

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: P321113

Luminaire Tested: **GAN-SA9A-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321113
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-SA9A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33965 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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: 24 FT



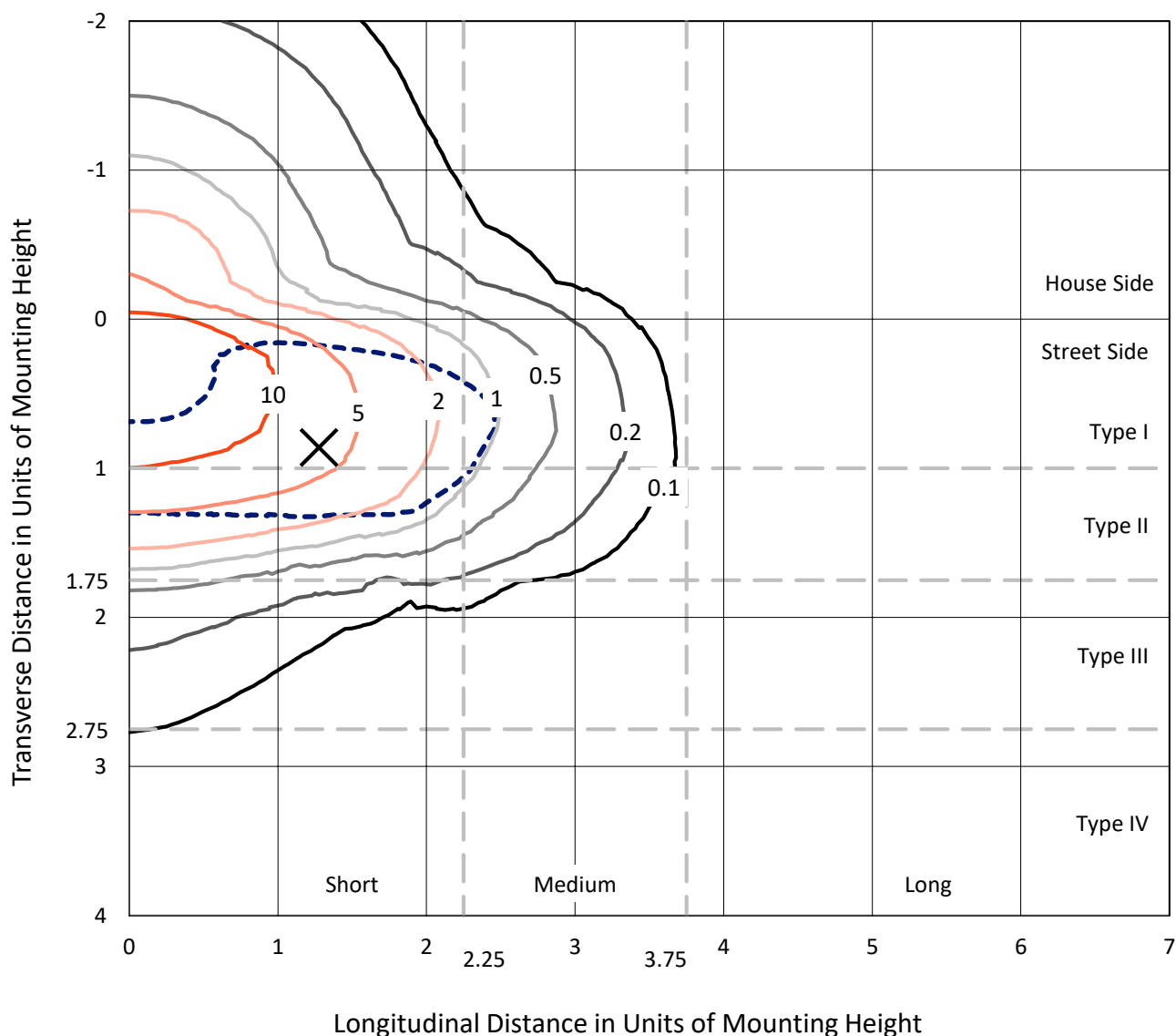
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

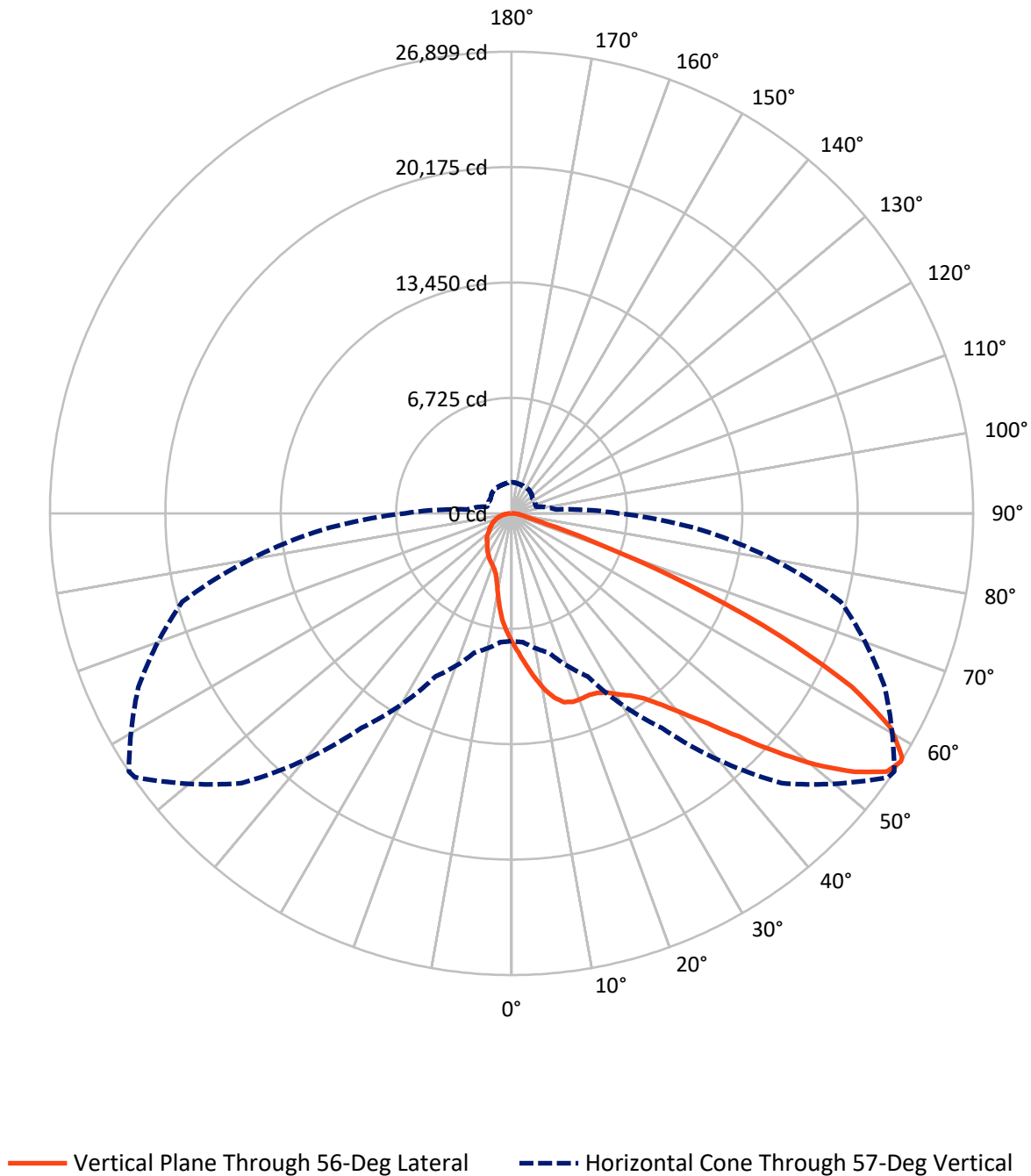


Based on 25 foot mounting height. Maximum calculated value = 16.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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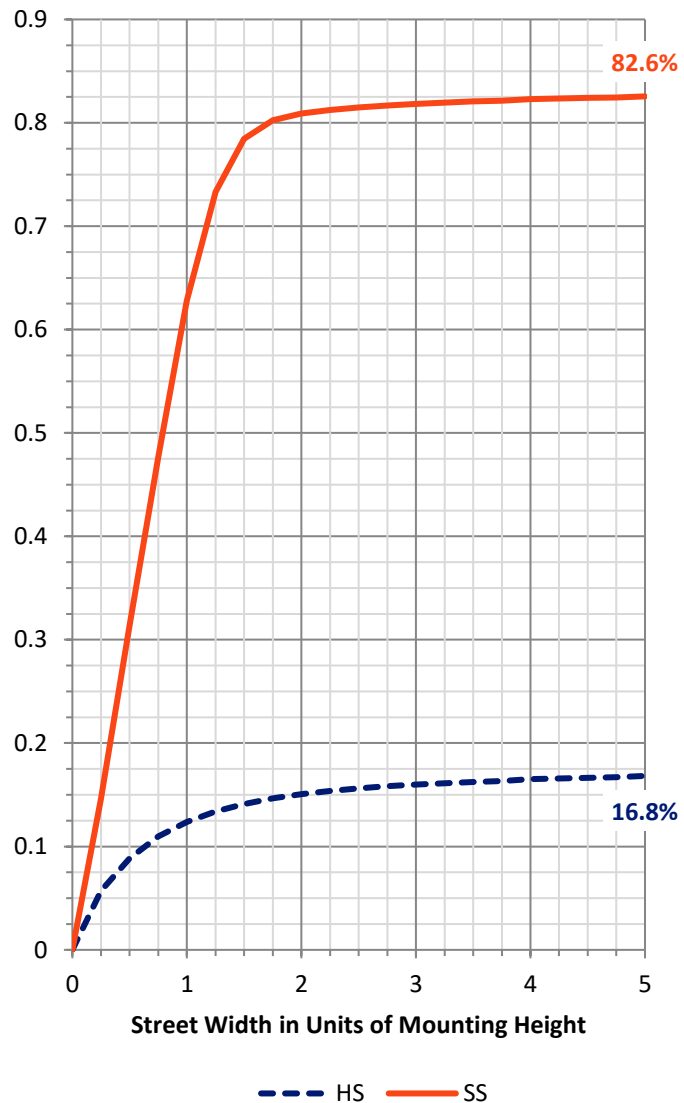
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5854.8	0.0	5854.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	28110.2	0.0	28110.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	33965.0	0.0	33965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.6	2.1
10°-20°	2034.6	6.0
20°-30°	3313.9	9.8
30°-40°	4954.0	14.6
40°-50°	7514.1	22.1
50°-60°	8422.0	24.8
60°-70°	4974.4	14.6
70°-80°	1629.8	4.8
80°-90°	402.7	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°	33965.0	100.0
0°-180°	33965.0	100.0

Coefficient of Utilization



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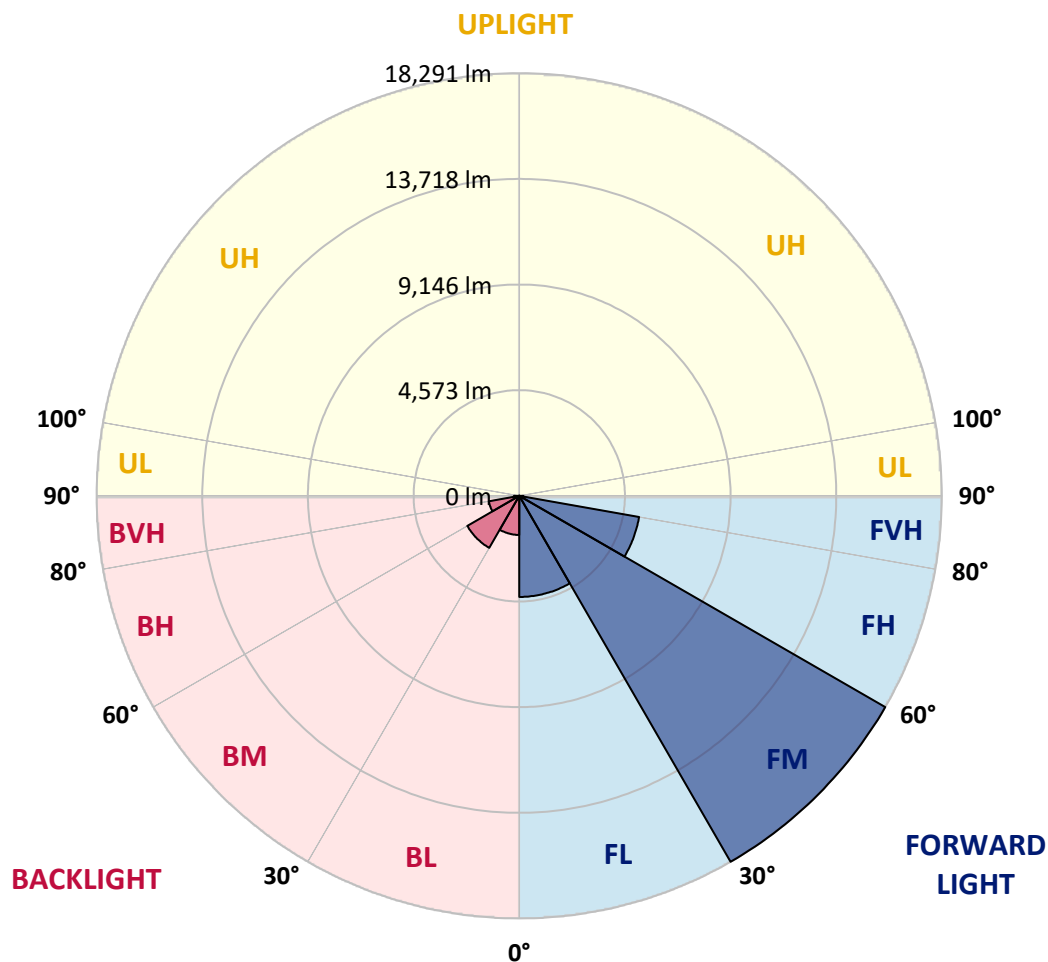
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4375.2	12.9			
FM	(30°-60°)	18291.3	53.9			
FH	(60°-80°)	5266.4	15.5			G3/7500
FVH	(80°-90°)	177.3	0.5			G2/225
BL	(0°-30°)	1692.9	5.0	B3/2500		
BM	(30°-60°)	2598.8	7.7	B3/5000		
BH	(60°-80°)	1337.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	225.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5
2.5°	8650.5	8729.9	8694.9	8573.5	8480.1	8348.2	8201.1	8156.8	8001.5	7827.6	7618.7
5°	10019.7	9980.0	9922.8	9733.7	9534.1	9301.9	8933.0	8874.6	8529.1	8135.8	7720.2
7.5°	10799.4	10795.9	10762.1	10651.2	10469.1	10165.6	9720.9	9652.0	9130.3	8497.6	7853.3
10°	10686.2	10678.1	10734.1	10849.6	10904.5	10841.5	10466.8	10397.9	9757.1	8898.0	8007.4
12.5°	10043.1	10047.7	10137.6	10380.4	10710.7	11107.6	11046.9	11013.1	10407.3	9350.9	8194.1
15°	9542.3	9552.8	9624.0	9835.3	10225.2	10945.4	11399.4	11411.1	11036.4	9850.5	8412.4
17.5°	9322.9	9345.0	9377.7	9526.0	9883.2	10622.0	11483.5	11546.5	11587.3	10368.7	8622.5
20°	9392.9	9413.9	9423.3	9517.8	9810.8	10425.9	11425.1	11538.3	12009.9	10856.6	8832.6
22.5°	9706.9	9719.7	9725.6	9750.1	9977.7	10482.0	11386.6	11505.6	12315.7	11294.4	8991.4
25°	10227.5	10218.2	10180.8	10149.3	10302.2	10703.7	11475.3	11588.5	12564.3	11691.2	9095.3
27.5°	10850.8	10839.1	10766.8	10680.4	10767.9	11049.2	11730.9	11820.8	12787.3	12062.4	9147.8
30°	11599.0	11568.7	11432.1	11329.4	11363.2	11567.5	12152.3	12234.0	13131.6	12483.8	9199.1
32.5°	12464.0	12431.3	12234.0	12063.6	12063.6	12234.0	12586.5	12654.2	13423.4	12960.0	9282.0
35°	13547.2	13506.3	13249.5	12963.5	12883.0	12969.4	13178.3	13226.2	13948.7	13560.0	9432.6
37.5°	14824.1	14769.3	14436.6	14053.8	13877.5	13872.8	14023.4	14121.5	14788.0	14347.9	9688.2
40°	16104.6	16066.1	15775.5	15474.3	15128.8	15017.9	15250.2	15280.5	15885.2	15326.1	10015.1
42.5°	17094.5	17087.5	17033.8	17073.4	16719.8	16495.7	16677.7	16702.3	17225.2	16384.8	10362.9
45°	17617.4	17629.1	17889.4	18466.0	18596.7	18433.3	18523.2	18530.2	18756.6	17452.8	10681.6
47.5°	17198.3	17259.0	17917.4	19207.2	20277.6	20820.3	20670.9	20757.3	20241.4	18370.3	10931.3
50°	15565.4	15640.1	16760.6	18876.9	21062.0	23130.3	23052.1	23032.3	21439.0	19042.6	11066.8
52.5°	13542.5	13600.9	14525.3	17159.8	20486.5	24407.3	25125.2	25022.5	22503.5	19545.7	11092.4
55°	10462.1	10553.2	11439.1	13732.8	18159.0	23919.4	26649.6	26557.4	23473.5	19809.5	11062.1
57°	7437.8	7533.5	8413.6	10480.8	15275.9	22230.4	26801.4	26899.4	23997.6	19853.9	11095.9
57.5°	6637.0	6735.1	7607.0	9614.7	14377.1	21619.9	26670.6	26834.0	24092.2	19846.8	11114.6
60°	3341.9	3379.2	3934.8	5367.0	9088.3	17478.5	24965.3	25386.6	24177.4	19503.7	11195.1
62.5°	2077.7	2050.9	2033.4	2472.2	4421.6	11590.8	21446.0	22257.2	22546.7	18672.6	11000.2
65°	1826.8	1776.6	1584.0	1548.9	1952.8	5629.7	16150.1	17159.8	19062.5	17362.9	10535.6
67.5°	1715.9	1666.8	1449.7	1319.0	1320.2	2231.8	10026.7	11163.6	14849.8	15148.6	9439.6
70°	1601.5	1557.1	1354.0	1199.9	1124.1	1236.1	4613.0	5475.6	9680.1	11907.2	7889.5
72.5°	1454.4	1424.1	1231.5	1072.7	992.2	925.6	1766.1	2085.9	5604.0	7996.9	5479.1
75°	1300.3	1272.3	1107.7	956.0	857.9	728.4	994.5	1071.5	2846.9	4091.2	2697.5
77.5°	1131.1	1114.7	985.2	845.1	766.9	603.5	703.9	741.2	1220.9	1754.4	1352.8
80°	900.0	931.5	861.4	752.9	680.5	483.2	498.4	522.9	710.9	856.8	768.1
82.5°	586.0	640.8	674.7	611.6	560.3	380.5	358.3	368.9	463.4	522.9	333.8
85°	244.0	274.3	443.6	400.4	372.4	277.8	240.5	245.1	287.1	297.7	136.6
87.5°	108.6	115.6	194.9	183.3	157.6	95.7	102.7	112.1	152.9	144.7	52.5
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°	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5	7533.5
2.5°	7540.5	7442.4	7274.3	7088.7	6937.0	6815.6	6693.0	6609.0	6511.0	6458.4	6431.6
5°	7546.3	7353.7	7000.0	6637.0	6312.5	6016.0	5733.6	5516.5	5313.3	5203.6	5173.3
7.5°	7570.8	7281.3	6709.4	6111.8	5535.1	5008.7	4602.5	4348.0	4164.8	4083.1	4059.7
10°	7590.7	7196.1	6349.9	5465.1	4680.7	4147.3	3832.1	3689.7	3626.7	3616.2	3605.7
12.5°	7637.4	7108.6	5971.7	4790.4	4016.5	3647.7	3538.0	3528.6	3546.1	3571.8	3571.8
15°	7710.9	7022.2	5539.8	4211.5	3594.0	3464.4	3486.6	3538.0	3585.8	3625.5	3631.3
17.5°	7764.6	6916.0	5075.2	3748.1	3368.7	3403.7	3483.1	3555.5	3604.5	3643.0	3646.5
20°	7803.1	6751.4	4579.1	3394.4	3239.1	3347.7	3446.9	3511.1	3545.0	3583.5	3589.3
22.5°	7783.3	6530.8	4139.1	3141.1	3134.1	3266.0	3360.5	3437.6	3411.9	3374.5	3399.0
25°	7687.5	6227.3	3686.2	2952.0	3023.2	3156.3	3273.0	3221.6	3135.2	3118.9	3128.2
27.5°	7517.1	5839.8	3267.1	2776.9	2894.8	3054.7	3047.7	2996.3	2966.0	2945.0	2957.8
30°	7333.9	5419.6	2900.6	2624.0	2752.4	2884.3	2857.4	2856.3	2825.9	2792.1	2808.4
32.5°	7152.9	4997.0	2610.0	2497.9	2645.0	2662.5	2720.9	2738.4	2678.9	2607.6	2603.0
35°	6995.4	4597.8	2389.4	2383.5	2515.4	2517.8	2603.0	2578.5	2430.2	2356.7	2356.7
37.5°	6877.5	4199.8	2221.3	2280.8	2345.0	2405.7	2448.9	2347.4	2322.8	2282.0	2280.8
40°	6826.1	3849.6	2116.2	2202.6	2224.8	2301.8	2190.9	2230.6	2242.3	2221.3	2221.3
42.5°	6772.4	3545.0	2025.2	2143.1	2139.6	2129.1	2073.0	2124.4	2171.1	2172.3	2168.8
45°	6718.7	3282.3	1944.6	2015.9	2064.9	1951.7	1962.2	2017.0	2082.4	2105.7	2105.7
47.5°	6659.2	3074.6	1871.1	1881.6	1957.5	1881.6	1873.4	1915.5	1992.5	2029.9	2038.0
50°	6528.5	2887.8	1787.1	1763.7	1784.7	1810.4	1817.4	1837.3	1922.5	1982.0	1996.0
52.5°	6347.5	2720.9	1679.7	1655.2	1655.2	1752.1	1784.7	1790.6	1862.9	1934.1	1948.1
55°	6197.0	2614.7	1568.8	1564.1	1559.5	1690.2	1746.2	1755.6	1805.7	1861.8	1868.8
57°	6207.5	2606.5	1483.6	1488.3	1487.1	1627.2	1710.0	1729.9	1755.6	1803.4	1811.6
57.5°	6213.3	2612.3	1464.9	1467.2	1466.1	1609.6	1699.5	1721.7	1741.5	1791.7	1799.9
60°	6300.8	2627.5	1389.0	1363.4	1369.2	1516.3	1640.0	1668.0	1680.8	1747.4	1757.9
62.5°	6171.3	2559.8	1328.3	1266.5	1266.5	1418.2	1557.1	1601.5	1621.3	1711.2	1728.7
65°	5795.4	2369.5	1257.1	1156.8	1168.4	1320.2	1457.9	1530.3	1560.6	1672.7	1691.4
67.5°	5215.3	2148.9	1181.3	1058.7	1070.4	1217.4	1355.2	1433.4	1481.2	1630.7	1645.8
70°	4460.1	1879.3	1078.5	954.8	968.8	1105.4	1233.8	1322.5	1393.7	1591.0	1595.6
72.5°	3288.2	1540.8	935.0	840.4	855.6	974.7	1111.2	1213.9	1309.7	1491.8	1489.4
75°	1955.2	1204.6	776.2	724.9	735.4	846.3	1000.3	1125.2	1268.8	1453.2	1475.4
77.5°	1185.9	907.0	632.7	607.0	619.8	733.0	921.0	1054.0	1251.3	1370.4	1363.4
80°	716.7	647.8	505.4	489.1	501.9	626.8	852.1	1000.3	1093.7	1170.8	1170.8
82.5°	374.7	395.7	371.2	358.3	375.9	508.9	775.1	873.1	966.5	829.9	775.1
85°	152.9	206.6	225.3	224.1	234.6	352.5	668.8	747.0	623.3	591.8	605.8
87.5°	51.4	87.5	109.7	94.5	99.2	221.8	463.4	360.7	428.4	298.8	283.6
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)