

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: P321081

Luminaire Tested: **GAN-SA7B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30484 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

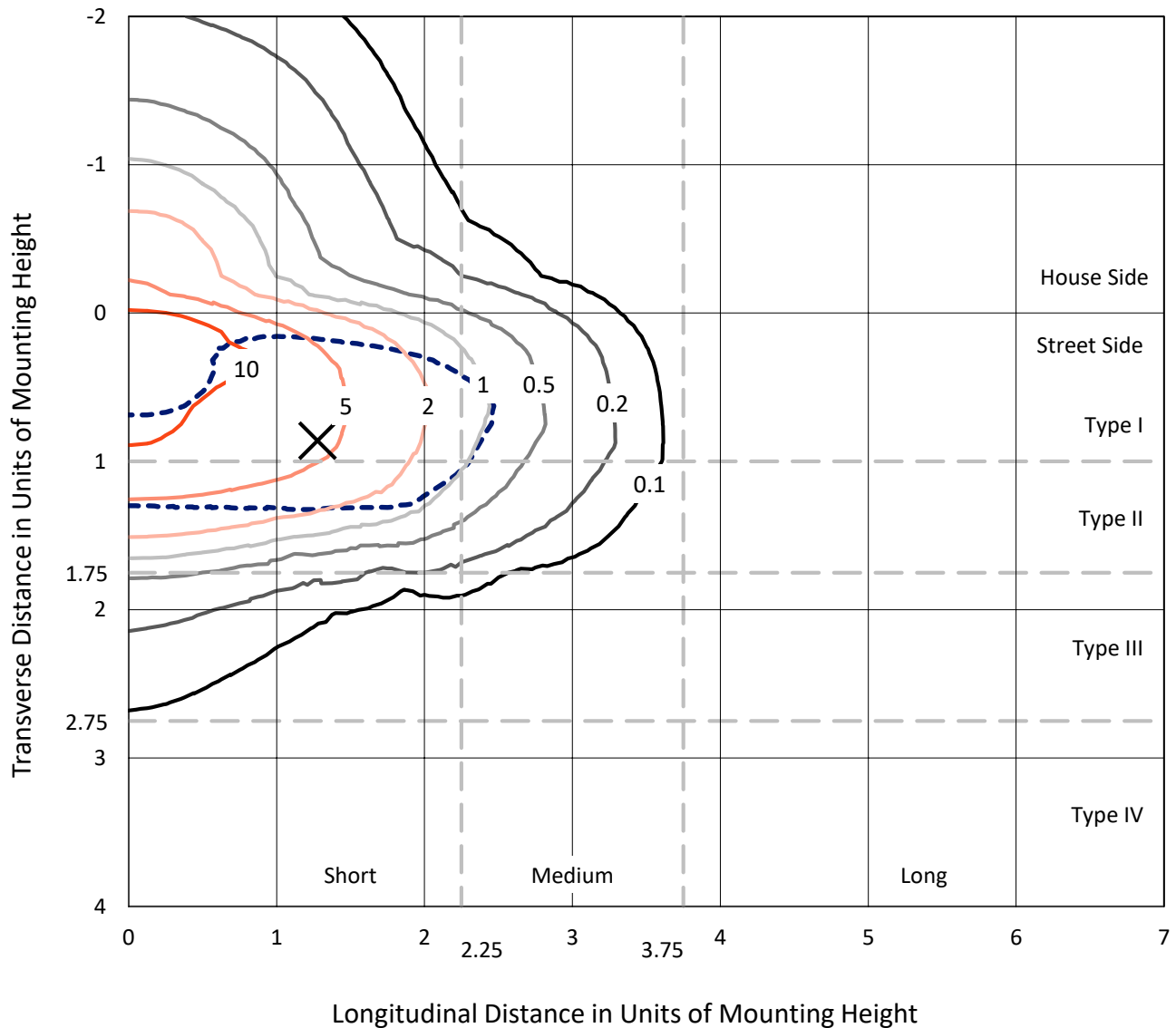
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

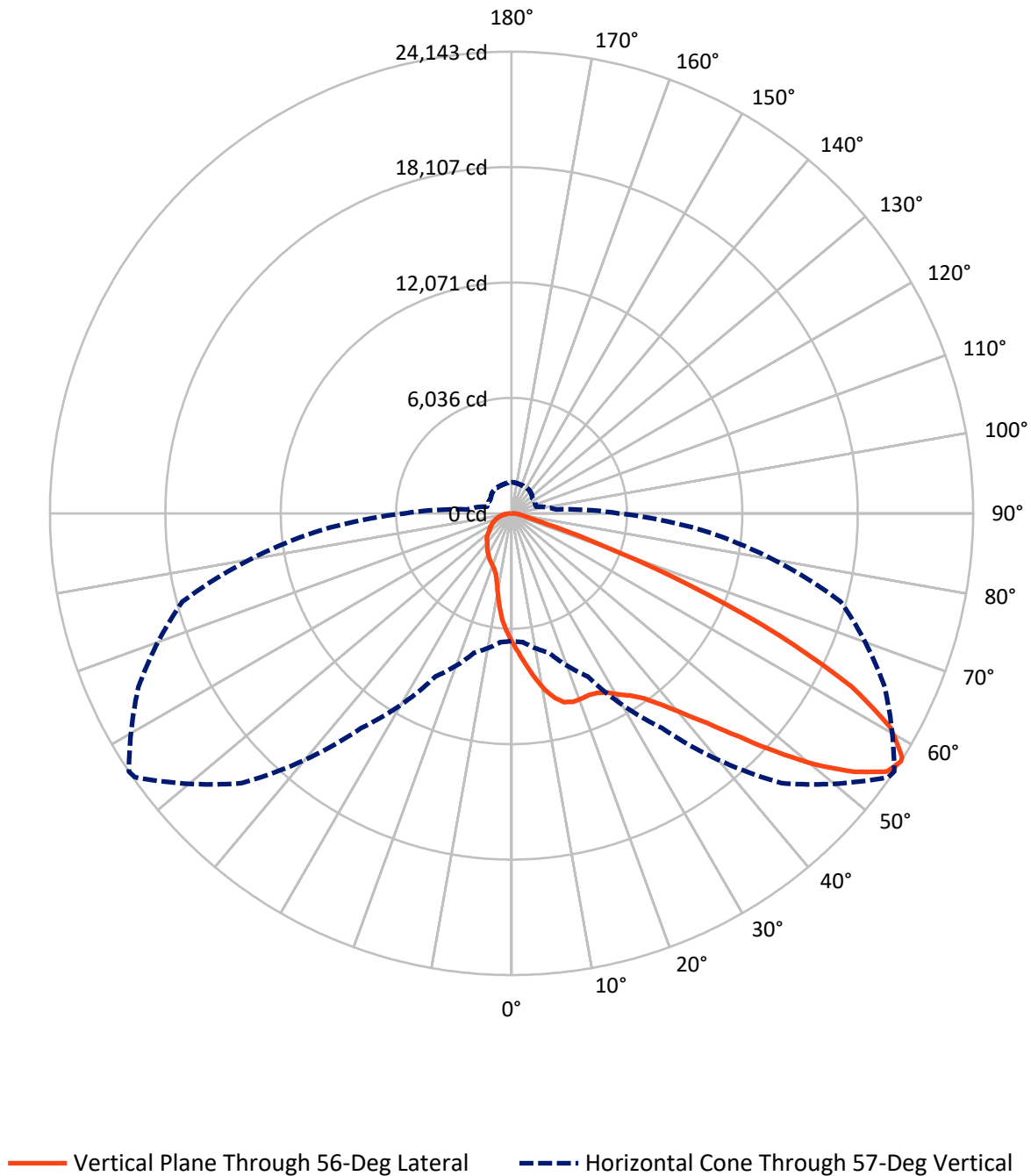
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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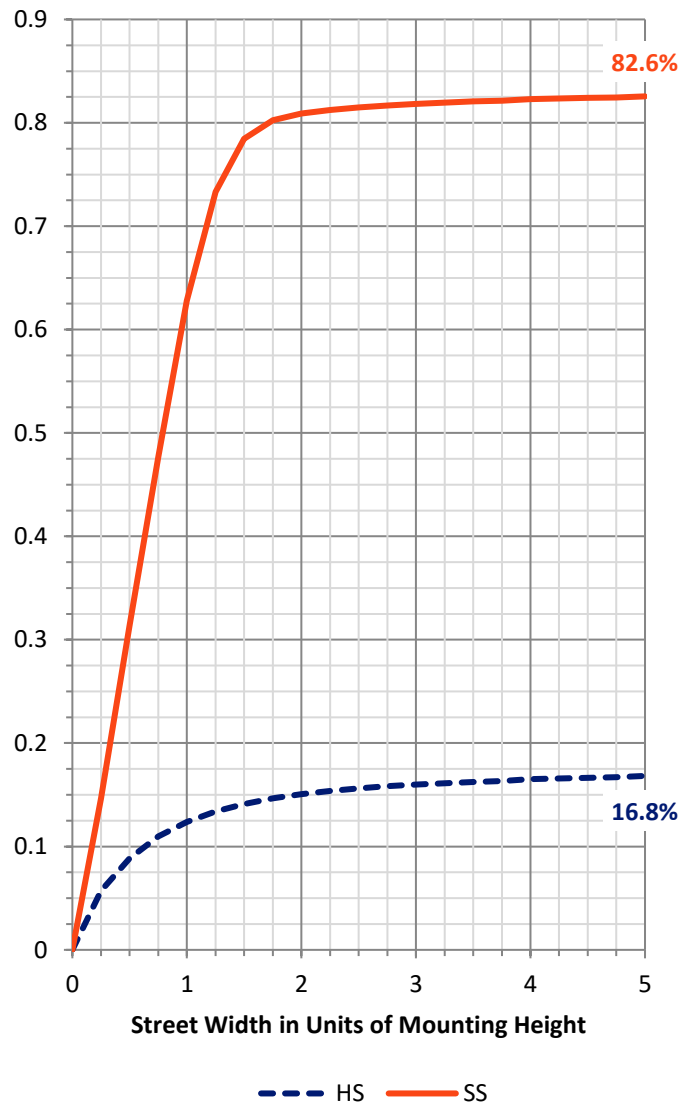
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5254.8	0.0	5254.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	25229.2	0.0	25229.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	30484.0	0.0	30484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.9	2.1
10°-20°	1826.1	6.0
20°-30°	2974.3	9.8
30°-40°	4446.2	14.6
40°-50°	6744.0	22.1
50°-60°	7558.8	24.8
60°-70°	4464.5	14.6
70°-80°	1462.8	4.8
80°-90°	361.4	1.2
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°	30484.0	100.0
0°-180°	30484.0	100.0

Coefficient of Utilization



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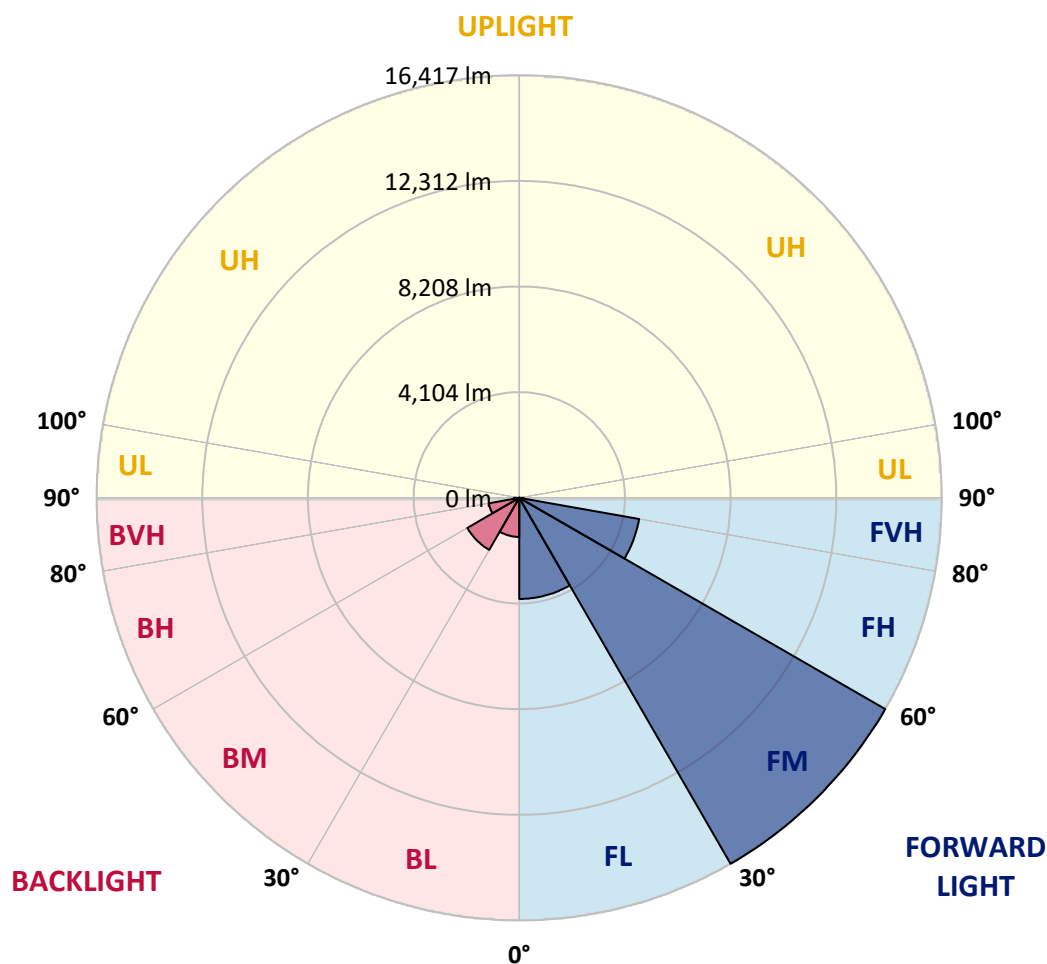
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3926.8	12.9			
FM	(30°-60°)	16416.6	53.9			
FH	(60°-80°)	4726.6	15.5			G2/5000
FVH	(80°-90°)	159.1	0.5			G2/225
BL	(0°-30°)	1519.4	5.0	B3/2500		
BM	(30°-60°)	2332.4	7.7	B2/2500		
BH	(60°-80°)	1200.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	202.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4
2.5°	7764.0	7835.2	7803.8	7694.8	7611.0	7492.6	7360.6	7320.8	7181.5	7025.4	6837.9
5°	8992.8	8957.2	8905.9	8736.2	8557.0	8348.5	8017.5	7965.1	7655.0	7302.0	6929.0
7.5°	9692.6	9689.5	9659.1	9559.6	9396.2	9123.8	8724.6	8662.8	8194.5	7626.7	7048.4
10°	9591.0	9583.7	9634.0	9737.7	9786.9	9730.4	9394.1	9332.3	8757.1	7986.1	7186.7
12.5°	9013.8	9018.0	9098.6	9316.5	9613.0	9969.2	9914.7	9884.4	9340.6	8392.5	7354.3
15°	8564.3	8573.8	8637.7	8827.3	9177.2	9823.6	10231.1	10241.6	9905.3	8840.9	7550.2
17.5°	8367.4	8387.3	8416.6	8549.7	8870.3	9533.4	10306.5	10363.1	10399.8	9306.1	7738.8
20°	8430.2	8449.1	8457.5	8542.3	8805.3	9357.4	10254.2	10355.8	10779.0	9744.0	7927.4
22.5°	8712.1	8723.6	8728.8	8750.8	8955.1	9407.7	10219.6	10326.5	11053.5	10136.8	8069.9
25°	9179.3	9170.9	9137.4	9109.1	9246.3	9606.7	10299.2	10400.8	11276.6	10493.0	8163.1
27.5°	9738.7	9728.3	9663.3	9585.8	9664.4	9916.8	10528.6	10609.3	11476.7	10826.2	8210.2
30°	10410.3	10383.0	10260.5	10168.3	10198.6	10382.0	10906.8	10980.2	11785.8	11204.4	8256.3
32.5°	11186.6	11157.2	10980.2	10827.2	10827.2	10980.2	11296.6	11357.3	12047.7	11631.8	8330.7
35°	12158.7	12122.1	11891.6	11634.9	11562.6	11640.2	11827.7	11870.7	12519.1	12170.3	8465.9
37.5°	13304.9	13255.6	12957.0	12613.4	12455.2	12451.0	12586.2	12674.2	13272.4	12877.4	8695.3
40°	14454.1	14419.5	14158.7	13888.4	13578.3	13478.8	13687.2	13714.5	14257.1	13755.3	8988.6
42.5°	15342.5	15336.2	15288.0	15323.6	15006.2	14805.1	14968.5	14990.5	15459.8	14705.5	9300.8
45°	15811.8	15822.3	16055.9	16573.4	16690.8	16544.1	16624.8	16631.1	16834.3	15664.1	9586.8
47.5°	15435.7	15490.2	16081.1	17238.7	18199.4	18686.5	18552.4	18629.9	18166.9	16487.5	9811.0
50°	13970.1	14037.1	15042.9	16942.2	18903.4	20759.8	20689.6	20671.8	19241.7	17091.0	9932.5
52.5°	12154.6	12206.9	13036.7	15401.2	18386.9	21905.9	22550.2	22458.0	20197.2	17542.5	9955.6
55°	9389.9	9471.6	10266.7	12325.3	16297.9	21468.0	23918.4	23835.6	21067.8	17779.3	9928.4
57°	6675.5	6761.4	7551.3	9406.6	13710.3	19952.0	24054.5	24142.5	21538.1	17819.1	9958.7
57.5°	5956.8	6044.8	6827.4	8629.3	12903.6	19404.1	23937.2	24083.9	21623.0	17812.8	9975.5
60°	2999.4	3032.9	3531.5	4817.0	8156.8	15687.2	22406.6	22784.8	21699.5	17504.8	10047.8
62.5°	1864.8	1840.7	1825.0	2218.9	3968.4	10402.9	19248.0	19976.1	20235.9	16758.9	9872.8
65°	1639.5	1594.5	1421.6	1390.2	1752.7	5052.7	14495.0	15401.2	17108.8	15583.4	9455.9
67.5°	1540.0	1496.0	1301.2	1183.8	1184.9	2003.1	8999.1	10019.5	13327.9	13596.1	8472.2
70°	1437.3	1397.5	1215.2	1077.0	1008.9	1109.4	4140.2	4914.4	8688.0	10686.8	7080.9
72.5°	1305.3	1278.1	1105.2	962.8	890.5	830.8	1585.1	1872.1	5029.7	7177.3	4917.6
75°	1167.1	1141.9	994.2	858.0	770.0	653.7	892.6	961.7	2555.2	3671.9	2421.1
77.5°	1015.1	1000.5	884.2	758.5	688.3	541.6	631.7	665.2	1095.8	1574.6	1214.2
80°	807.7	836.0	773.1	675.7	610.8	433.7	447.3	469.3	638.0	769.0	689.3
82.5°	525.9	575.1	605.5	549.0	502.9	341.5	321.6	331.0	415.9	469.3	299.6
85°	219.0	246.2	398.1	359.3	334.2	249.3	215.8	220.0	257.7	267.1	122.6
87.5°	97.4	103.7	175.0	164.5	141.4	85.9	92.2	100.6	137.2	129.9	47.1
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°	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4	6761.4
2.5°	6767.7	6679.7	6528.8	6362.2	6226.0	6117.1	6007.1	5931.7	5843.7	5796.5	5772.4
5°	6772.9	6600.0	6282.6	5956.8	5665.6	5399.5	5145.9	4951.1	4768.8	4670.3	4643.1
7.5°	6794.9	6535.1	6021.8	5485.4	4967.8	4495.4	4130.8	3902.4	3737.9	3664.6	3643.6
10°	6812.7	6458.6	5699.1	4905.0	4201.0	3722.2	3439.4	3311.5	3255.0	3245.5	3236.1
12.5°	6854.6	6380.0	5359.7	4299.5	3604.9	3273.8	3175.4	3167.0	3182.7	3205.7	3205.7
15°	6920.6	6302.5	4972.0	3779.8	3225.6	3109.4	3129.3	3175.4	3218.3	3253.9	3259.2
17.5°	6968.8	6207.2	4555.1	3363.9	3023.4	3054.9	3126.1	3191.1	3235.1	3269.6	3272.8
20°	7003.4	6059.5	4109.8	3046.5	2907.2	3004.6	3093.6	3151.3	3181.6	3216.2	3221.5
22.5°	6985.6	5861.5	3714.9	2819.2	2812.9	2931.3	3016.1	3085.3	3062.2	3028.7	3050.7
25°	6899.7	5589.1	3308.4	2649.4	2713.4	2832.8	2937.5	2891.4	2813.9	2799.3	2807.6
27.5°	6746.7	5241.3	2932.3	2492.3	2598.1	2741.6	2735.4	2689.3	2662.0	2643.2	2654.7
30°	6582.2	4864.1	2603.4	2355.1	2470.3	2588.7	2564.6	2563.5	2536.3	2505.9	2520.6
32.5°	6419.9	4484.9	2342.5	2241.9	2373.9	2389.6	2442.0	2457.7	2404.3	2340.4	2336.2
35°	6278.4	4126.6	2144.5	2139.3	2257.6	2259.7	2336.2	2314.2	2181.2	2115.2	2115.2
37.5°	6172.6	3769.4	1993.6	2047.1	2104.7	2159.2	2197.9	2106.8	2084.8	2048.1	2047.1
40°	6126.5	3455.1	1899.3	1976.9	1996.8	2065.9	1966.4	2002.0	2012.5	1993.6	1993.6
42.5°	6078.3	3181.6	1817.6	1923.4	1920.3	1910.9	1860.6	1906.7	1948.6	1949.6	1946.5
45°	6030.1	2945.9	1745.3	1809.3	1853.3	1751.6	1761.1	1810.3	1869.0	1889.9	1889.9
47.5°	5976.7	2759.4	1679.3	1688.8	1756.9	1688.8	1681.4	1719.2	1788.3	1821.8	1829.2
50°	5859.4	2591.8	1603.9	1583.0	1601.8	1624.9	1631.2	1649.0	1725.4	1778.9	1791.4
52.5°	5697.0	2442.0	1507.5	1485.5	1485.5	1572.5	1601.8	1607.1	1672.0	1735.9	1748.5
55°	5561.8	2346.7	1408.0	1403.8	1399.6	1517.0	1567.2	1575.6	1620.7	1671.0	1677.2
57°	5571.3	2339.3	1331.5	1335.7	1334.7	1460.4	1534.8	1552.6	1575.6	1618.6	1625.9
57.5°	5576.5	2344.6	1314.8	1316.9	1315.8	1444.7	1525.3	1545.2	1563.1	1608.1	1615.4
60°	5655.1	2358.2	1246.7	1223.6	1228.9	1360.9	1471.9	1497.1	1508.6	1568.3	1577.7
62.5°	5538.8	2297.4	1192.2	1136.7	1136.7	1272.9	1397.5	1437.3	1455.2	1535.8	1551.5
65°	5201.5	2126.7	1128.3	1038.2	1048.7	1184.9	1308.5	1373.4	1400.7	1501.2	1518.0
67.5°	4680.8	1928.7	1060.2	950.2	960.7	1092.7	1216.3	1286.5	1329.4	1463.5	1477.2
70°	4003.0	1686.7	968.0	857.0	869.5	992.1	1107.3	1187.0	1250.9	1427.9	1432.1
72.5°	2951.2	1382.9	839.1	754.3	767.9	874.8	997.3	1089.5	1175.4	1338.9	1336.8
75°	1754.8	1081.2	696.7	650.6	660.0	759.5	897.8	1009.9	1138.8	1304.3	1324.2
77.5°	1064.4	814.0	567.8	544.8	556.3	657.9	826.6	946.0	1123.1	1229.9	1223.6
80°	643.2	581.4	453.6	439.0	450.5	562.6	764.8	897.8	981.6	1050.8	1050.8
82.5°	336.3	355.1	333.1	321.6	337.3	456.8	695.6	783.6	867.4	744.9	695.6
85°	137.2	185.4	202.2	201.1	210.6	316.4	600.3	670.5	559.4	531.1	543.7
87.5°	46.1	78.6	98.5	84.9	89.0	199.0	415.9	323.7	384.5	268.2	254.6
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)