

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: P319434

Luminaire Tested: **GAN-SA0A-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45187 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 323
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

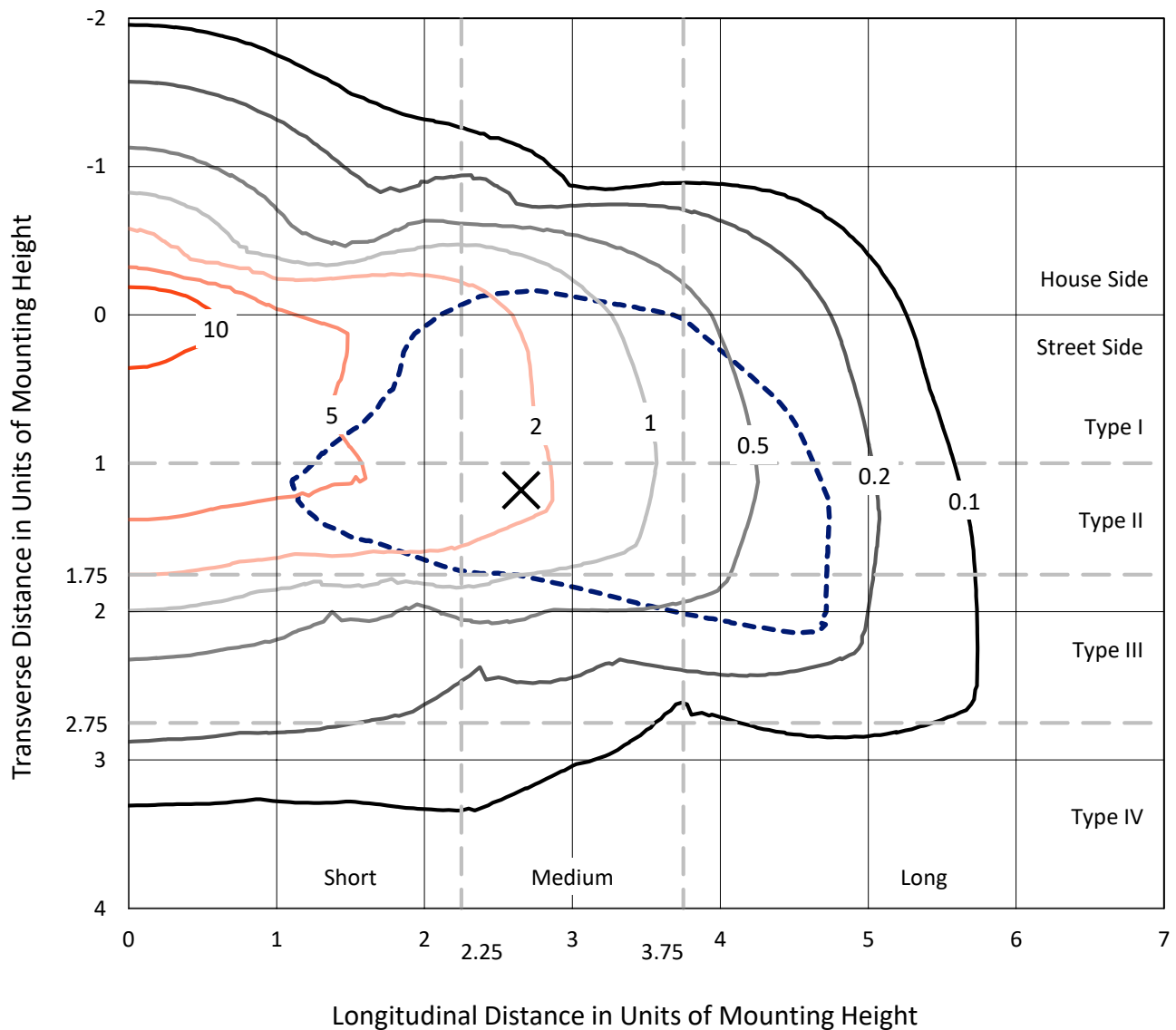


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Iso-Footcandle Lines of Horizontal Illumination

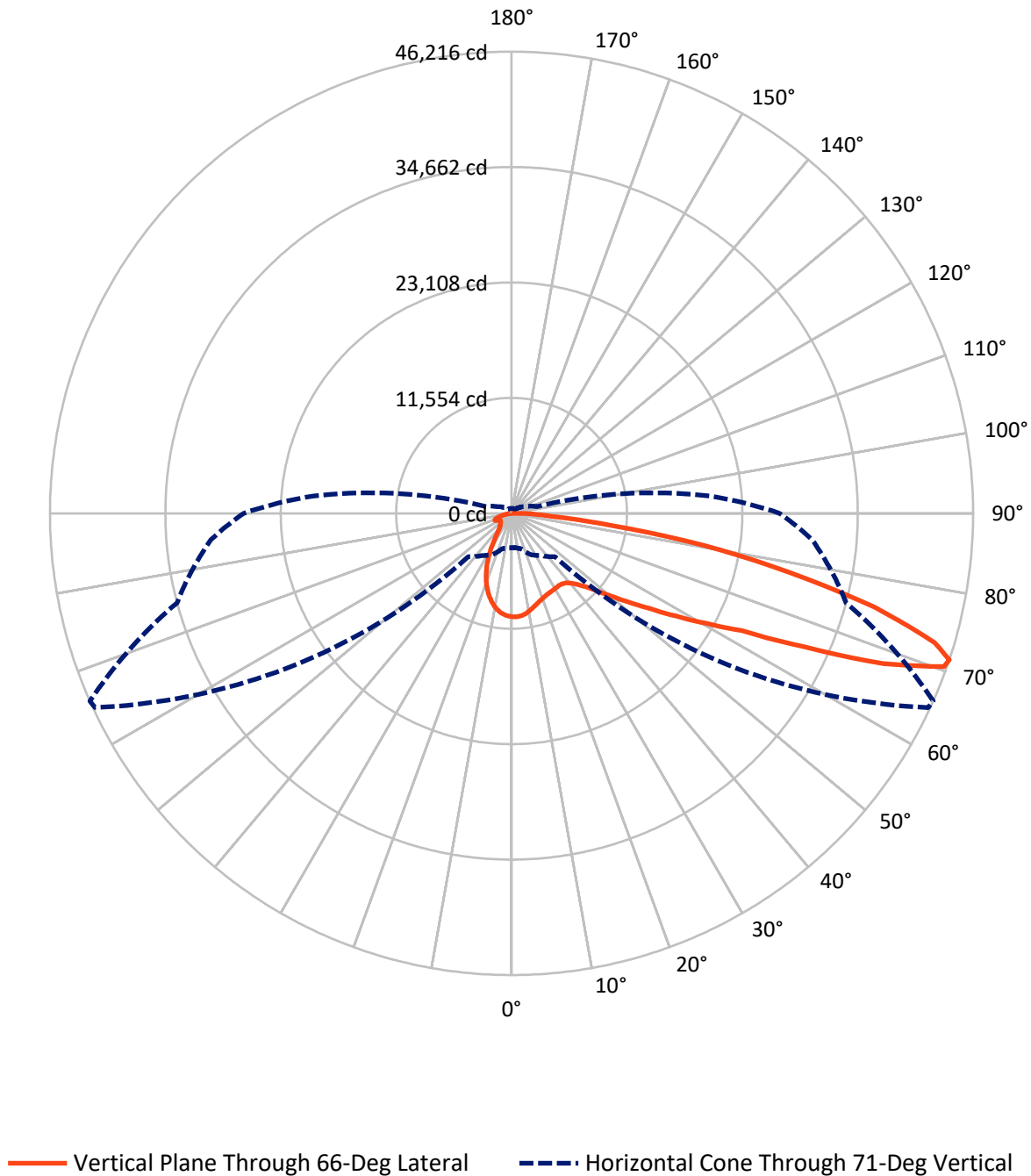
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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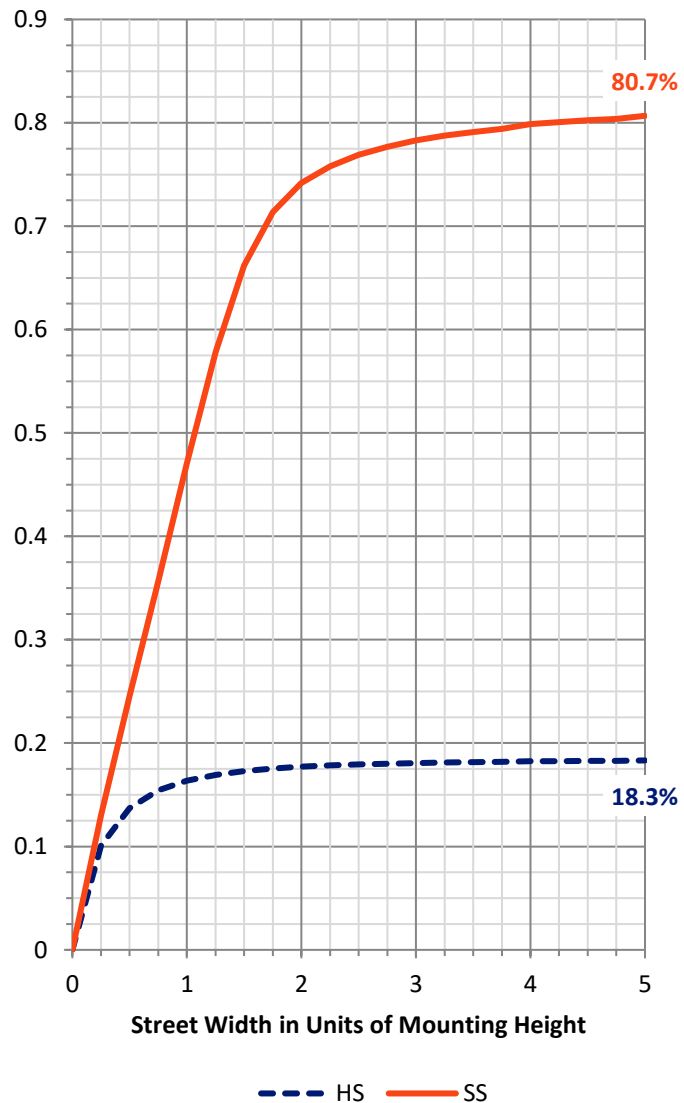
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8374.4	0.0	8374.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	36812.6	0.0	36812.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	45187.0	0.0	45187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.2	2.0
10°-20°	2185.4	4.8
20°-30°	2935.5	6.5
30°-40°	3861.6	8.5
40°-50°	5617.7	12.4
50°-60°	8775.4	19.4
60°-70°	10992.6	24.3
70°-80°	8384.9	18.6
80°-90°	1522.6	3.4
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°	45187.0	100.0
0°-180°	45187.0	100.0

Coefficient of Utilization



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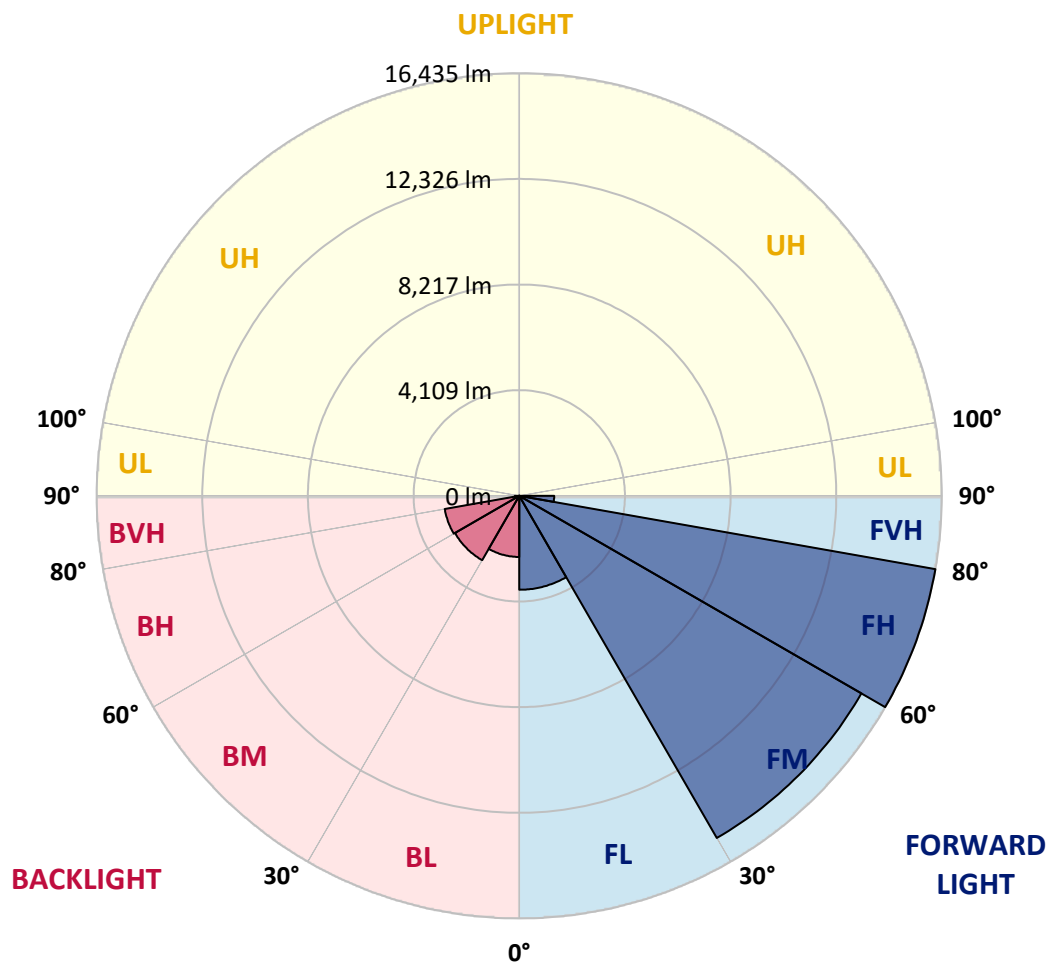
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3654.0	8.1			
FM	(30°-60°)	15365.8	34.0			
FH	(60°-80°)	16435.0	36.4			G5
FVH	(80°-90°)	1357.8	3.0			G5
BL	(0°-30°)	2378.1	5.3	B3/2500		
BM	(30°-60°)	2888.9	6.4	B3/5000		
BH	(60°-80°)	2942.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	164.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5
2.5°	10159.6	10144.0	10190.8	10239.1	10257.9	10289.1	10335.9	10362.4	10360.8	10365.5	10349.9
5°	9485.6	9465.3	9558.9	9635.4	9782.0	9947.4	10148.6	10292.2	10295.3	10376.4	10398.3
7.5°	8847.5	8833.5	8941.1	9064.4	9234.4	9487.2	9813.2	10122.1	10140.8	10360.8	10437.3
10°	8335.8	8332.7	8437.2	8571.4	8769.5	9051.9	9426.3	9878.7	9906.8	10285.9	10443.5
12.5°	7936.4	7942.6	8033.1	8186.0	8395.1	8689.9	9095.6	9605.7	9651.0	10167.4	10407.6
15°	7641.5	7666.5	7739.8	7894.3	8100.2	8399.7	8816.3	9353.0	9421.6	10034.8	10387.3
17.5°	7473.0	7501.1	7552.6	7680.5	7874.0	8162.6	8557.3	9145.5	9207.9	9933.4	10388.9
20°	7423.1	7446.5	7476.1	7554.2	7718.0	7980.1	8352.9	8958.3	9025.4	9852.2	10404.5
22.5°	7521.4	7538.6	7541.7	7535.4	7635.3	7849.0	8204.7	8821.0	8892.7	9799.2	10415.4
25°	7732.0	7755.4	7738.2	7680.5	7647.8	7778.8	8128.3	8730.5	8802.3	9760.2	10393.6
27.5°	8048.7	8051.8	8037.8	7962.9	7808.5	7786.6	8104.9	8677.4	8746.1	9714.9	10348.3
30°	8479.3	8499.6	8474.6	8373.2	8120.5	7911.4	8133.0	8626.0	8688.4	9657.2	10275.0
32.5°	8983.2	9033.2	9031.6	8925.5	8563.6	8190.7	8248.4	8594.8	8643.1	9596.4	10186.1
35°	9505.9	9574.5	9702.5	9657.2	9209.5	8632.2	8469.9	8644.7	8677.4	9588.6	10123.7
37.5°	10048.8	10117.4	10381.1	10502.8	9978.6	9264.1	8819.4	8821.0	8836.6	9683.7	10119.0
40°	10616.7	10690.0	11086.3	11403.0	10975.5	10064.4	9382.6	9189.2	9172.0	9917.8	10211.1
42.5°	11412.4	11477.9	11953.7	12357.8	12081.7	11089.4	10161.1	9757.1	9721.2	10376.4	10505.9
45°	12418.6	12474.8	12980.3	13412.4	13270.5	12259.5	11139.3	10538.7	10532.4	11140.9	11103.4
47.5°	13615.3	13658.9	14112.9	14531.1	14582.5	13605.9	12368.7	11744.7	11643.3	12189.3	12028.6
50°	14861.8	14910.2	15219.1	15668.4	16050.6	15407.9	13950.7	13222.1	13086.4	13573.1	13339.1
52.5°	15687.1	15751.1	16019.4	16588.9	17701.2	17383.0	15821.3	15013.1	14807.2	15250.3	15070.9
55°	15318.9	15462.5	15872.8	16785.4	19021.1	20400.3	18128.7	17102.2	16869.7	17237.9	17131.8
57.5°	13644.9	13841.5	14401.6	15810.4	19206.8	23058.7	21617.2	19562.5	19398.7	19292.6	19340.9
60°	10585.5	10774.3	11468.5	13304.8	17913.4	24999.5	26867.0	22595.4	22358.2	21355.1	21398.8
62.5°	7491.7	7396.6	7872.4	9215.7	14556.0	25227.3	32840.8	26651.7	25871.6	23533.0	23341.1
65°	5713.2	5691.4	5905.1	6332.6	8816.3	22501.8	36399.4	33469.5	32251.0	26094.7	25642.3
67.5°	4694.4	4655.4	4866.0	5488.5	5677.3	14517.0	36477.4	41379.3	40182.7	29283.7	28303.9
70°	3859.8	3816.1	4012.7	4816.1	5246.7	7362.3	30700.3	46011.4	45947.4	33321.3	30313.3
71°	3460.4	3429.2	3664.7	4557.1	5154.7	6136.0	26506.6	46023.9	46215.8	34687.9	30194.8
72.5°	2817.6	2828.5	3078.1	4056.3	5086.0	5418.3	19481.4	43878.7	44284.3	35990.7	29116.7
75°	1872.2	1881.5	2209.1	3120.3	4931.6	5301.3	10707.2	36819.1	37564.8	35210.6	26569.0
77.5°	1257.5	1254.3	1477.4	2140.5	4296.6	5301.3	6278.0	27537.9	28356.9	28016.8	20483.0
80°	865.9	859.6	1017.2	1477.4	3252.9	5365.3	4853.6	19298.8	19546.9	15130.1	8324.9
82.5°	530.4	535.1	664.6	1043.7	2213.8	4828.6	4582.1	10523.1	10253.2	4243.6	2079.7
85°	304.2	302.7	424.4	706.7	1421.3	4075.1	4468.2	4529.1	4154.6	1277.7	752.0
87.5°	109.2	117.0	227.8	391.6	814.4	2837.9	3791.1	2355.8	2123.3	577.2	340.1
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°	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5	10351.5
2.5°	10339.0	10348.3	10337.4	10275.0	10222.0	10136.2	10087.8	10020.7	10000.4	9991.1	10016.0
5°	10378.0	10381.1	10289.1	10125.2	9941.2	9724.3	9568.3	9376.4	9285.9	9246.9	9271.9
7.5°	10413.9	10399.8	10198.6	9885.0	9544.9	9167.3	8831.9	8524.6	8345.1	8271.8	8278.1
10°	10418.6	10359.3	10036.3	9551.1	9023.8	8469.9	7955.1	7480.8	7181.3	6986.3	7045.6
12.5°	10370.2	10270.3	9797.6	9119.0	8387.3	7632.2	6936.3	6224.9	5797.4	5599.3	5605.5
15°	10332.7	10151.8	9504.3	8610.4	7627.5	6627.4	5677.3	4841.1	4385.5	4182.7	4087.5
17.5°	10301.5	10023.8	9164.2	8037.8	6730.4	5462.0	4320.0	3574.3	3324.6	3265.4	3240.4
20°	10257.9	9888.1	8785.1	7374.7	5708.5	4157.7	3154.6	2786.4	2788.0	2856.6	2866.0
22.5°	10197.0	9733.7	8381.0	6630.6	4611.7	3028.2	2472.8	2366.7	2474.4	2605.4	2628.8
25°	10106.5	9551.1	7931.7	5808.4	3516.5	2327.7	2112.4	2107.7	2238.8	2376.1	2396.4
27.5°	9978.6	9312.4	7432.5	4925.3	2591.4	1978.2	1892.4	1925.2	2021.9	2121.8	2129.6
30°	9807.0	9034.7	6881.7	3993.9	2031.3	1761.4	1752.0	1781.7	1841.0	1911.2	1917.4
32.5°	9618.2	8752.3	6293.6	3092.2	1739.5	1644.4	1653.7	1667.8	1695.9	1723.9	1730.2
35°	9446.6	8463.7	5691.4	2349.6	1600.7	1567.9	1561.7	1558.6	1561.7	1552.3	1553.9
37.5°	9335.8	8225.0	5064.2	1870.6	1521.1	1500.8	1482.1	1458.7	1432.2	1416.6	1419.7
40°	9295.3	8047.2	4429.2	1616.3	1455.6	1441.6	1405.7	1355.8	1324.6	1315.2	1315.2
42.5°	9404.5	7955.1	3816.1	1488.4	1401.0	1377.6	1318.3	1260.6	1237.2	1235.6	1234.1
45°	9738.3	7992.5	3232.6	1418.2	1351.1	1305.8	1227.8	1179.5	1163.9	1167.0	1165.4
47.5°	10337.4	8228.1	2733.3	1371.4	1301.1	1241.9	1154.5	1115.5	1096.8	1096.8	1098.3
50°	11356.2	8778.9	2335.5	1332.4	1259.0	1182.6	1101.5	1053.1	1028.1	1026.6	1026.6
52.5°	12839.9	9764.9	2087.5	1299.6	1212.2	1129.5	1048.4	987.6	957.9	951.7	948.6
55°	14699.6	11178.3	2018.8	1277.7	1149.8	1071.8	984.4	923.6	890.8	876.8	875.2
57.5°	16779.2	12897.6	2154.5	1251.2	1085.9	1003.2	914.2	856.5	822.2	805.0	803.5
60°	18883.8	14774.4	2708.4	1213.8	1032.8	928.3	842.5	789.4	755.1	736.4	733.3
62.5°	20991.6	16752.7	3839.5	1210.7	995.4	856.5	769.1	723.9	691.1	670.9	666.2
65°	23369.2	18918.1	5125.0	1293.3	982.9	791.0	694.3	658.4	630.3	611.6	610.0
67.5°	26099.4	21362.9	5001.8	1463.4	1025.0	731.7	624.1	596.0	575.7	560.1	558.5
70°	27380.3	20980.6	3109.3	1583.5	1084.3	674.0	557.0	536.7	521.1	510.2	505.5
71°	26843.6	19921.3	2607.0	1569.5	1078.1	649.0	530.4	514.8	499.2	489.9	485.2
72.5°	25380.2	18167.7	2174.8	1460.3	1007.8	603.8	496.1	480.5	466.5	455.6	452.4
75°	22774.8	16225.4	1741.1	1167.0	803.5	510.2	435.3	418.1	407.2	401.0	394.7
77.5°	16741.8	11579.3	1346.4	922.0	591.3	416.6	371.3	358.8	347.9	338.5	333.9
80°	6413.7	4485.4	906.4	688.0	433.7	329.2	299.5	293.3	282.4	276.1	276.1
82.5°	1727.1	1340.2	483.6	416.6	290.2	240.3	229.3	226.2	216.9	204.4	205.9
85°	698.9	591.3	271.5	229.3	177.9	142.0	154.5	156.0	145.1	129.5	131.1
87.5°	307.3	251.2	151.3	101.4	78.0	54.6	70.2	70.2	64.0	53.0	48.4
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)