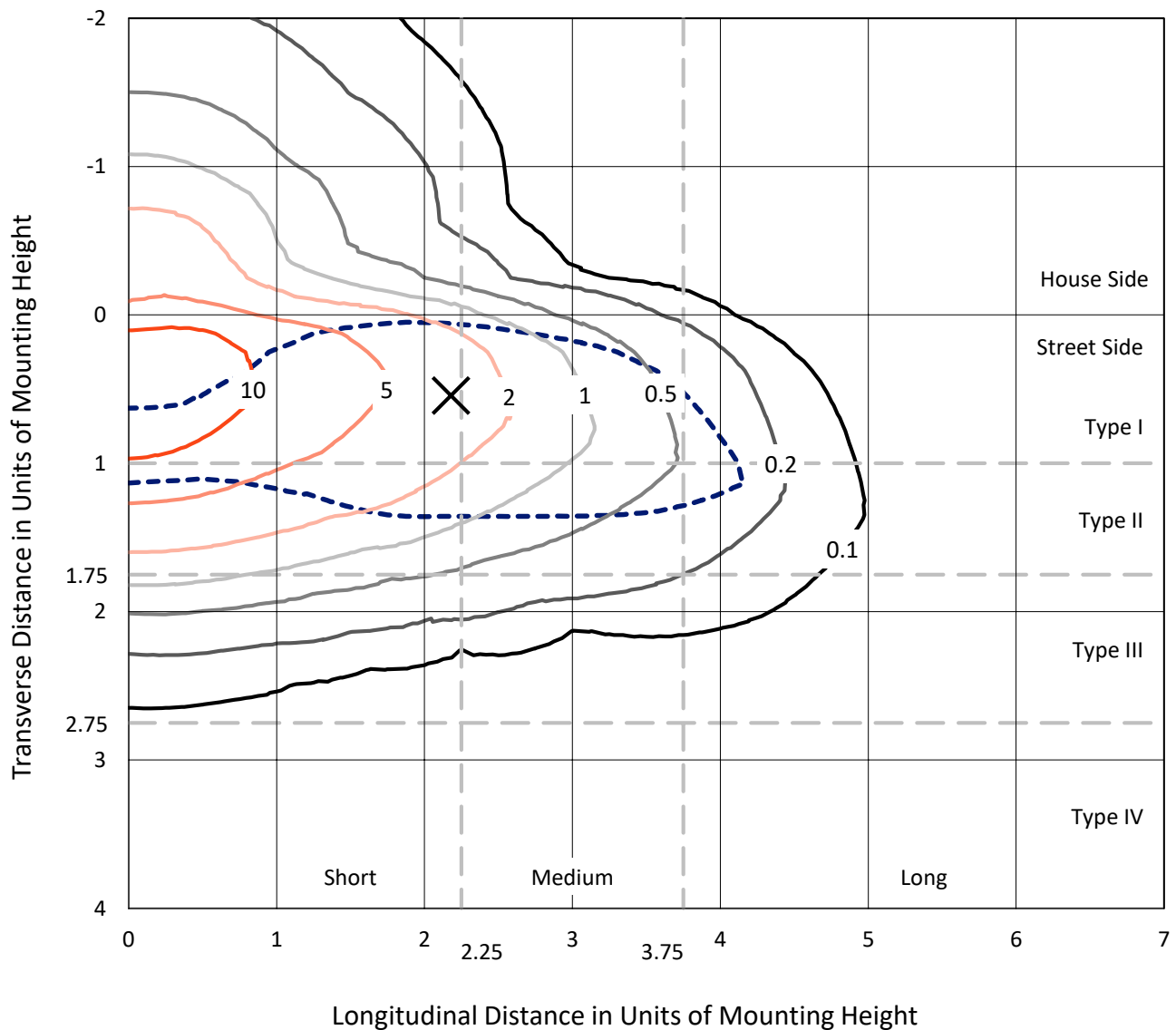


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Iso-Footcandle Lines of Horizontal Illumination

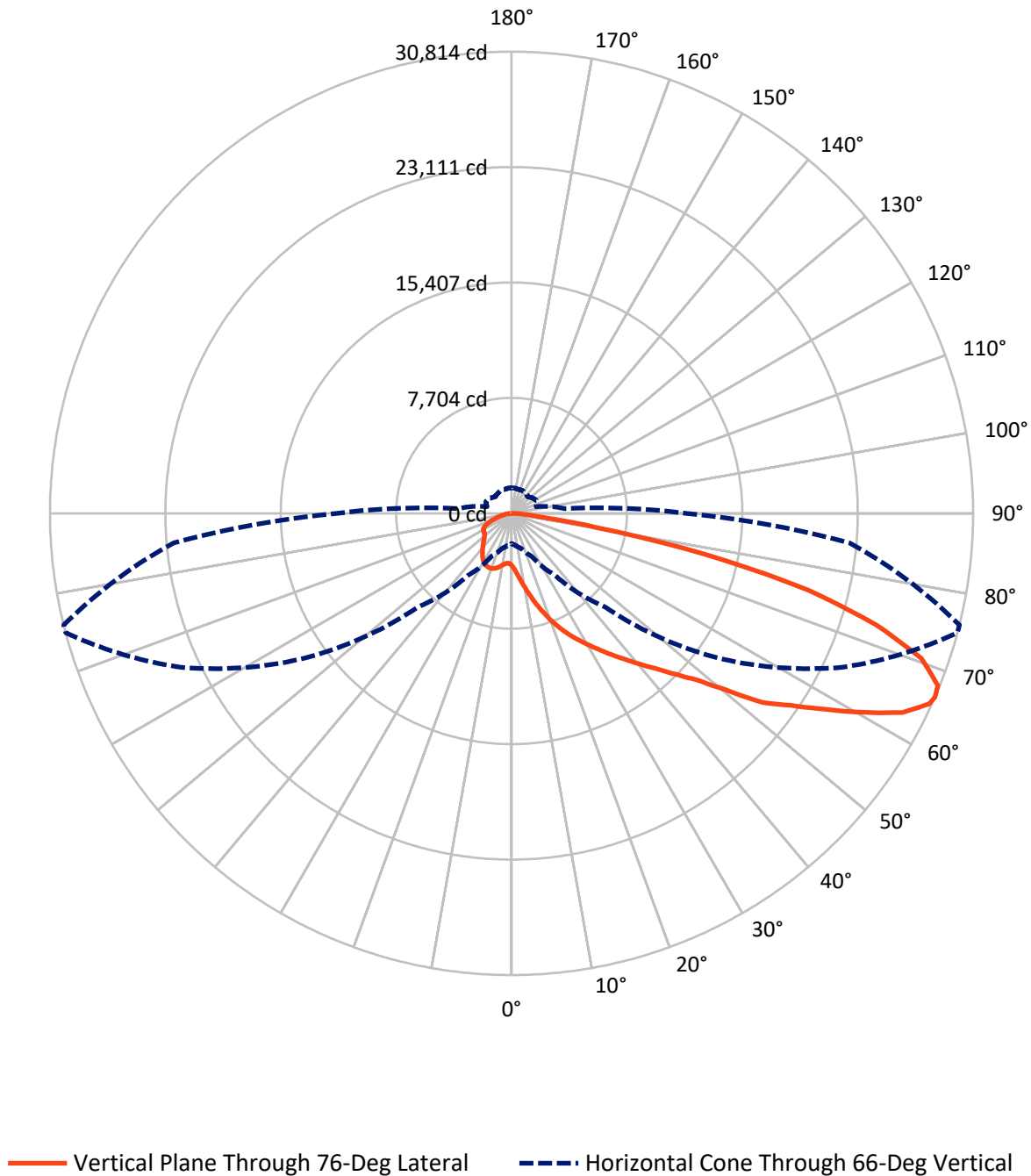
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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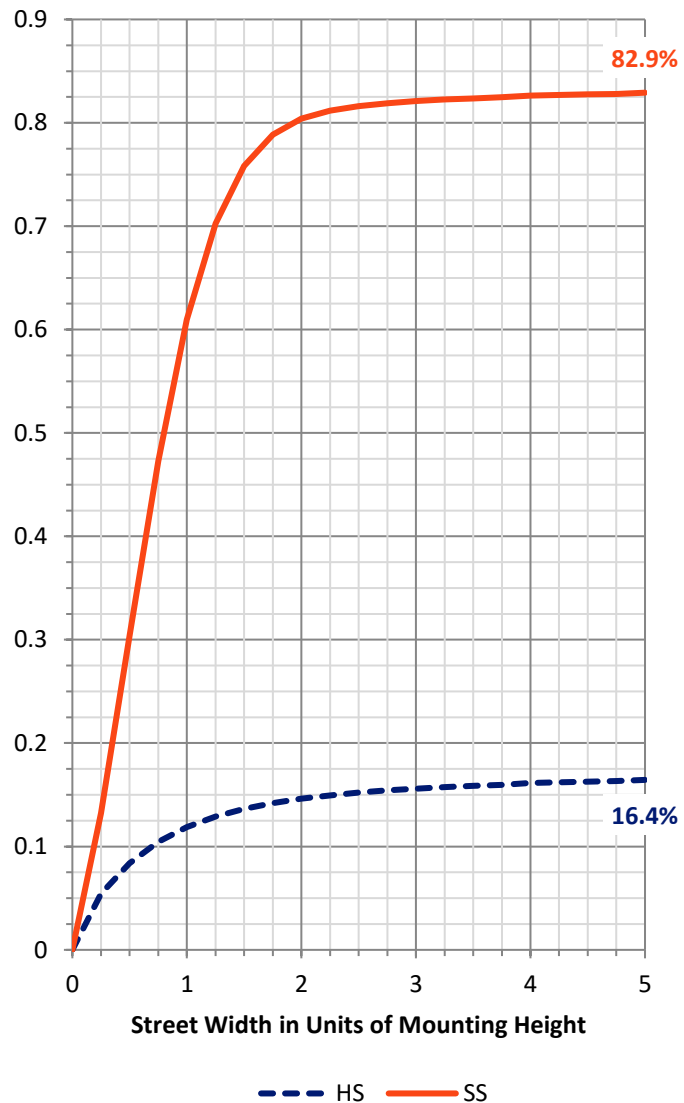
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6425.6	0.0	6425.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31761.4	0.0	31761.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	38187.0	0.0	38187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	1.1
10°-20°	1665.3	4.4
20°-30°	3236.1	8.5
30°-40°	5282.1	13.8
40°-50°	7216.6	18.9
50°-60°	8405.9	22.0
60°-70°	7536.0	19.7
70°-80°	3808.4	10.0
80°-90°	615.0	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°	38187.0	100.0
0°-180°	38187.0	100.0

Coefficient of Utilization



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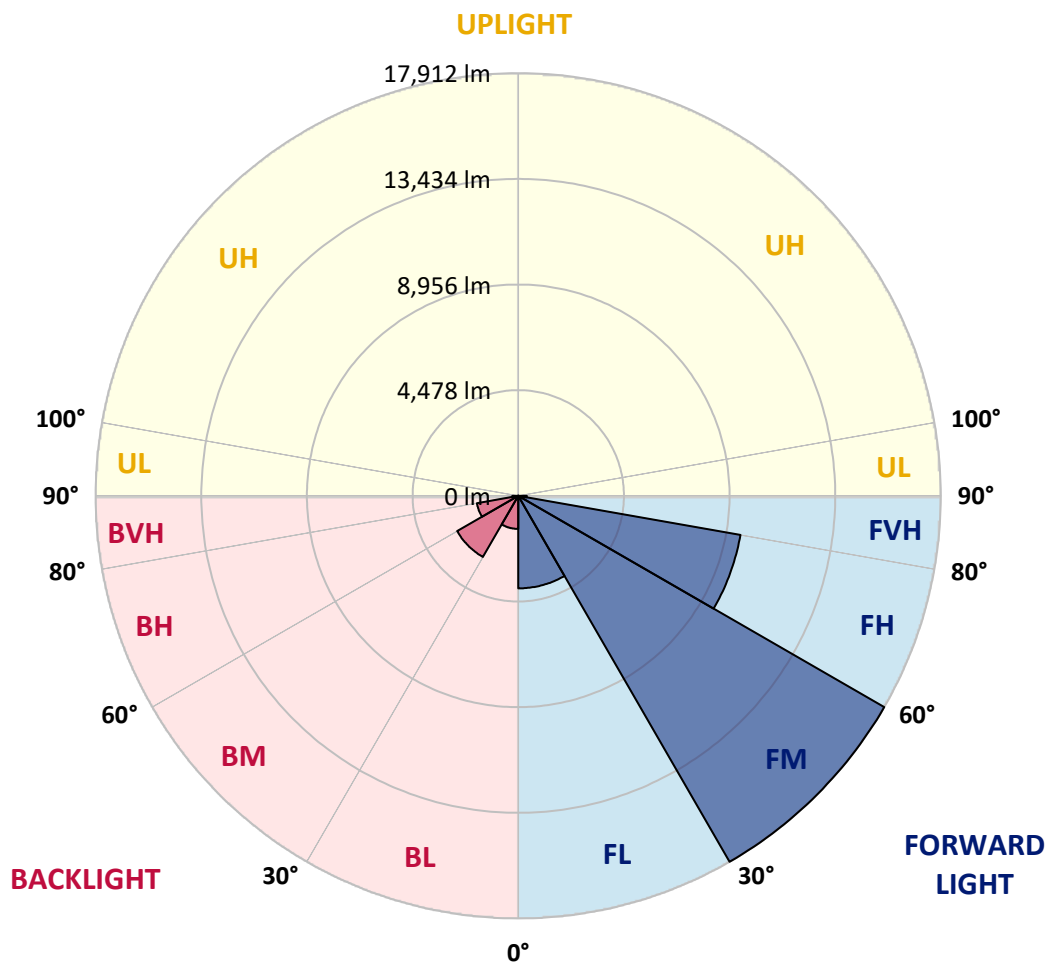
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3921.7	10.3			
FM	(30°-60°)	17912.4	46.9			
FH	(60°-80°)	9564.2	25.0			G4/12000
FVH	(80°-90°)	363.2	1.0			G3/500
BL	(0°-30°)	1401.4	3.7	B3/2500		
BM	(30°-60°)	2992.1	7.8	B3/5000		
BH	(60°-80°)	1780.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	251.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3
2.5°	4629.5	4559.5	4553.0	4450.6	4427.2	4231.5	4087.6	3937.2	3766.1	3732.4	3597.5
5°	5946.6	5940.1	5850.7	5683.4	5552.5	5218.0	4887.5	4537.4	4153.7	4091.5	3788.1
7.5°	7131.5	7121.2	7052.5	6872.3	6683.0	6272.0	5800.1	5263.4	4641.1	4549.1	4046.1
10°	8031.2	8027.4	8004.0	7871.8	7711.0	7316.9	6795.8	6063.3	5207.7	5081.9	4368.9
12.5°	8726.1	8733.9	8749.4	8702.8	8626.3	8290.5	7756.4	6911.1	5811.8	5687.3	4728.0
15°	9196.7	9220.0	9300.4	9366.5	9406.7	9200.6	8683.3	7778.4	6488.5	6339.4	5126.0
17.5°	9434.0	9459.9	9598.6	9798.2	9982.3	9961.6	9550.6	8605.5	7138.0	6994.1	5553.8
20°	9638.8	9658.2	9813.8	10053.6	10379.0	10522.9	10292.2	9401.5	7849.7	7678.6	6007.5
22.5°	10232.5	10257.2	10303.8	10440.0	10727.8	10992.2	10880.7	10154.8	8501.8	8342.4	6438.0
25°	11378.6	11408.4	11307.3	11191.9	11246.3	11430.4	11451.2	10841.9	9163.0	8982.8	6900.8
27.5°	12759.2	12802.0	12629.6	12332.7	12073.4	12002.1	11977.5	11404.5	9794.4	9585.6	7358.4
30°	14111.4	14185.3	13961.0	13576.0	13100.2	12765.7	12518.1	11955.5	10416.6	10217.0	7790.1
32.5°	15432.4	15402.6	15077.2	14701.3	14143.8	13725.1	13126.1	12546.6	11116.7	10887.2	8219.2
35°	16337.3	16347.7	16045.6	15599.7	15068.1	14746.6	13940.3	13184.5	11831.0	11619.7	8706.7
37.5°	17107.4	17059.4	16717.2	16301.0	15843.4	15706.0	14893.1	13887.1	12605.0	12374.2	9225.2
40°	17364.1	17308.3	17084.0	16784.6	16417.7	16406.0	15944.5	14683.1	13480.0	13251.9	9809.9
42.5°	17208.5	17137.2	17045.2	16963.5	16850.7	16902.6	16932.4	15616.5	14442.0	14186.6	10486.6
45°	16634.2	16526.6	16591.4	16769.0	17014.0	17307.0	17824.3	16649.8	15519.3	15305.4	11281.3
47.5°	15751.3	15654.1	15856.4	16236.2	16902.6	17644.1	18668.3	17790.6	16805.3	16592.7	12413.1
50°	14509.4	14537.9	14827.0	15518.0	16525.3	17799.7	19708.0	19300.9	18674.7	18476.4	13957.1
52.5°	12471.4	12476.6	13290.8	14425.1	15856.4	17719.3	20284.9	21231.3	21227.4	20987.5	15427.2
55°	10578.7	10694.1	11338.4	12846.1	14772.6	17397.8	20688.1	22169.9	22903.6	22622.3	16797.5
57.5°	8730.0	8797.4	9408.0	10922.2	13225.9	16540.9	21101.6	23296.4	24835.3	24657.7	18501.0
60°	6627.2	6730.9	7362.3	8761.1	11247.6	15020.2	21140.5	24472.3	27144.2	26965.3	20402.9
62.5°	4301.5	4480.4	5071.5	6382.2	8854.5	12833.1	20238.2	25241.0	29332.5	29269.0	22090.8
65°	2472.2	2607.1	3018.0	4029.2	6108.7	10087.3	18092.7	24945.5	30679.5	30643.2	22722.1
66°	2019.8	2104.1	2419.1	3149.0	5040.4	8858.3	16845.5	24321.9	30813.0	30814.3	22649.5
67.5°	1615.3	1652.9	1794.2	2254.5	3719.4	7021.3	14617.0	22946.4	30647.1	30692.4	22181.5
70°	1336.6	1356.0	1400.1	1511.6	2030.2	4234.1	10375.1	19372.2	28981.2	29016.2	20354.9
72.5°	1199.2	1210.8	1227.7	1243.3	1432.5	2365.9	6336.8	15497.2	25409.6	25454.9	17571.5
75°	1086.4	1092.9	1090.3	1091.6	1201.8	1507.7	3274.7	11570.4	20545.5	20454.7	13460.6
77.5°	954.2	960.6	947.7	950.3	1063.1	1159.0	1629.6	8099.9	13865.1	13224.6	7584.0
80°	806.4	811.6	806.4	815.4	925.6	875.1	947.7	4556.9	6130.7	5798.8	2696.5
82.5°	609.3	631.4	646.9	683.2	762.3	622.3	633.9	1774.8	1866.8	1777.4	827.1
85°	267.1	325.4	487.4	522.5	573.0	373.4	416.1	723.4	759.7	736.4	300.8
87.5°	70.0	76.5	241.1	303.4	317.6	168.5	216.5	329.3	347.4	329.3	99.8
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°	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3
2.5°	3526.2	3462.7	3348.6	3247.5	3171.0	3119.2	3067.3	3041.4	3025.8	3010.3	3012.8
5°	3639.0	3510.7	3314.9	3176.2	3098.4	3049.1	3023.2	3012.8	3006.4	2990.8	2990.8
7.5°	3808.8	3627.3	3357.7	3215.1	3154.2	3116.6	3101.0	3095.8	3088.0	3069.9	3072.5
10°	4022.8	3768.7	3447.1	3308.4	3252.7	3211.2	3189.2	3181.4	3167.1	3146.4	3149.0
12.5°	4274.3	3943.7	3565.1	3419.9	3352.5	3296.8	3260.5	3238.4	3213.8	3186.6	3187.9
15°	4549.1	4134.2	3692.2	3519.7	3427.7	3349.9	3291.6	3254.0	3215.1	3181.4	3180.1
17.5°	4827.8	4318.3	3789.4	3574.2	3449.7	3347.3	3268.2	3209.9	3161.9	3120.5	3116.6
20°	5128.6	4484.3	3843.8	3569.0	3408.3	3286.4	3181.4	3108.8	3055.6	3014.1	3007.7
22.5°	5434.5	4639.8	3852.9	3515.9	3316.2	3167.1	3056.9	2976.6	2922.1	2879.3	2863.8
25°	5714.6	4760.4	3815.3	3413.4	3187.9	3027.1	2919.5	2837.8	2793.8	2743.2	2727.6
27.5°	5970.0	4844.7	3740.1	3282.5	3044.0	2885.8	2784.7	2714.7	2666.7	2627.8	2614.9
30°	6199.4	4890.0	3617.0	3126.9	2896.2	2752.3	2666.7	2618.7	2577.3	2528.0	2518.9
32.5°	6417.2	4890.0	3458.8	2957.1	2749.7	2634.3	2583.7	2553.9	2507.3	2459.3	2446.3
35°	6635.0	4860.2	3272.1	2779.5	2614.9	2550.0	2547.4	2512.4	2441.1	2376.3	2359.5
37.5°	6864.5	4799.3	3062.1	2613.6	2504.7	2512.4	2534.5	2456.7	2355.6	2263.5	2238.9
40°	7123.8	4715.0	2844.3	2469.7	2412.6	2495.6	2499.5	2376.3	2179.3	2095.0	2073.0
42.5°	7428.4	4630.8	2642.1	2342.6	2340.0	2445.0	2433.4	2202.6	2084.6	2041.8	2030.2
45°	7829.0	4582.8	2450.2	2222.0	2283.0	2363.3	2320.6	2106.7	2057.4	2032.8	2022.4
47.5°	8460.4	4607.4	2273.9	2126.1	2225.9	2281.7	2110.6	2067.8	2032.8	2002.9	1992.6
50°	9251.2	4593.2	2131.3	2060.0	2161.1	2196.1	2015.9	2017.2	1999.1	1965.4	1949.8
52.5°	9846.2	4481.7	2039.2	2022.4	2104.1	2044.4	1956.3	1967.9	1958.9	1909.6	1892.8
55°	10420.5	4385.7	1992.6	2008.1	2062.6	1855.2	1886.3	1914.8	1905.7	1857.8	1850.0
57.5°	11134.8	4367.6	1964.1	2012.0	2027.6	1760.5	1818.9	1856.5	1850.0	1829.2	1825.3
60°	12009.9	4372.8	1938.1	2018.5	1988.7	1690.5	1755.3	1803.3	1807.2	1803.3	1800.7
62.5°	12490.9	4231.5	1873.3	2000.4	1920.0	1629.6	1689.2	1759.2	1760.5	1768.3	1767.0
65°	12082.5	3808.8	1752.7	1936.8	1804.6	1579.0	1632.2	1708.7	1689.2	1724.2	1724.2
66°	11685.8	3565.1	1693.1	1895.3	1755.3	1559.6	1614.0	1682.7	1658.1	1706.1	1706.1
67.5°	10875.6	3154.2	1585.5	1807.2	1685.3	1532.4	1593.3	1640.0	1606.2	1677.6	1672.4
70°	9395.1	2439.8	1369.0	1607.5	1569.9	1492.2	1564.8	1554.4	1505.1	1614.0	1593.3
72.5°	7921.0	1853.9	1099.4	1345.7	1394.9	1441.6	1524.6	1445.5	1383.3	1459.8	1414.4
75°	6146.3	1393.6	868.6	1046.2	1178.4	1362.5	1476.6	1319.7	1230.3	1222.5	1197.9
77.5°	3322.7	956.7	688.4	798.6	936.0	1264.0	1444.2	1184.9	1050.1	1019.0	999.5
80°	1315.9	622.3	500.4	605.4	654.7	1121.4	1366.4	1028.1	866.0	834.9	805.1
82.5°	543.2	368.2	322.8	405.8	426.5	959.3	1226.4	842.7	668.9	925.6	982.7
85°	233.4	202.2	191.9	210.0	241.1	672.8	976.2	643.0	722.1	644.3	512.1
87.5°	70.0	85.6	81.7	80.4	88.2	160.8	519.9	357.8	530.2	200.9	150.4
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)