

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: P193097

Luminaire Tested: **GAN-AF-09-LED-U-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33276 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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



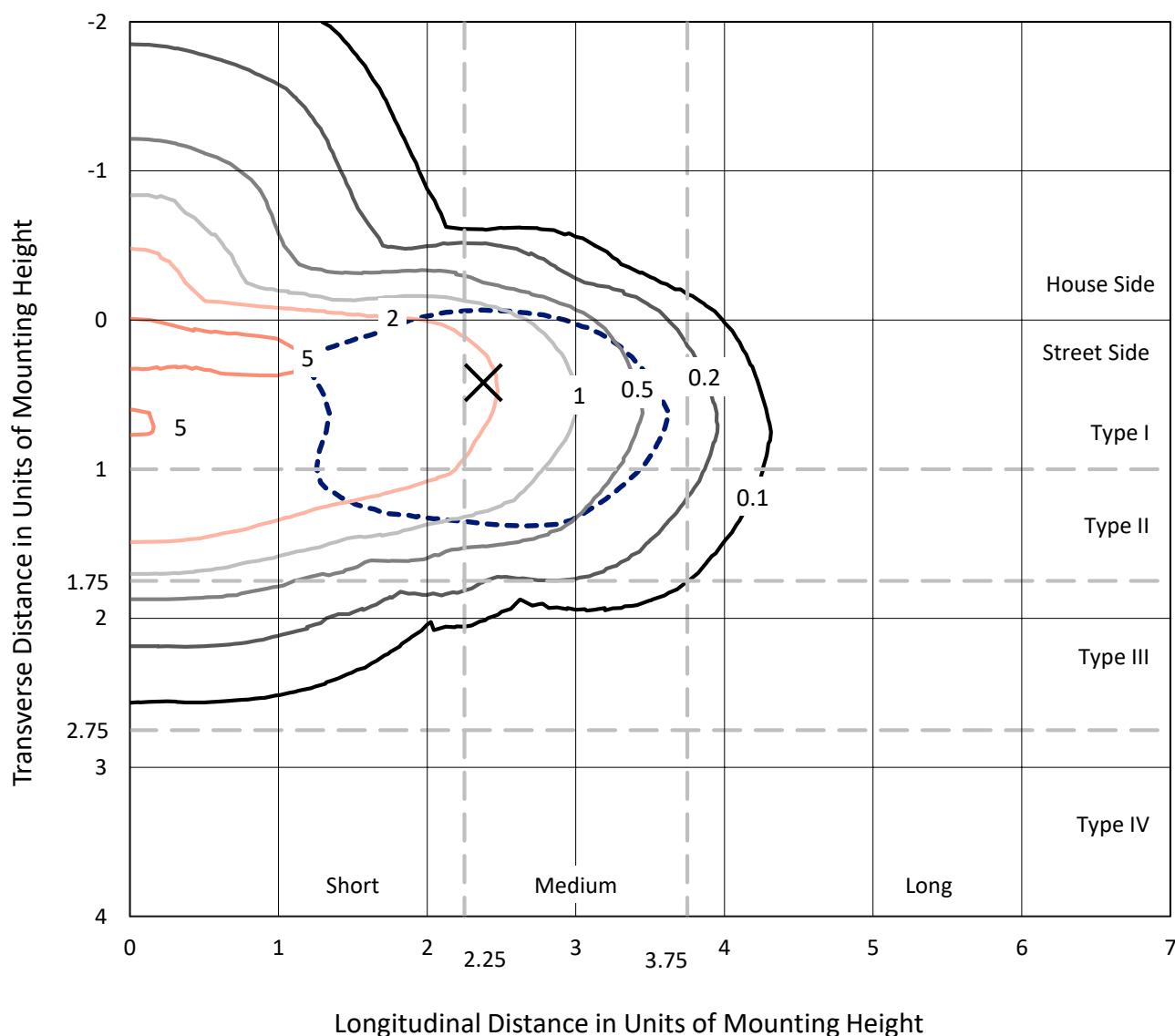
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

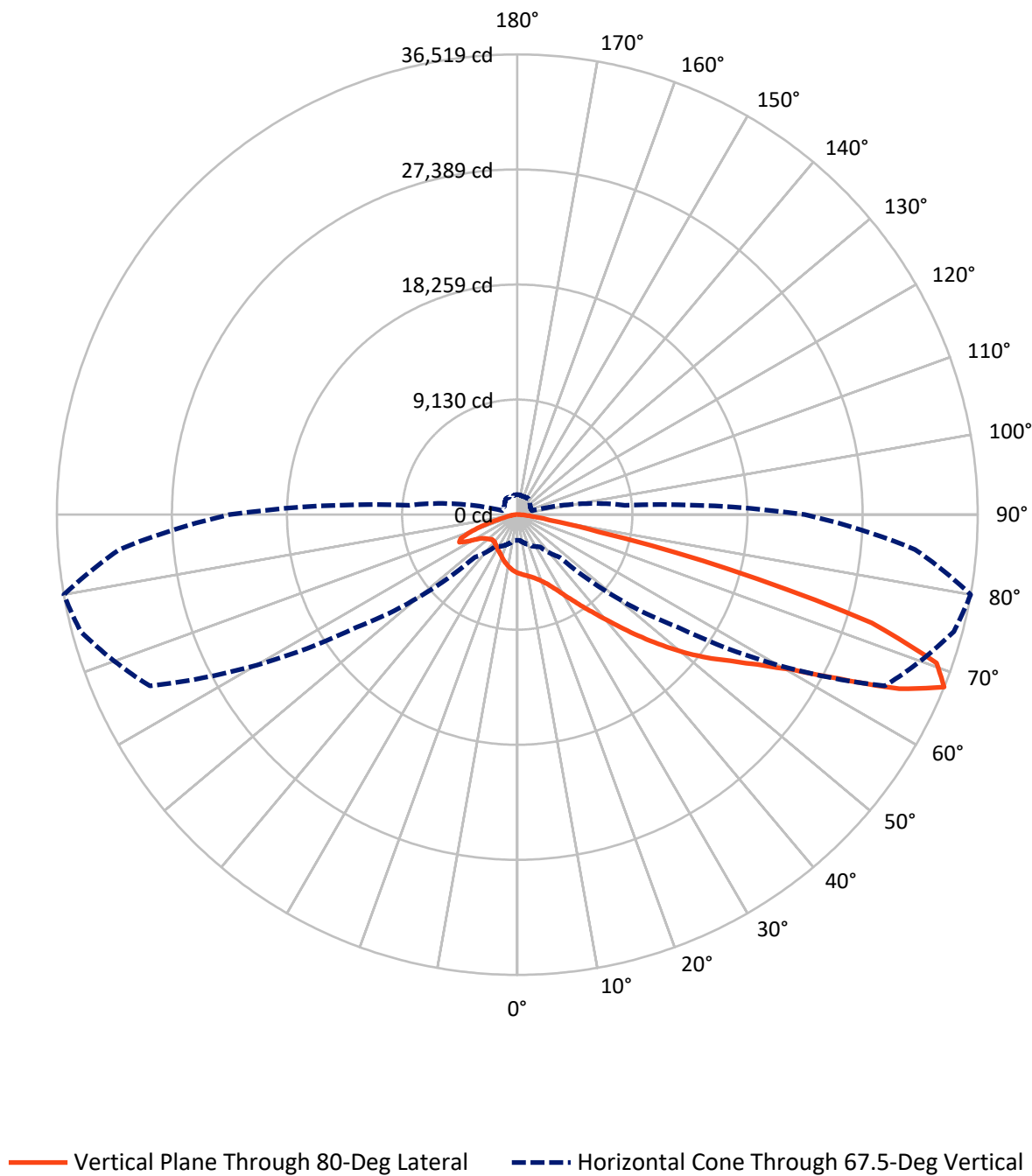


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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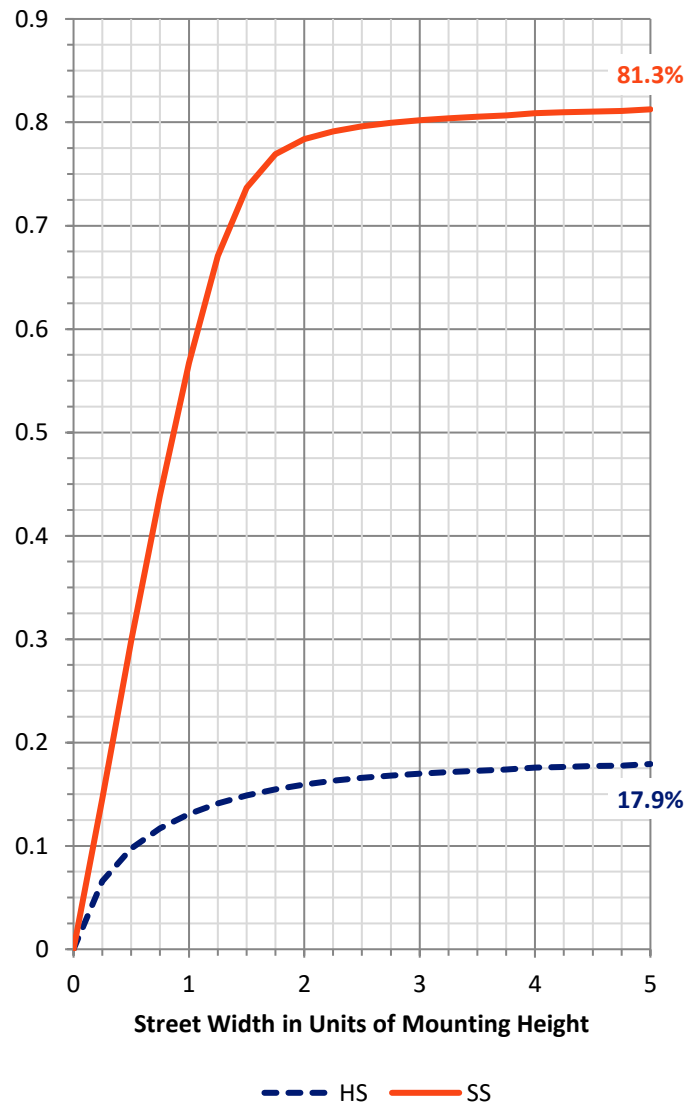
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6128.2	0.0	6128.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27147.8	0.0	27147.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	33276.0	0.0	33276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.5	1.3
10°-20°	1228.5	3.7
20°-30°	2033.4	6.1
30°-40°	3326.1	10.0
40°-50°	5370.4	16.1
50°-60°	7753.2	23.3
60°-70°	8556.2	25.7
70°-80°	3943.9	11.9
80°-90°	637.9	1.9
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°	33276.0	100.0
0°-180°	33276.0	100.0

Coefficient of Utilization



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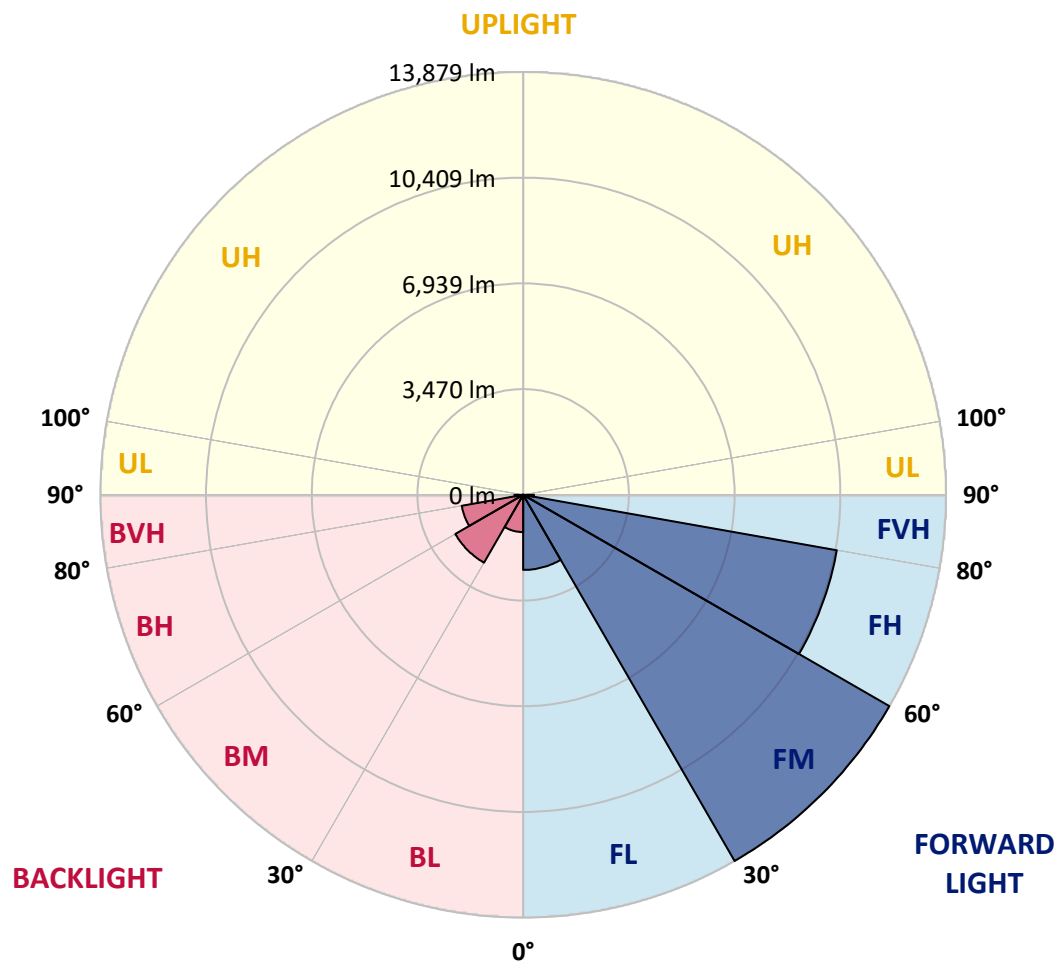
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2465.7	7.4			
FM	(30°-60°)	13878.6	41.7			
FH	(60°-80°)	10452.9	31.4			G4/12000
FVH	(80°-90°)	350.7	1.1			G3/500
BL	(0°-30°)	1222.7	3.7	B3/2500		
BM	(30°-60°)	2571.2	7.7	B3/5000		
BH	(60°-80°)	2047.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	287.2	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0
2.5°	5057.2	5027.7	5032.6	5024.4	4999.8	4957.2	4911.3	4827.7	4741.0	4695.1	4659.1
5°	5479.8	5471.6	5460.1	5433.9	5371.6	5283.2	5173.4	5026.0	4867.1	4783.6	4703.3
7.5°	5795.9	5791.1	5776.3	5759.9	5699.3	5592.9	5427.4	5217.6	4986.7	4872.0	4747.6
10°	5822.2	5830.4	5841.9	5886.1	5894.2	5836.9	5668.2	5414.3	5111.1	4963.7	4804.9
12.5°	5599.3	5617.3	5661.6	5774.7	5894.2	5964.7	5877.8	5620.7	5257.0	5078.4	4876.9
15°	5304.5	5314.4	5368.4	5524.0	5738.7	5956.5	6038.4	5848.4	5445.4	5225.9	4985.1
17.5°	5178.4	5183.3	5221.0	5324.2	5524.0	5835.3	6128.5	6095.8	5676.3	5409.3	5117.7
20°	5114.4	5125.9	5180.0	5281.6	5407.7	5679.7	6141.6	6362.8	5951.6	5638.7	5284.9
22.5°	5296.4	5291.4	5311.1	5361.8	5468.3	5632.1	6131.7	6638.0	6302.2	5933.6	5502.8
25°	5720.6	5738.7	5704.2	5646.8	5681.3	5795.9	6184.2	6936.1	6741.2	6312.0	5787.8
27.5°	6325.1	6307.1	6256.3	6121.9	6051.6	6100.7	6357.9	7257.2	7286.7	6810.0	6164.5
30°	6927.9	6913.2	6864.1	6700.3	6556.1	6515.1	6695.3	7625.9	7937.1	7408.0	6626.6
32.5°	7553.7	7537.4	7491.5	7327.7	7154.1	7059.0	7175.3	8051.8	8703.8	8122.3	7170.3
35°	8325.3	8294.2	8197.6	7969.8	7799.5	7725.7	7779.8	8587.4	9588.4	8967.6	7830.6
37.5°	9051.0	9098.6	9000.2	8685.8	8464.6	8438.4	8498.9	9241.1	10541.9	9912.8	8589.1
40°	9780.1	9788.2	9699.8	9442.6	9214.9	9172.4	9324.6	10034.0	11667.2	11043.2	9511.3
42.5°	10533.6	10550.0	10400.9	10163.4	9996.3	10004.6	10178.1	10962.8	12958.1	12374.9	10572.9
45°	11426.5	11451.0	11287.2	10975.9	10823.6	11129.9	11057.9	12004.8	14373.6	13888.7	11791.8
47.5°	12360.3	12397.8	12273.4	11981.8	11791.8	12212.8	11937.5	13159.6	15897.1	15512.1	13130.2
50°	12869.7	12923.7	13045.0	13023.7	12982.7	12912.3	12918.9	14398.1	17468.2	17202.8	14506.3
52.5°	12596.2	12594.6	13036.9	13574.2	14147.6	14190.0	14114.7	15703.9	18935.9	18855.8	15802.0
55°	11344.5	11429.7	12099.8	13140.1	14706.2	15684.1	15906.9	17199.5	20377.6	20471.0	17117.5
57.5°	9260.7	9331.2	10235.5	11685.3	13952.5	16572.0	18456.0	19373.5	21989.6	22425.4	18868.8
60°	6280.9	6366.1	7324.4	9065.8	11924.4	16077.3	20882.1	23252.7	23919.4	24910.4	21326.1
62.5°	3690.9	3768.0	4549.3	5718.9	8395.8	13778.9	21947.0	28771.7	26984.5	28660.4	25074.4
65°	2540.9	2593.3	2973.4	3559.7	4824.5	9280.4	20626.6	32582.2	31700.8	33306.3	29420.5
67.5°	2044.5	2037.9	2339.3	2739.0	3106.0	4785.2	15597.3	32151.2	35848.7	36518.9	31676.2
70°	1684.1	1677.5	1882.3	2213.1	2481.9	2694.9	8495.7	27132.0	35003.5	35275.3	29599.0
72.5°	1408.9	1415.5	1546.4	1792.2	2036.3	2029.7	3733.5	19086.7	27536.5	29417.2	23595.0
75°	1189.3	1192.6	1279.4	1453.0	1653.0	1634.9	2024.8	10340.3	16006.9	17315.7	13079.4
77.5°	1012.4	1015.7	1071.4	1168.1	1310.6	1304.0	1477.6	4467.4	6677.3	6595.4	4473.9
80°	902.7	902.7	928.8	946.8	1025.5	996.0	1096.0	2146.1	2822.6	2606.4	1785.7
82.5°	707.7	710.9	871.6	865.0	807.7	769.9	769.9	1264.6	1495.6	1382.6	1045.2
85°	398.0	396.4	561.9	678.2	710.9	542.3	537.3	707.7	814.2	717.5	506.2
87.5°	170.3	173.6	260.5	301.4	402.9	337.5	332.5	365.4	414.4	358.8	234.3
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°	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0	4623.0
2.5°	4624.6	4582.0	4488.7	4372.3	4267.5	4198.8	4136.4	4046.3	4051.3	3989.0	3943.1
5°	4621.3	4532.9	4316.7	4059.4	3812.0	3633.5	3499.2	3378.0	3348.5	3291.1	3256.7
7.5°	4624.6	4480.5	4116.8	3705.6	3399.3	3173.2	3058.5	2994.6	2979.9	2960.3	2961.9
10°	4636.1	4432.9	3897.3	3374.7	3053.6	2904.5	2876.7	2896.4	2919.3	2925.9	2927.5
12.5°	4662.3	4390.4	3656.5	3079.8	2837.4	2791.5	2839.0	2906.2	2950.4	2971.8	2970.1
15°	4721.3	4357.6	3425.5	2848.8	2717.9	2742.3	2830.8	2925.9	2989.8	3019.2	3020.8
17.5°	4785.2	4310.1	3187.9	2671.9	2629.4	2691.6	2801.3	2912.8	2991.4	3024.1	3030.7
20°	4868.7	4251.2	2939.0	2539.1	2545.7	2616.2	2719.5	2830.8	2917.7	2945.5	2958.6
22.5°	4978.5	4187.3	2721.1	2431.1	2450.8	2504.8	2585.1	2681.8	2757.0	2770.2	2781.6
25°	5125.9	4118.4	2547.4	2332.8	2341.0	2372.1	2426.2	2483.5	2535.9	2521.1	2532.6
27.5°	5324.2	4059.4	2418.0	2242.6	2227.9	2234.5	2262.3	2280.3	2308.2	2267.2	2272.1
30°	5556.8	3995.6	2318.1	2164.1	2123.1	2111.7	2118.2	2128.1	2149.3	2093.6	2085.4
32.5°	5827.2	3918.6	2224.6	2095.3	2037.9	2015.0	2018.2	2044.5	2126.4	2092.0	2074.0
35°	6141.6	3831.7	2126.4	2019.8	1980.6	1947.9	1944.6	2026.4	2270.5	2249.2	2232.8
37.5°	6510.2	3745.0	2028.1	1934.8	1938.0	1901.9	1890.5	1983.8	2298.4	2214.8	2203.4
40°	6978.7	3699.1	1944.6	1844.7	1885.6	1880.7	1857.7	1905.3	2114.9	1962.6	1942.9
42.5°	7558.7	3705.6	1882.3	1747.9	1823.3	1875.8	1839.7	1841.3	1916.7	1802.0	1783.9
45°	8274.5	3782.5	1838.1	1671.0	1752.8	1870.8	1833.2	1806.9	1813.4	1752.8	1743.0
47.5°	9110.0	3941.5	1806.9	1607.1	1685.8	1852.8	1831.5	1797.1	1782.3	1749.6	1741.4
50°	10038.8	4172.5	1783.9	1546.4	1625.1	1823.3	1833.2	1787.3	1770.9	1757.8	1752.8
52.5°	10951.4	4436.3	1749.6	1494.0	1577.6	1787.3	1838.1	1777.4	1759.4	1749.6	1744.7
55°	11968.7	4765.6	1697.2	1449.8	1538.3	1741.4	1838.1	1762.7	1743.0	1744.7	1743.0
57.5°	13343.2	5298.0	1634.9	1412.1	1490.8	1685.8	1806.9	1746.3	1721.7	1723.3	1724.9
60°	15490.8	6236.6	1559.5	1374.5	1431.9	1620.2	1764.3	1710.2	1685.8	1692.2	1693.8
62.5°	18649.3	7614.4	1461.3	1318.8	1369.6	1549.8	1705.3	1664.4	1639.9	1656.3	1656.3
65°	21932.2	8829.9	1340.1	1248.3	1304.0	1472.7	1631.7	1607.1	1582.5	1620.2	1618.5
67.5°	22815.2	8557.9	1218.8	1171.4	1238.5	1387.6	1543.2	1530.0	1516.9	1582.5	1579.3
70°	20267.8	6870.7	1107.5	1092.7	1166.5	1295.9	1448.1	1448.1	1439.9	1489.1	1477.6
72.5°	15441.7	4872.0	1001.0	1009.1	1084.5	1195.9	1345.0	1356.5	1343.4	1367.9	1358.1
75°	8266.3	2788.2	894.5	917.3	982.9	1094.3	1230.3	1241.7	1233.5	1231.9	1236.9
77.5°	2747.3	1363.0	783.1	819.1	876.5	989.5	1110.7	1128.7	1109.1	1105.8	1104.2
80°	1223.7	856.8	660.2	707.7	758.5	869.9	984.5	999.2	978.0	1007.5	969.7
82.5°	786.3	563.6	529.2	581.6	630.8	750.3	858.4	861.7	842.1	978.0	833.8
85°	381.8	349.0	398.0	445.6	488.2	589.8	710.9	712.6	663.4	604.5	583.2
87.5°	190.0	203.1	265.4	308.0	329.3	404.6	517.7	507.8	486.5	442.3	407.9
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)