

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: P317369

Luminaire Tested: **GAN-SA5C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317369
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-SA5C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30800 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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



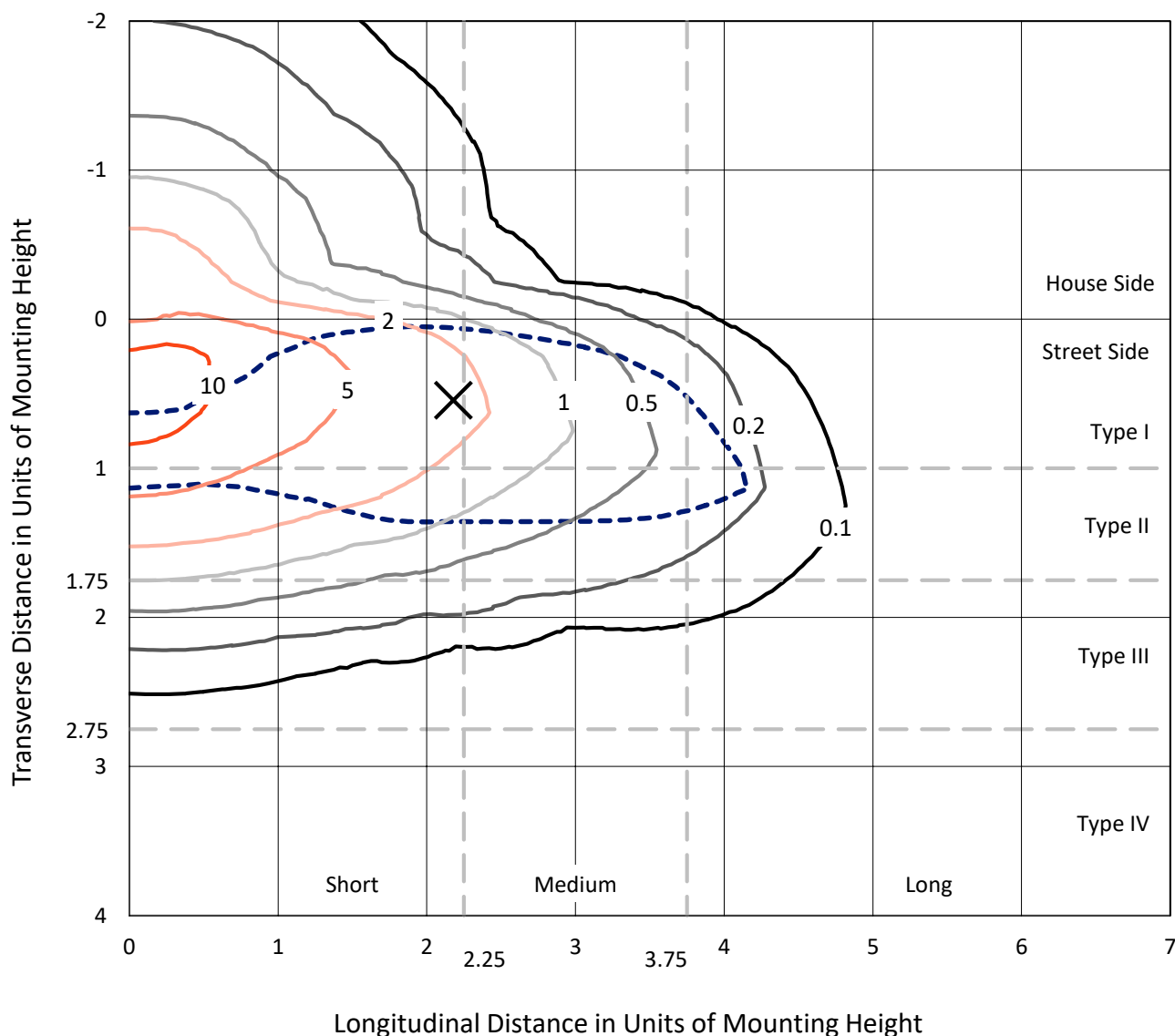
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

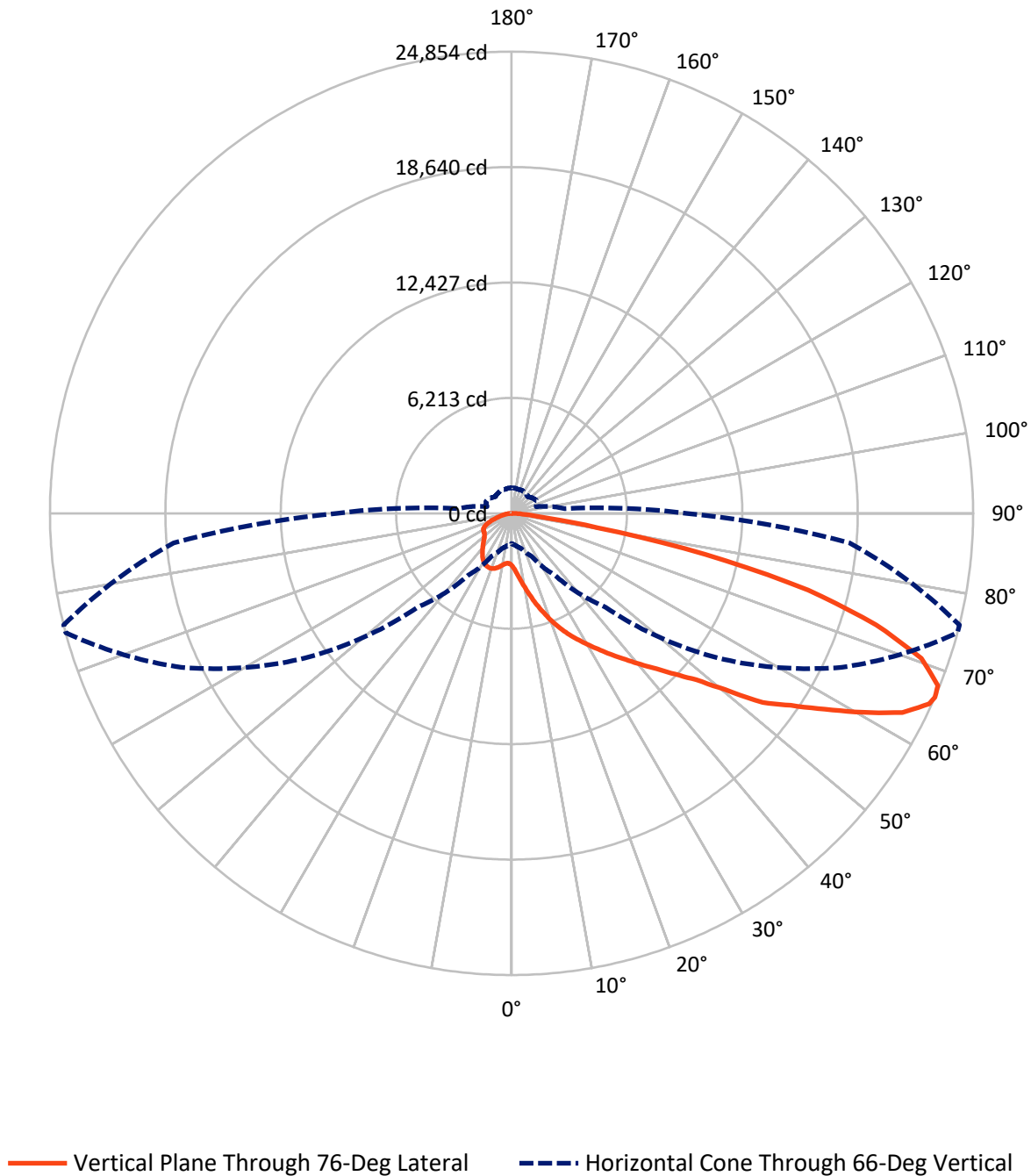


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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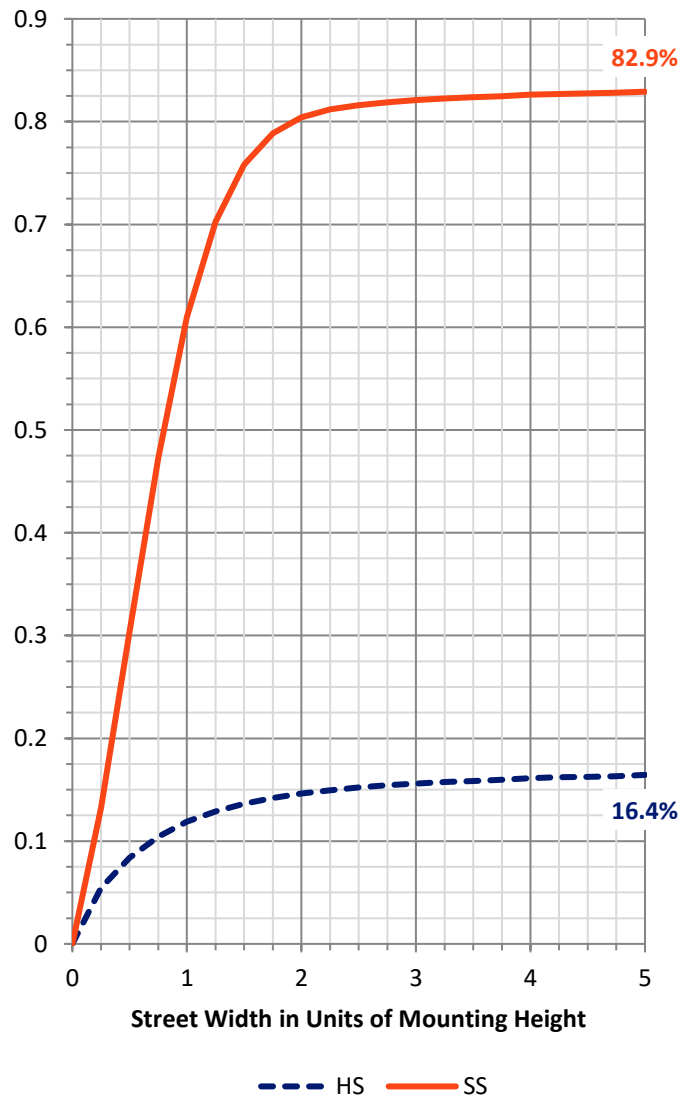
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5182.6	0.0	5182.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25617.4	0.0	25617.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	30800.0	0.0	30800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	1.1
10°-20°	1343.2	4.4
20°-30°	2610.1	8.5
30°-40°	4260.3	13.8
40°-50°	5820.6	18.9
50°-60°	6779.8	22.0
60°-70°	6078.2	19.7
70°-80°	3071.7	10.0
80°-90°	496.0	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°	30800.0	100.0
0°-180°	30800.0	100.0

Coefficient of Utilization



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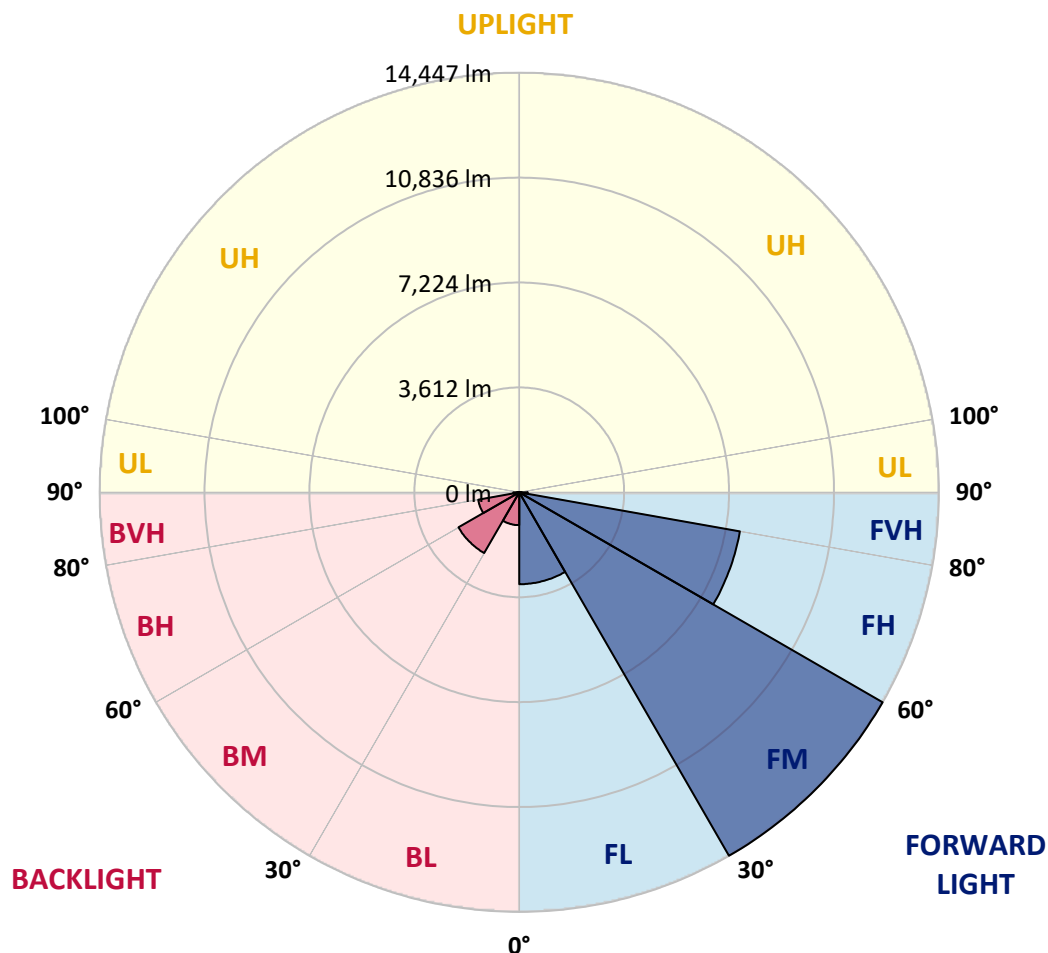
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3163.1	10.3			
FM	(30°-60°)	14447.3	46.9			
FH	(60°-80°)	7714.1	25.0			G4/12000
FVH	(80°-90°)	292.9	1.0			G3/500
BL	(0°-30°)	1130.3	3.7	B3/2500		
BM	(30°-60°)	2413.3	7.8	B2/2500		
BH	(60°-80°)	1435.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	203.1	0.7			G2/225
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°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	3733.9	3677.5	3672.2	3589.6	3570.8	3412.9	3296.9	3175.6	3037.5	3010.4	2901.6
5°	4796.3	4791.1	4718.9	4584.0	4478.4	4208.6	3942.0	3659.7	3350.2	3300.0	3055.3
7.5°	5752.0	5743.6	5688.2	5542.9	5390.2	5058.7	4678.1	4245.2	3743.3	3669.1	3263.4
10°	6477.7	6474.5	6455.7	6349.0	6219.4	5901.5	5481.2	4890.4	4200.3	4098.9	3523.8
12.5°	7038.1	7044.4	7056.9	7019.3	6957.6	6686.8	6256.0	5574.2	4687.5	4587.2	3813.4
15°	7417.7	7436.5	7501.3	7554.6	7587.1	7420.8	7003.6	6273.8	5233.4	5113.1	4134.4
17.5°	7609.0	7629.9	7741.8	7902.8	8051.3	8034.6	7703.1	6940.9	5757.2	5641.2	4479.5
20°	7774.2	7789.9	7915.4	8108.8	8371.3	8487.3	8301.2	7582.9	6331.3	6193.2	4845.4
22.5°	8253.1	8273.0	8310.6	8420.4	8652.6	8865.9	8775.9	8190.4	6857.2	6728.6	5192.6
25°	9177.5	9201.5	9120.0	9026.9	9070.8	9219.3	9236.0	8744.6	7390.5	7245.1	5565.9
27.5°	10291.1	10325.6	10186.5	9947.0	9737.9	9680.4	9660.5	9198.4	7899.7	7731.4	5935.0
30°	11381.6	11441.2	11260.3	10949.8	10566.1	10296.3	10096.6	9642.8	8401.6	8240.6	6283.2
32.5°	12447.1	12423.1	12160.6	11857.4	11407.8	11070.0	10587.0	10119.6	8966.2	8781.2	6629.3
35°	13177.0	13185.3	12941.7	12582.0	12153.3	11894.0	11243.6	10634.0	9542.4	9371.9	7022.4
37.5°	13798.1	13759.4	13483.4	13147.7	12778.6	12667.8	12012.2	11200.7	10166.6	9980.5	7440.7
40°	14005.1	13960.2	13779.3	13537.7	13241.8	13232.4	12860.2	11842.8	10872.4	10688.4	7912.3
42.5°	13879.6	13822.1	13747.9	13682.0	13591.1	13632.9	13656.9	12595.6	11648.3	11442.3	8458.1
45°	13416.4	13329.6	13381.9	13525.2	13722.8	13959.1	14376.3	13429.0	12517.2	12344.7	9099.0
47.5°	12704.4	12625.9	12789.1	13095.4	13632.9	14231.0	15057.0	14349.1	13554.5	13383.0	10011.9
50°	11702.6	11725.7	11958.8	12516.1	13328.6	14356.4	15895.6	15567.3	15062.2	14902.3	11257.2
52.5°	10058.9	10063.1	10719.8	11634.7	12789.1	14291.6	16360.9	17124.2	17121.1	16927.6	12443.0
55°	8532.3	8625.4	9145.0	10361.1	11914.9	14032.3	16686.1	17881.3	18473.1	18246.2	13548.2
57.5°	7041.2	7095.6	7588.1	8809.4	10667.5	13341.1	17019.7	18789.9	20031.1	19887.8	14922.1
60°	5345.2	5428.9	5938.1	7066.3	9071.9	12114.6	17051.0	19738.3	21893.3	21749.0	16456.1
62.5°	3469.4	3613.7	4090.5	5147.6	7141.6	10350.7	16323.3	20358.3	23658.3	23607.1	17817.5
65°	1994.0	2102.8	2434.2	3249.8	4927.0	8136.0	14592.8	20119.9	24744.7	24715.5	18326.7
66°	1629.1	1697.1	1951.1	2539.8	4065.4	7144.8	13586.9	19617.0	24852.4	24853.5	18268.1
67.5°	1302.9	1333.2	1447.1	1818.3	2999.9	5663.1	11789.4	18507.6	24718.6	24755.2	17890.7
70°	1078.0	1093.7	1129.3	1219.2	1637.5	3415.0	8368.1	15624.8	23375.0	23403.2	16417.4
72.5°	967.2	976.6	990.2	1002.8	1155.4	1908.3	5111.0	12499.4	20494.3	20530.9	14172.4
75°	876.2	881.5	879.4	880.4	969.3	1216.1	2641.3	9332.2	16571.1	16497.9	10856.7
77.5°	769.6	774.8	764.4	766.4	857.4	934.8	1314.4	6533.1	11183.0	10666.4	6116.9
80°	650.4	654.6	650.4	657.7	746.6	705.8	764.4	3675.4	4944.8	4677.1	2174.9
82.5°	491.4	509.2	521.8	551.0	614.8	501.9	511.3	1431.5	1505.7	1433.6	667.1
85°	215.4	262.5	393.2	421.4	462.2	301.1	335.6	583.5	612.7	593.9	242.6
87.5°	56.5	61.7	194.5	244.7	256.2	135.9	174.6	265.6	280.2	265.6	80.5
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°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	2844.1	2792.9	2700.9	2619.3	2557.6	2515.8	2474.0	2453.0	2440.5	2427.9	2430.0
5°	2935.1	2831.6	2673.7	2561.8	2499.0	2459.3	2438.4	2430.0	2424.8	2412.3	2412.3
7.5°	3072.0	2925.7	2708.2	2593.2	2544.0	2513.7	2501.1	2497.0	2490.7	2476.0	2478.1
10°	3244.6	3039.6	2780.3	2668.4	2623.5	2590.0	2572.2	2566.0	2554.5	2537.7	2539.8
12.5°	3447.4	3180.8	2875.5	2758.4	2704.0	2659.0	2629.8	2612.0	2592.1	2570.1	2571.2
15°	3669.1	3334.5	2977.9	2838.9	2764.6	2701.9	2654.8	2624.5	2593.2	2566.0	2564.9
17.5°	3893.9	3483.0	3056.4	2882.8	2782.4	2699.8	2636.0	2589.0	2550.3	2516.8	2513.7
20°	4136.5	3616.8	3100.3	2878.6	2749.0	2650.7	2566.0	2507.4	2464.5	2431.1	2425.9
22.5°	4383.3	3742.3	3107.6	2835.7	2674.7	2554.5	2465.6	2400.8	2356.8	2322.3	2309.8
25°	4609.1	3839.5	3077.3	2753.1	2571.2	2441.5	2354.8	2288.9	2253.3	2212.5	2200.0
27.5°	4815.1	3907.5	3016.6	2647.5	2455.1	2327.6	2246.0	2189.5	2150.9	2119.5	2109.0
30°	5000.2	3944.1	2917.3	2522.1	2335.9	2219.9	2150.9	2112.2	2078.7	2039.0	2031.7
32.5°	5175.9	3944.1	2789.7	2385.1	2217.8	2124.7	2083.9	2059.9	2022.2	1983.6	1973.1
35°	5351.5	3920.1	2639.2	2241.8	2109.0	2056.7	2054.7	2026.4	1968.9	1916.6	1903.0
37.5°	5536.6	3870.9	2469.8	2108.0	2020.1	2026.4	2044.2	1981.5	1899.9	1825.7	1805.8
40°	5745.7	3802.9	2294.1	1991.9	1945.9	2012.8	2016.0	1916.6	1757.7	1689.7	1672.0
42.5°	5991.4	3735.0	2131.0	1889.4	1887.4	1972.1	1962.6	1776.5	1681.4	1646.9	1637.5
45°	6314.5	3696.3	1976.2	1792.2	1841.3	1906.2	1871.7	1699.1	1659.4	1639.5	1631.2
47.5°	6823.8	3716.2	1834.0	1714.8	1795.3	1840.3	1702.3	1667.8	1639.5	1615.5	1607.1
50°	7461.6	3704.7	1719.0	1661.5	1743.1	1771.3	1625.9	1627.0	1612.4	1585.2	1572.6
52.5°	7941.5	3614.7	1644.8	1631.2	1697.1	1649.0	1577.9	1587.3	1579.9	1540.2	1526.6
55°	8404.7	3537.4	1607.1	1619.7	1663.6	1496.3	1521.4	1544.4	1537.1	1498.4	1492.1
57.5°	8980.9	3522.7	1584.1	1622.8	1635.4	1420.0	1467.0	1497.3	1492.1	1475.4	1472.2
60°	9686.7	3526.9	1563.2	1628.0	1604.0	1363.5	1415.8	1454.5	1457.6	1454.5	1452.4
62.5°	10074.6	3412.9	1510.9	1613.4	1548.6	1314.4	1362.5	1418.9	1420.0	1426.2	1425.2
65°	9745.2	3072.0	1413.7	1562.2	1455.5	1273.6	1316.4	1378.1	1362.5	1390.7	1390.7
66°	9425.3	2875.5	1365.6	1528.7	1415.8	1257.9	1301.8	1357.2	1337.4	1376.0	1376.0
67.5°	8771.8	2544.0	1278.8	1457.6	1359.3	1235.9	1285.1	1322.7	1295.5	1353.0	1348.9
70°	7577.7	1967.9	1104.2	1296.6	1266.3	1203.5	1262.1	1253.7	1214.0	1301.8	1285.1
72.5°	6388.8	1495.2	886.7	1085.4	1125.1	1162.7	1229.7	1165.9	1115.7	1177.4	1140.8
75°	4957.3	1124.0	700.6	843.8	950.5	1099.0	1191.0	1064.4	992.3	986.0	966.2
77.5°	2679.9	771.7	555.2	644.1	754.9	1019.5	1164.8	955.7	847.0	821.9	806.2
80°	1061.3	501.9	403.6	488.3	528.0	904.5	1102.1	829.2	698.5	673.4	649.3
82.5°	438.1	297.0	260.4	327.3	344.0	773.8	989.2	679.7	539.5	746.6	792.6
85°	188.2	163.1	154.8	169.4	194.5	542.7	787.4	518.6	582.4	519.7	413.0
87.5°	56.5	69.0	65.9	64.8	71.1	129.7	419.3	288.6	427.7	162.1	121.3
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)