

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: P321031

Luminaire Tested: **GAN-SA7A-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321031
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-SA7A-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33817 lumens
Efficiency: N/A
Efficacy: 149.6 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): 226
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

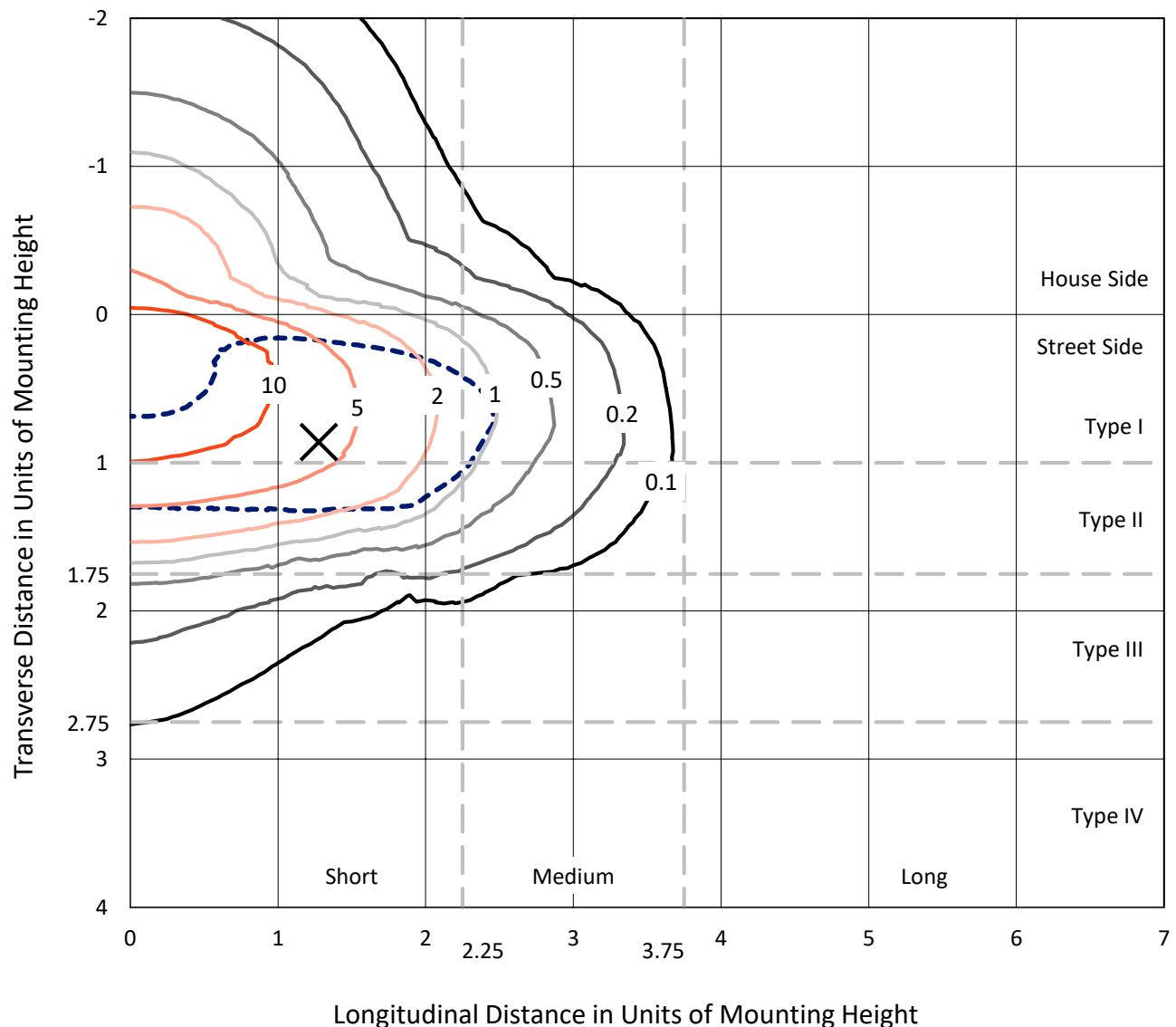


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Iso-Footcandle Lines of Horizontal Illumination

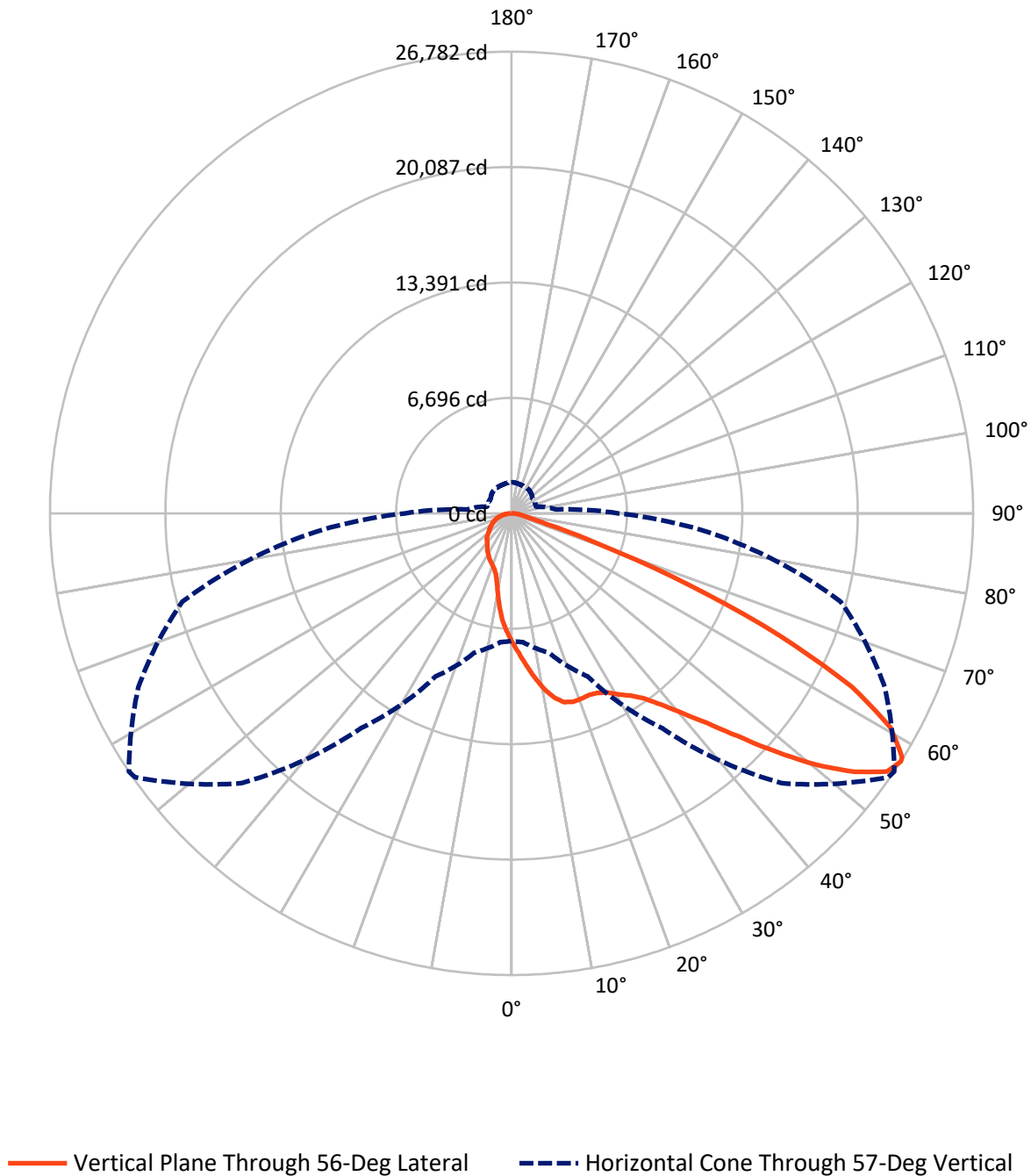
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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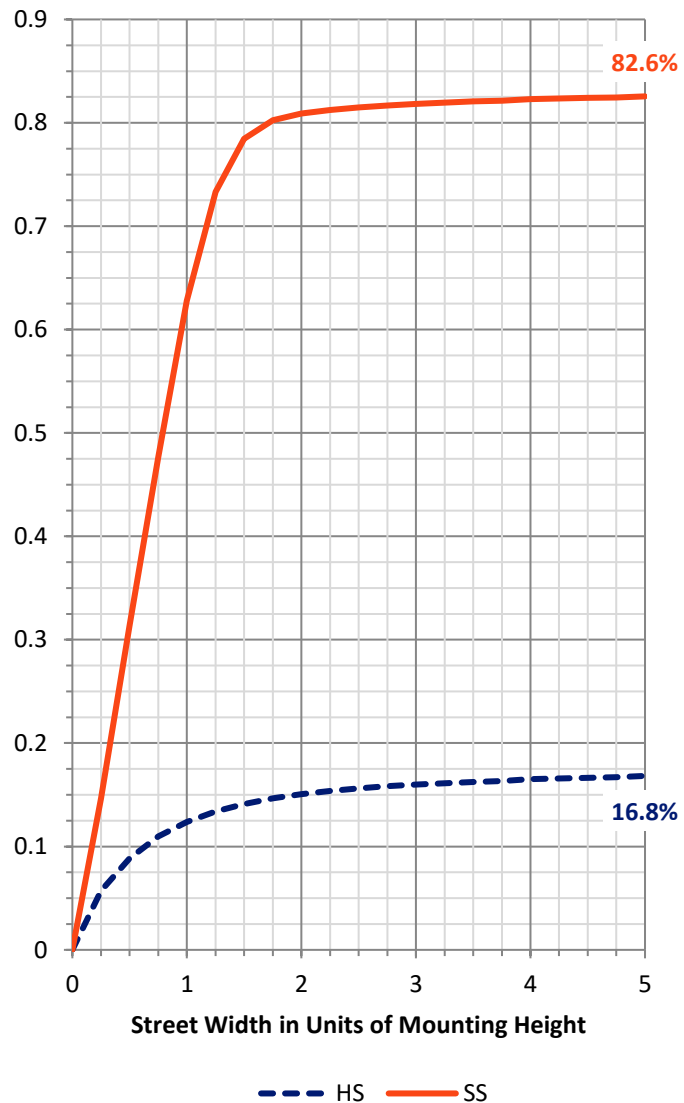
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5829.3	0.0	5829.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	27987.7	0.0	27987.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	33817.0	0.0	33817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.5	2.1
10°-20°	2025.7	6.0
20°-30°	3299.5	9.8
30°-40°	4932.4	14.6
40°-50°	7481.4	22.1
50°-60°	8385.3	24.8
60°-70°	4952.7	14.6
70°-80°	1622.7	4.8
80°-90°	400.9	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°	33817.0	100.0
0°-180°	33817.0	100.0

Coefficient of Utilization



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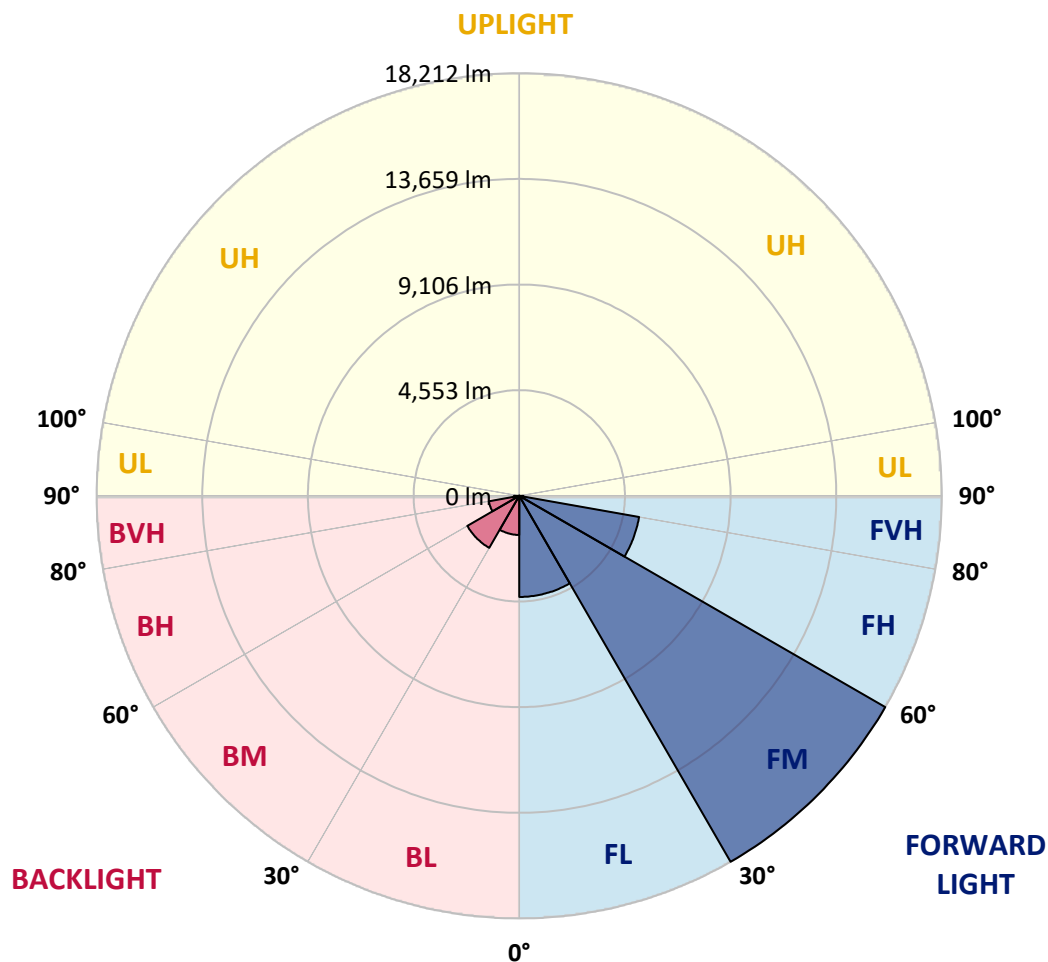
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4356.1	12.9			
FM	(30°-60°)	18211.6	53.9			
FH	(60°-80°)	5243.4	15.5			G3/7500
FVH	(80°-90°)	176.5	0.5			G2/225
BL	(0°-30°)	1685.6	5.0	B3/2500		
BM	(30°-60°)	2587.4	7.7	B3/5000		
BH	(60°-80°)	1331.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	224.4	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°	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6
2.5°	8612.8	8691.9	8657.0	8536.1	8443.2	8311.8	8165.4	8121.2	7966.7	7793.5	7585.5
5°	9976.1	9936.5	9879.6	9691.3	9492.6	9261.3	8894.1	8836.0	8492.0	8100.3	7686.6
7.5°	10752.4	10748.9	10715.2	10604.8	10423.5	10121.3	9678.5	9610.0	9090.5	8460.6	7819.1
10°	10639.7	10631.5	10687.3	10802.4	10857.0	10794.2	10421.2	10352.6	9714.6	8859.2	7972.5
12.5°	9999.3	10004.0	10093.4	10335.2	10664.1	11059.2	10998.8	10965.1	10361.9	9310.1	8158.4
15°	9500.7	9511.2	9582.1	9792.4	10180.6	10897.7	11349.7	11361.4	10988.3	9807.5	8375.8
17.5°	9282.2	9304.3	9336.9	9484.5	9840.1	10575.7	11433.4	11496.2	11536.9	10323.6	8584.9
20°	9352.0	9372.9	9382.2	9476.3	9768.0	10380.5	11375.3	11488.0	11957.6	10809.3	8794.1
22.5°	9664.6	9677.4	9683.2	9707.6	9934.2	10436.3	11337.0	11455.5	12262.0	11245.2	8952.2
25°	10182.9	10173.6	10136.4	10105.1	10257.3	10657.1	11425.3	11538.0	12509.6	11640.3	9055.6
27.5°	10803.5	10791.9	10719.9	10633.9	10721.0	11001.1	11679.8	11769.3	12731.6	12009.9	9107.9
30°	11548.5	11518.3	11382.3	11280.0	11313.7	11517.1	12099.3	12180.7	13074.4	12429.4	9159.1
32.5°	12409.6	12377.1	12180.7	12011.0	12011.0	12180.7	12531.7	12599.1	13364.9	12903.6	9241.6
35°	13488.1	13447.5	13191.8	12907.1	12826.9	12912.9	13120.9	13168.5	13887.9	13500.9	9391.5
37.5°	14759.6	14704.9	14373.7	13992.5	13817.0	13812.4	13962.3	14059.9	14723.5	14285.4	9646.0
40°	16034.5	15996.1	15706.7	15406.9	15062.9	14952.5	15183.7	15214.0	15816.0	15259.3	9971.4
42.5°	17020.0	17013.0	16959.5	16999.1	16646.9	16423.8	16605.1	16629.5	17150.1	16313.4	10317.7
45°	17540.6	17552.2	17811.4	18385.5	18515.7	18353.0	18442.5	18449.4	18674.9	17376.8	10635.0
47.5°	17123.4	17183.8	17839.3	19123.5	20189.2	20729.6	20580.9	20666.9	20153.2	18290.2	10883.7
50°	15497.5	15571.9	16687.6	18794.6	20970.2	23029.5	22951.7	22931.9	21345.6	18959.6	11018.5
52.5°	13483.5	13541.6	14462.0	17085.1	20397.2	24301.0	25015.7	24913.4	22405.5	19460.5	11044.1
55°	10416.5	10507.2	11389.3	13672.9	18079.9	23815.2	26533.5	26441.7	23371.2	19723.2	11013.9
57°	7405.3	7500.6	8376.9	10435.1	15209.3	22133.5	26684.6	26782.2	23893.0	19767.3	11047.6
57.5°	6608.1	6705.7	7573.9	9572.8	14314.4	21525.7	26554.4	26717.1	23987.2	19760.4	11066.2
60°	3327.3	3364.5	3917.7	5343.7	9048.7	17402.3	24856.5	25276.0	24072.0	19418.7	11146.4
62.5°	2068.7	2041.9	2024.5	2461.5	4402.3	11540.3	21352.5	22160.2	22448.5	18591.2	10952.3
65°	1818.8	1768.8	1577.1	1542.2	1944.3	5605.1	16079.8	17085.1	18979.4	17287.3	10489.7
67.5°	1708.4	1659.6	1443.4	1313.3	1314.4	2222.1	9983.0	11115.0	14785.1	15082.6	9398.5
70°	1594.5	1550.3	1348.1	1194.7	1119.2	1230.7	4592.9	5451.7	9637.9	11855.3	7855.1
72.5°	1448.1	1417.8	1226.1	1068.0	987.8	921.6	1758.4	2076.8	5579.6	7962.0	5455.2
75°	1294.7	1266.8	1102.9	951.8	854.2	725.2	990.2	1066.9	2834.5	4073.4	2685.8
77.5°	1126.1	1109.9	980.9	841.4	763.5	600.8	700.8	738.0	1215.6	1746.7	1347.0
80°	896.0	927.4	857.7	749.6	677.5	481.1	496.2	520.7	707.8	853.0	764.7
82.5°	583.4	638.0	671.7	609.0	557.8	378.9	356.8	367.2	461.4	520.7	332.4
85°	242.9	273.1	441.6	398.6	370.7	276.6	239.4	244.1	285.9	296.4	136.0
87.5°	108.1	115.1	194.1	182.5	156.9	95.3	102.3	111.6	152.2	144.1	52.3
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°	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6	7500.6
2.5°	7507.6	7410.0	7242.6	7057.9	6906.8	6785.9	6663.9	6580.2	6482.6	6430.3	6403.6
5°	7513.4	7321.7	6969.5	6608.1	6285.0	5989.8	5708.6	5492.4	5290.2	5181.0	5150.7
7.5°	7537.8	7249.6	6680.1	6085.1	5511.0	4986.9	4582.4	4329.1	4146.6	4065.3	4042.0
10°	7557.6	7164.8	6322.2	5441.3	4660.3	4129.2	3815.4	3673.6	3610.9	3600.4	3589.9
12.5°	7604.1	7077.6	5945.7	4769.5	3999.0	3631.8	3522.5	3513.2	3530.7	3556.2	3556.2
15°	7677.3	6991.6	5515.7	4193.1	3578.3	3449.3	3471.4	3522.5	3570.2	3609.7	3615.5
17.5°	7730.8	6885.9	5053.1	3731.7	3354.0	3388.9	3467.9	3540.0	3588.8	3627.1	3630.6
20°	7769.1	6722.0	4559.2	3379.6	3225.0	3333.1	3431.9	3495.8	3529.5	3567.9	3573.7
22.5°	7749.3	6502.3	4121.1	3127.4	3120.4	3251.8	3345.9	3422.6	3397.0	3359.8	3384.2
25°	7654.0	6200.2	3670.1	2939.1	3010.0	3142.5	3258.7	3207.6	3121.6	3105.3	3114.6
27.5°	7484.4	5814.3	3252.9	2764.8	2882.2	3041.4	3034.4	2983.3	2953.1	2932.2	2944.9
30°	7301.9	5396.0	2888.0	2612.6	2740.4	2871.7	2845.0	2843.8	2813.6	2779.9	2796.2
32.5°	7121.8	4975.2	2598.6	2487.0	2633.5	2650.9	2709.0	2726.4	2667.2	2596.3	2591.6
35°	6964.9	4577.8	2379.0	2373.1	2504.5	2506.8	2591.6	2567.2	2419.6	2346.4	2346.4
37.5°	6847.5	4181.5	2211.6	2270.9	2334.8	2395.2	2438.2	2337.1	2312.7	2272.0	2270.9
40°	6796.4	3832.8	2107.0	2193.0	2215.1	2291.8	2181.4	2220.9	2232.5	2211.6	2211.6
42.5°	6742.9	3529.5	2016.4	2133.7	2130.3	2119.8	2064.0	2115.1	2161.6	2162.8	2159.3
45°	6689.4	3268.0	1936.2	2007.1	2055.9	1943.1	1953.6	2008.2	2073.3	2096.6	2096.6
47.5°	6630.2	3061.2	1863.0	1873.4	1949.0	1873.4	1865.3	1907.1	1983.8	2021.0	2029.1
50°	6500.0	2875.2	1779.3	1756.0	1777.0	1802.5	1809.5	1829.3	1914.1	1973.4	1987.3
52.5°	6319.9	2709.0	1672.4	1648.0	1648.0	1744.4	1777.0	1782.8	1854.8	1925.7	1939.7
55°	6170.0	2603.3	1562.0	1557.3	1552.7	1682.8	1738.6	1747.9	1797.9	1853.7	1860.6
57°	6180.4	2595.1	1477.1	1481.8	1480.6	1620.1	1702.6	1722.3	1747.9	1795.6	1803.7
57.5°	6186.2	2600.9	1458.5	1460.8	1459.7	1602.6	1692.1	1714.2	1734.0	1783.9	1792.1
60°	6273.4	2616.0	1383.0	1357.4	1363.2	1509.7	1632.8	1660.7	1673.5	1739.8	1750.2
62.5°	6144.4	2548.6	1322.5	1261.0	1261.0	1412.0	1550.3	1594.5	1614.3	1703.7	1721.2
65°	5770.2	2359.2	1251.7	1151.7	1163.3	1314.4	1451.5	1523.6	1553.8	1665.4	1684.0
67.5°	5192.6	2139.6	1176.1	1054.1	1065.7	1212.1	1349.3	1427.1	1474.8	1623.6	1638.7
70°	4440.6	1871.1	1073.8	950.7	964.6	1100.6	1228.4	1316.7	1387.6	1584.0	1588.7
72.5°	3273.8	1534.1	930.9	836.8	851.9	970.4	1106.4	1208.7	1304.0	1485.3	1482.9
75°	1946.6	1199.4	772.8	721.7	732.2	842.6	996.0	1120.3	1263.3	1446.9	1469.0
77.5°	1180.8	903.0	629.9	604.3	617.1	729.8	917.0	1049.4	1245.8	1364.4	1357.4
80°	713.6	645.0	503.2	486.9	499.7	624.1	848.4	996.0	1089.0	1165.7	1165.7
82.5°	373.1	394.0	369.6	356.8	374.2	506.7	771.7	869.3	962.3	826.3	771.7
85°	152.2	205.7	224.3	223.1	233.6	351.0	665.9	743.8	620.6	589.2	603.2
87.5°	51.1	87.2	109.2	94.1	98.8	220.8	461.4	359.1	426.5	297.5	282.4
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)