

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: P321120

Luminaire Tested: **GAN-SA6B-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321120
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-SA6B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27863 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249
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

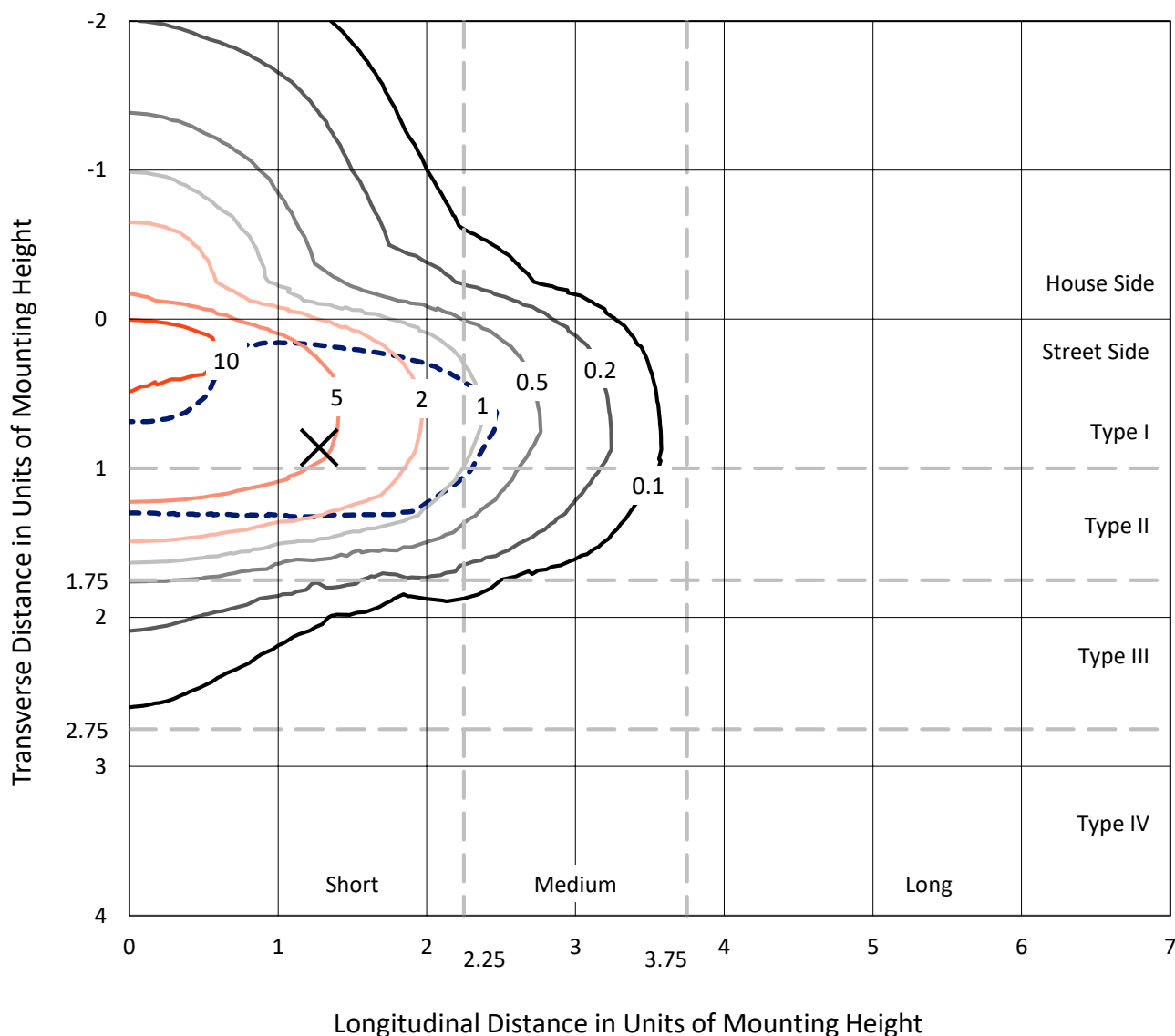


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

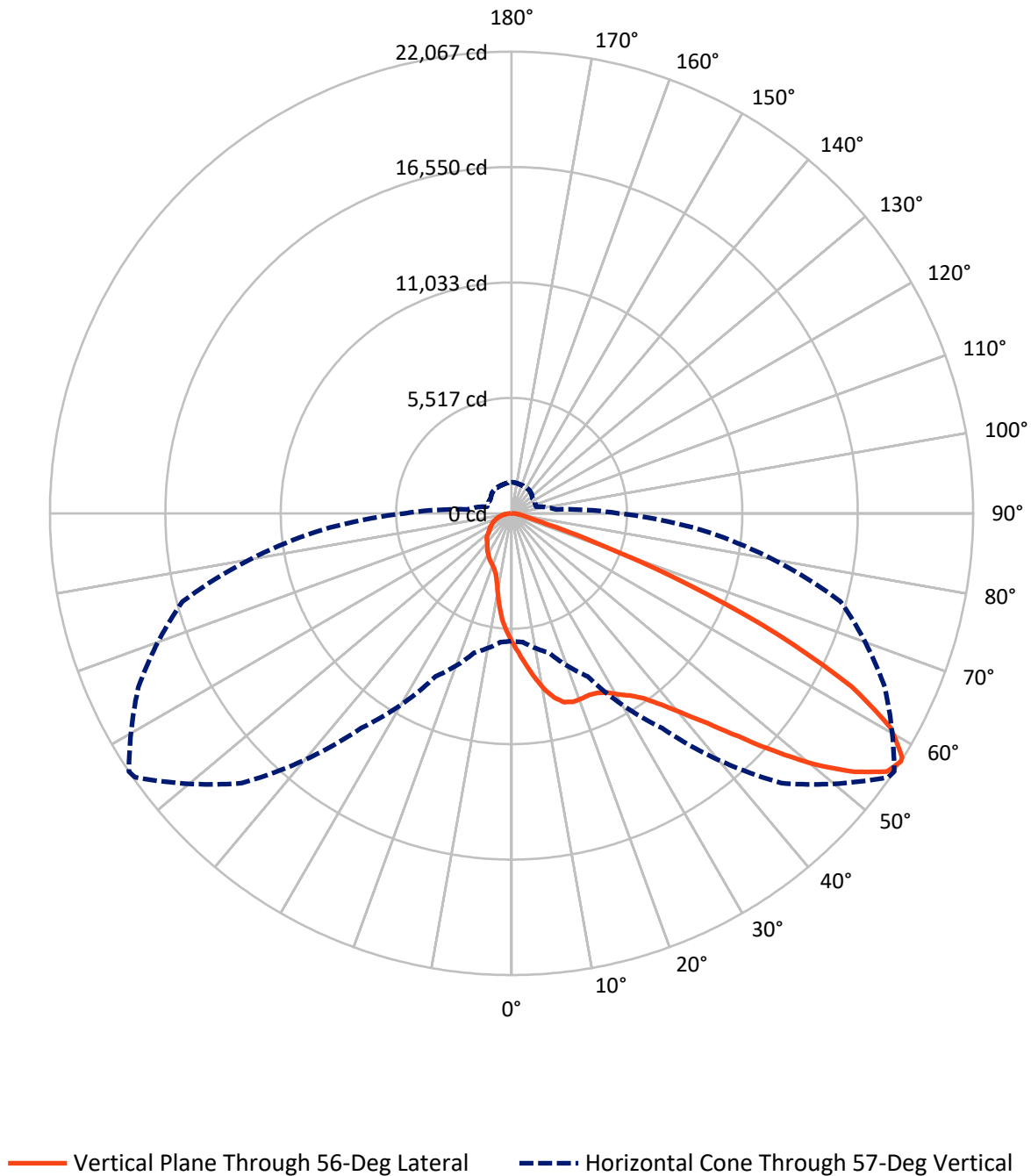
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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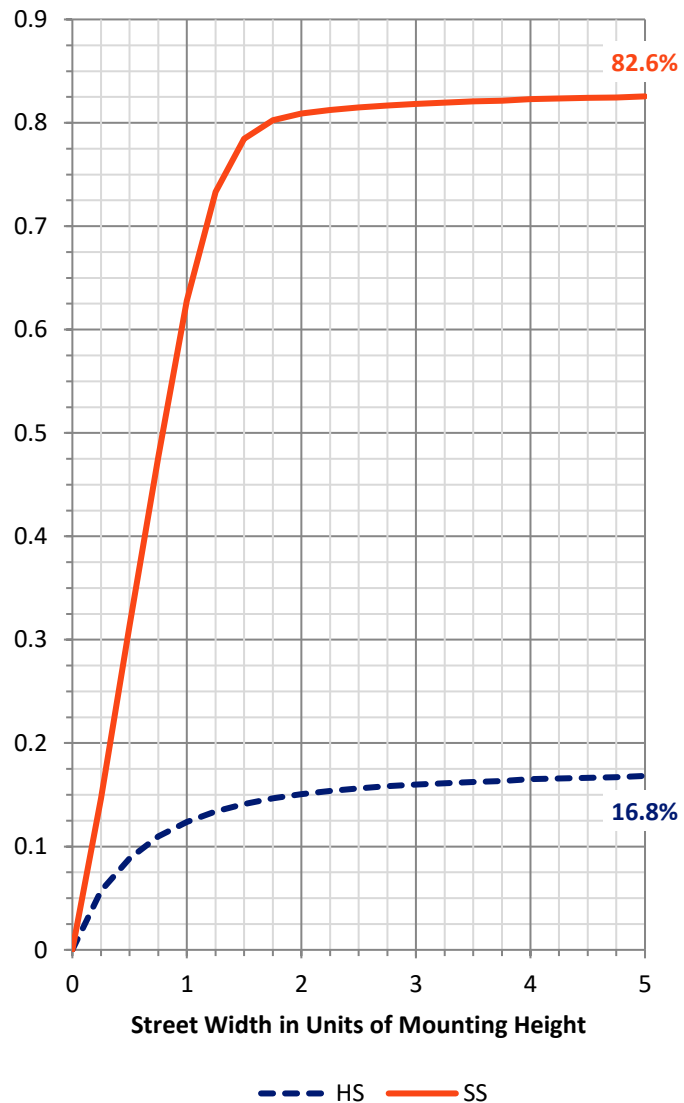
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4803.0	0.0	4803.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	23060.0	0.0	23060.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	27863.0	0.0	27863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.4	2.1
10°-20°	1669.0	6.0
20°-30°	2718.6	9.8
30°-40°	4064.0	14.6
40°-50°	6164.2	22.1
50°-60°	6908.9	24.8
60°-70°	4080.7	14.6
70°-80°	1337.0	4.8
80°-90°	330.3	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°	27863.0	100.0
0°-180°	27863.0	100.0

Coefficient of Utilization



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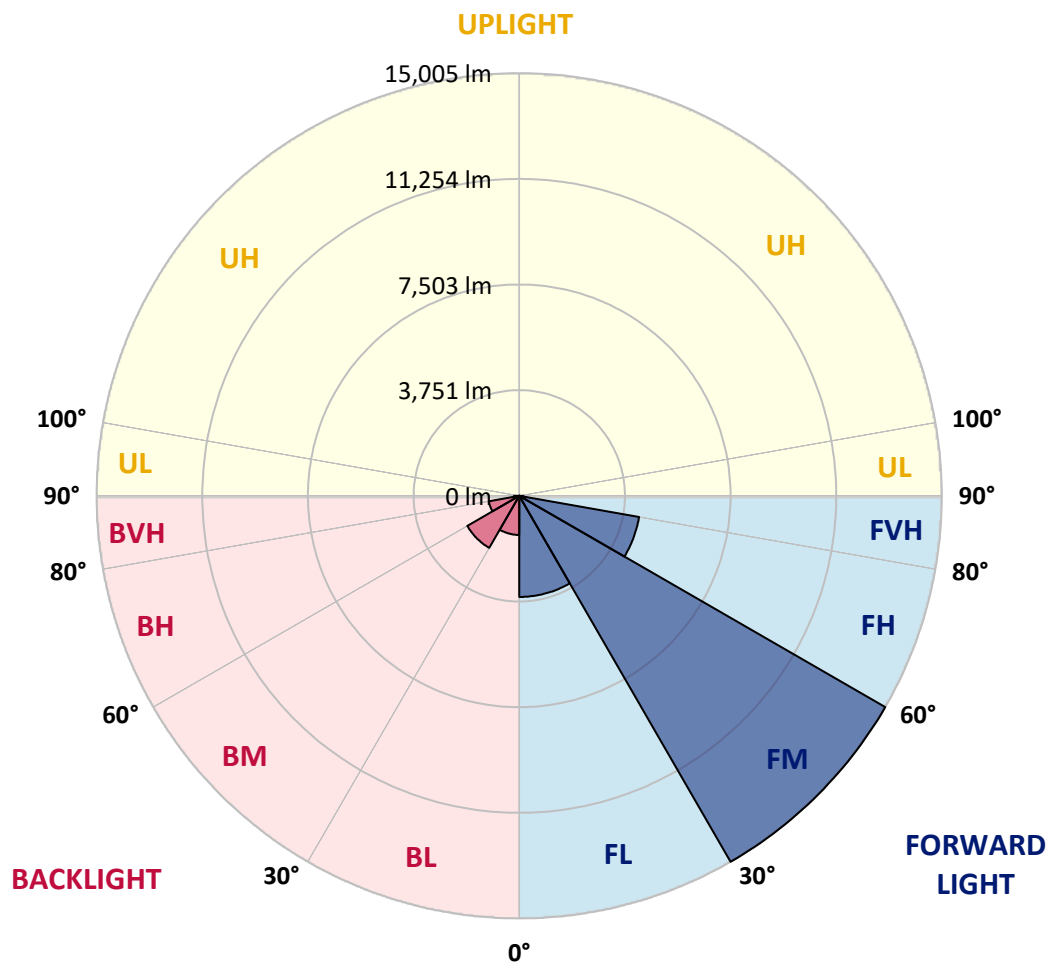
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3589.2	12.9			
FM	(30°-60°)	15005.2	53.9			
FH	(60°-80°)	4320.2	15.5			G2/5000
FVH	(80°-90°)	145.4	0.5			G2/225
BL	(0°-30°)	1388.8	5.0	B3/2500		
BM	(30°-60°)	2131.9	7.7	B2/2500		
BH	(60°-80°)	1097.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	184.9	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°	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0
2.5°	7096.4	7161.5	7132.8	7033.2	6956.6	6848.4	6727.8	6691.4	6564.0	6421.3	6249.9
5°	8219.6	8187.1	8140.1	7985.0	7821.3	7630.7	7328.1	7280.3	6996.8	6674.1	6333.2
7.5°	8859.3	8856.4	8828.6	8737.7	8588.3	8339.3	7974.5	7918.0	7490.0	6971.0	6442.4
10°	8766.4	8759.7	8805.6	8900.4	8945.4	8893.7	8586.4	8529.9	8004.2	7299.4	6568.8
12.5°	8238.8	8242.6	8316.3	8515.5	8786.5	9112.1	9062.3	9034.5	8537.5	7670.9	6722.0
15°	7828.0	7836.6	7895.0	8068.3	8388.2	8979.0	9351.5	9361.0	9053.7	8080.8	6901.1
17.5°	7648.0	7666.2	7693.0	7814.6	8107.6	8713.7	9420.4	9472.1	9505.6	8505.9	7073.4
20°	7705.4	7722.7	7730.3	7807.9	8048.2	8552.9	9372.5	9465.4	9852.2	8906.2	7245.8
22.5°	7963.0	7973.5	7978.3	7998.4	8185.2	8598.8	9340.9	9438.6	10103.1	9265.3	7376.0
25°	8390.1	8382.4	8351.8	8325.9	8451.4	8780.7	9413.7	9506.6	10307.1	9590.8	7461.2
27.5°	8901.4	8891.8	8832.5	8761.6	8833.4	9064.2	9623.4	9697.1	10490.0	9895.3	7504.3
30°	9515.2	9490.3	9378.3	9294.0	9321.8	9489.3	9969.1	10036.1	10772.5	10241.0	7546.5
32.5°	10224.7	10197.9	10036.1	9896.3	9896.3	10036.1	10325.3	10380.8	11011.8	10631.7	7614.5
35°	11113.3	11079.8	10869.2	10634.6	10568.5	10639.4	10810.8	10850.0	11442.7	11123.9	7738.0
37.5°	12160.9	12115.9	11843.0	11528.9	11384.3	11380.5	11504.0	11584.5	12131.2	11770.2	7947.7
40°	13211.3	13179.7	12941.3	12694.3	12410.8	12319.9	12510.4	12535.3	13031.3	12572.7	8215.8
42.5°	14023.3	14017.6	13973.6	14006.1	13716.0	13532.1	13681.5	13701.6	14130.6	13441.2	8501.1
45°	14452.3	14461.9	14675.4	15148.5	15255.7	15121.7	15195.4	15201.1	15386.9	14317.3	8762.6
47.5°	14108.6	14158.4	14698.4	15756.5	16634.6	17079.8	16957.3	17028.1	16604.9	15069.9	8967.5
50°	12769.0	12830.2	13749.5	15485.5	17278.1	18974.8	18910.7	18894.4	17587.4	15621.5	9078.5
52.5°	11109.5	11157.4	11915.8	14077.0	16806.0	20022.4	20611.3	20527.0	18460.6	16034.2	9099.6
55°	8582.5	8657.2	9384.0	11265.6	14896.6	19622.1	21861.9	21786.2	19256.4	16250.6	9074.7
57°	6101.5	6180.0	6902.0	8597.9	12531.5	18236.6	21986.3	22066.8	19686.3	16287.0	9102.5
57.5°	5444.6	5525.1	6240.4	7887.4	11794.2	17735.8	21879.1	22013.2	19763.9	16281.3	9117.8
60°	2741.5	2772.1	3227.9	4402.8	7455.5	14338.4	20480.1	20825.8	19833.8	15999.7	9183.9
62.5°	1704.4	1682.4	1668.1	2028.1	3627.2	9508.5	17593.1	18258.6	18496.1	15318.0	9024.0
65°	1498.6	1457.4	1299.4	1270.7	1602.0	4618.3	13248.7	14077.0	15637.8	14243.6	8642.9
67.5°	1407.6	1367.4	1189.3	1082.0	1083.0	1830.8	8225.4	9158.0	12182.0	12427.1	7743.7
70°	1313.8	1277.4	1110.8	984.4	922.1	1014.0	3784.2	4491.9	7941.0	9768.0	6472.1
72.5°	1193.1	1168.2	1010.2	880.0	813.9	759.3	1448.8	1711.1	4597.2	6560.2	4494.7
75°	1066.7	1043.7	908.7	784.2	703.8	597.5	815.8	879.0	2335.5	3356.2	2212.9
77.5°	927.9	914.5	808.2	693.3	629.1	495.1	577.4	608.0	1001.6	1439.2	1109.8
80°	738.3	764.1	706.7	617.6	558.3	396.4	408.9	429.0	583.1	702.8	630.1
82.5°	480.7	525.7	553.5	501.8	459.6	312.2	294.0	302.6	380.1	429.0	273.9
85°	200.1	225.0	363.9	328.4	305.5	227.9	197.3	201.1	235.6	244.2	112.0
87.5°	89.1	94.8	159.9	150.3	129.3	78.5	84.3	91.9	125.4	118.7	43.1
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°	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0	6180.0
2.5°	6185.8	6105.3	5967.5	5815.2	5690.7	5591.1	5490.6	5421.7	5341.2	5298.1	5276.1
5°	6190.6	6032.6	5742.4	5444.6	5178.4	4935.2	4703.5	4525.4	4358.8	4268.8	4243.9
7.5°	6210.7	5973.2	5504.0	5013.7	4540.7	4108.9	3775.6	3566.9	3416.5	3349.5	3330.4
10°	6227.0	5903.3	5209.1	4483.3	3839.8	3402.2	3143.6	3026.8	2975.1	2966.5	2957.9
12.5°	6265.3	5831.5	4898.8	3929.8	3294.9	2992.3	2902.3	2894.7	2909.0	2930.1	2930.1
15°	6325.6	5760.6	4544.5	3454.8	2948.3	2842.0	2860.2	2902.3	2941.6	2974.2	2978.9
17.5°	6369.6	5673.5	4163.4	3074.7	2763.5	2792.2	2857.3	2916.7	2956.9	2988.5	2991.4
20°	6401.2	5538.5	3756.5	2784.6	2657.2	2746.3	2827.7	2880.3	2908.1	2939.7	2944.5
22.5°	6385.0	5357.5	3395.5	2576.8	2571.0	2679.2	2756.8	2820.0	2798.9	2768.3	2788.4
25°	6306.4	5108.5	3023.9	2421.6	2480.1	2589.2	2685.0	2642.8	2572.0	2558.6	2566.2
27.5°	6166.6	4790.6	2680.2	2278.0	2374.7	2505.9	2500.2	2458.0	2433.1	2415.9	2426.4
30°	6016.3	4445.9	2379.5	2152.6	2257.9	2366.1	2344.1	2343.1	2318.2	2290.5	2303.9
32.5°	5867.9	4099.3	2141.1	2049.2	2169.8	2184.2	2232.1	2246.4	2197.6	2139.2	2135.3
35°	5738.6	3771.8	1960.1	1955.3	2063.5	2065.4	2135.3	2115.2	1993.6	1933.3	1933.3
37.5°	5641.9	3445.3	1822.2	1871.1	1923.7	1973.5	2008.9	1925.6	1905.5	1872.0	1871.1
40°	5599.8	3158.0	1736.0	1806.9	1825.1	1888.3	1797.3	1829.9	1839.5	1822.2	1822.2
42.5°	5555.7	2908.1	1661.4	1758.1	1755.2	1746.6	1700.6	1742.7	1781.0	1782.0	1779.1
45°	5511.7	2692.6	1595.3	1653.7	1693.9	1601.0	1609.6	1654.6	1708.3	1727.4	1727.4
47.5°	5462.8	2522.2	1535.0	1543.6	1605.8	1543.6	1536.9	1571.3	1634.5	1665.2	1671.9
50°	5355.6	2369.0	1466.0	1446.9	1464.1	1485.2	1490.9	1507.2	1577.1	1625.9	1637.4
52.5°	5207.2	2232.1	1377.9	1357.8	1357.8	1437.3	1464.1	1468.9	1528.3	1586.7	1598.2
55°	5083.6	2144.9	1286.9	1283.1	1279.3	1386.5	1432.5	1440.2	1481.3	1527.3	1533.0
57°	5092.3	2138.2	1217.0	1220.9	1219.9	1334.8	1402.8	1419.1	1440.2	1479.4	1486.1
57.5°	5097.0	2143.0	1201.7	1203.6	1202.7	1320.5	1394.2	1412.4	1428.7	1469.8	1476.5
60°	5168.9	2155.4	1139.5	1118.4	1123.2	1243.9	1345.4	1368.3	1378.9	1433.5	1442.1
62.5°	5062.6	2099.9	1089.7	1038.9	1038.9	1163.4	1277.4	1313.8	1330.0	1403.8	1418.1
65°	4754.2	1943.8	1031.3	948.9	958.5	1083.0	1196.0	1255.4	1280.2	1372.2	1387.5
67.5°	4278.3	1762.9	969.0	868.5	878.1	998.7	1111.7	1175.9	1215.1	1337.7	1350.1
70°	3658.8	1541.7	884.8	783.3	794.8	906.8	1012.1	1084.9	1143.3	1305.1	1309.0
72.5°	2697.4	1264.0	767.0	689.4	701.9	799.6	911.6	995.9	1074.4	1223.8	1221.8
75°	1603.9	988.2	636.8	594.6	603.3	694.2	820.6	923.1	1040.9	1192.2	1210.3
77.5°	972.9	744.0	519.0	497.9	508.5	601.3	755.5	864.7	1026.5	1124.2	1118.4
80°	587.9	531.4	414.6	401.2	411.7	514.2	699.0	820.6	897.2	960.4	960.4
82.5°	307.4	324.6	304.5	294.0	308.3	417.5	635.8	716.2	792.9	680.8	635.8
85°	125.4	169.5	184.8	183.8	192.5	289.2	548.7	612.8	511.3	485.5	497.0
87.5°	42.1	71.8	90.0	77.6	81.4	181.9	380.1	295.9	351.4	245.1	232.7
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)