

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: P319290

Luminaire Tested: **GAN-SA6C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319290
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-SA6C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 34659 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

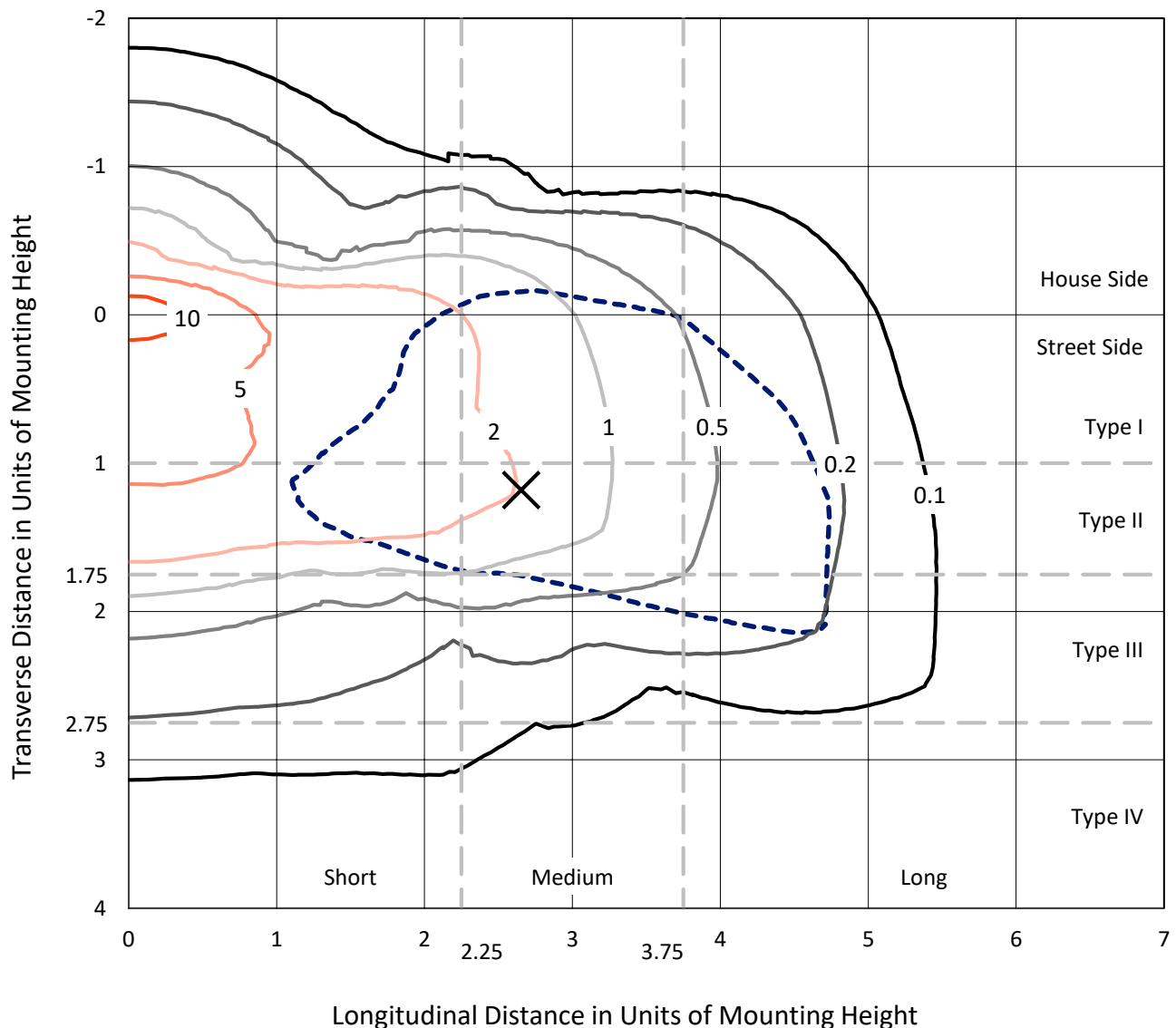


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Iso-Footcandle Lines of Horizontal Illumination

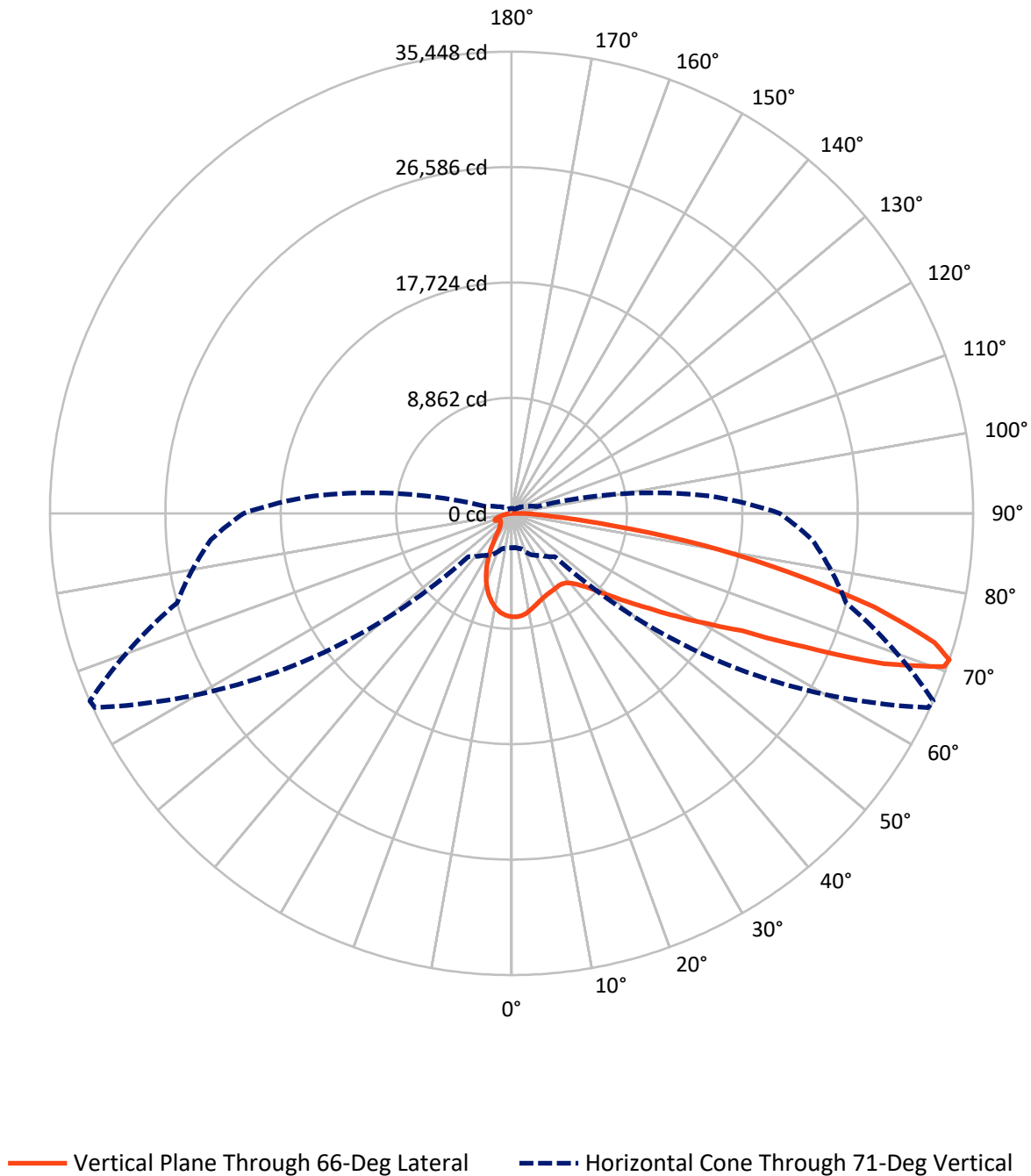
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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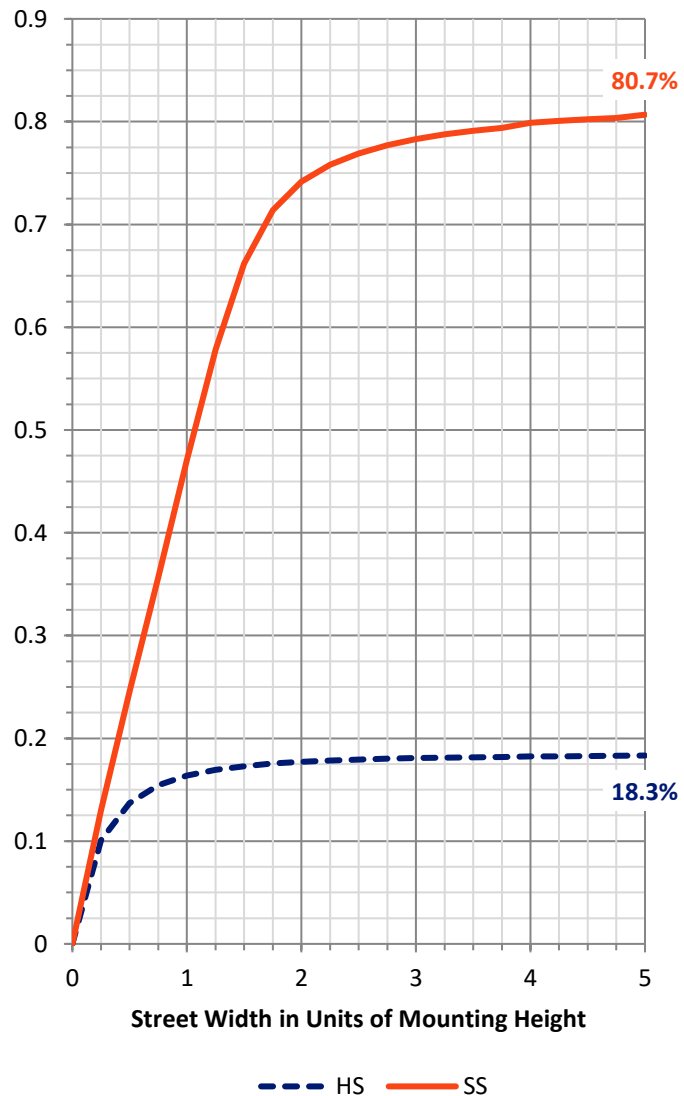
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6423.3	0.0	6423.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	28235.7	0.0	28235.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	34659.0	0.0	34659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.9	2.0
10°-20°	1676.2	4.8
20°-30°	2251.6	6.5
30°-40°	2961.9	8.5
40°-50°	4308.8	12.4
50°-60°	6730.9	19.4
60°-70°	8431.5	24.3
70°-80°	6431.3	18.6
80°-90°	1167.9	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°	34659.0	100.0
0°-180°	34659.0	100.0

Coefficient of Utilization



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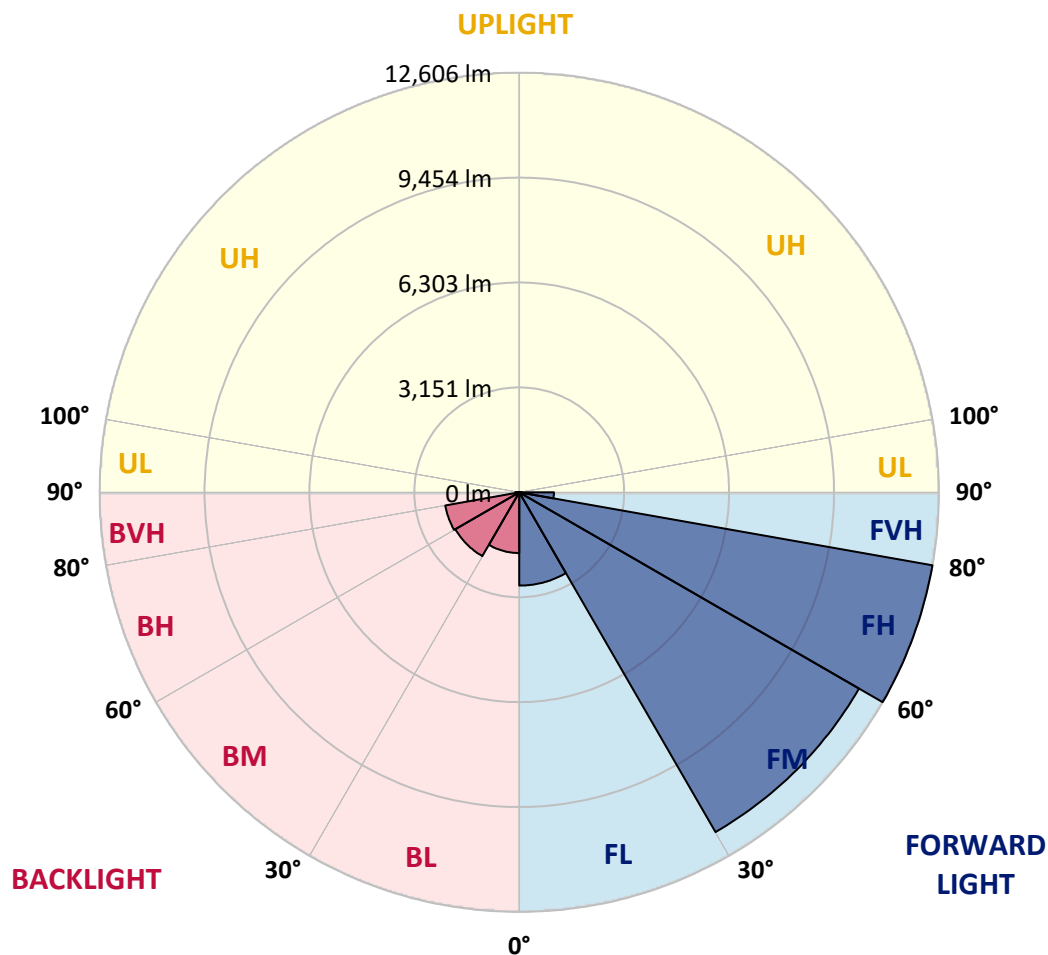
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2802.7	8.1			
FM	(30°-60°)	11785.8	34.0			
FH	(60°-80°)	12605.8	36.4			G5
FVH	(80°-90°)	1041.4	3.0			G5
BL	(0°-30°)	1824.0	5.3	B3/2500		
BM	(30°-60°)	2215.8	6.4	B2/2500		
BH	(60°-80°)	2257.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	126.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7
2.5°	7792.5	7780.6	7816.5	7853.5	7867.9	7891.8	7927.7	7948.1	7946.9	7950.5	7938.5
5°	7275.6	7260.0	7331.8	7390.4	7502.9	7629.8	7784.1	7894.2	7896.6	7958.9	7975.6
7.5°	6786.1	6775.4	6857.9	6952.5	7082.9	7276.8	7526.9	7763.8	7778.2	7946.9	8005.5
10°	6393.6	6391.3	6471.4	6574.3	6726.3	6942.9	7230.1	7577.1	7598.7	7889.4	8010.3
12.5°	6087.3	6092.1	6161.5	6278.8	6439.1	6665.3	6976.4	7367.7	7402.4	7798.5	7982.8
15°	5861.1	5880.3	5936.5	6055.0	6213.0	6442.7	6762.2	7173.9	7226.5	7696.8	7967.2
17.5°	5731.9	5753.4	5792.9	5891.1	6039.4	6260.8	6563.6	7014.7	7062.6	7619.0	7968.4
20°	5693.6	5711.6	5734.3	5794.1	5919.8	6120.8	6406.8	6871.1	6922.6	7556.8	7980.4
22.5°	5769.0	5782.2	5784.6	5779.8	5856.4	6020.3	6293.1	6765.8	6820.8	7516.1	7988.8
25°	5930.5	5948.5	5935.3	5891.1	5865.9	5966.4	6234.5	6696.4	6751.4	7486.2	7972.0
27.5°	6173.5	6175.9	6165.1	6107.7	5989.2	5972.4	6216.5	6655.7	6708.4	7451.5	7937.3
30°	6503.7	6519.3	6500.1	6422.4	6228.5	6068.2	6238.1	6616.2	6664.1	7407.2	7881.1
32.5°	6890.3	6928.5	6927.3	6846.0	6568.4	6282.4	6326.6	6592.3	6629.4	7360.5	7812.9
35°	7291.1	7343.8	7441.9	7407.2	7063.8	6621.0	6496.6	6630.6	6655.7	7354.5	7765.0
37.5°	7707.6	7760.2	7962.4	8055.8	7653.7	7105.6	6764.6	6765.8	6777.8	7427.5	7761.4
40°	8143.1	8199.4	8503.3	8746.2	8418.4	7719.5	7196.6	7048.2	7035.0	7607.0	7832.0
42.5°	8753.4	8803.7	9168.7	9478.6	9266.8	8505.7	7793.7	7483.8	7456.3	7958.9	8058.2
45°	9525.3	9568.3	9956.0	10287.5	10178.6	9403.2	8544.0	8083.3	8078.5	8545.2	8516.5
47.5°	10443.1	10476.6	10824.8	11145.5	11185.0	10435.9	9487.0	9008.3	8930.5	9349.3	9226.1
50°	11399.2	11436.3	11673.2	12017.9	12311.0	11818.0	10700.4	10141.5	10037.4	10410.8	10231.3
52.5°	12032.2	12081.3	12287.1	12723.9	13577.1	13333.0	12135.1	11515.3	11357.3	11697.2	11559.5
55°	11749.8	11859.9	12174.6	12874.6	14589.4	15647.3	13905.0	13117.6	12939.3	13221.7	13140.3
57.5°	10465.8	10616.6	11046.2	12126.7	14731.8	17686.3	16580.6	15004.7	14879.0	14797.6	14834.7
60°	8119.2	8264.0	8796.5	10204.9	13739.8	19175.0	20607.3	17330.9	17149.0	16379.6	16413.1
62.5°	5746.3	5673.3	6038.2	7068.6	11164.7	19349.7	25189.3	20442.2	19843.9	18050.1	17902.9
65°	4382.1	4365.3	4529.3	4857.2	6762.2	17259.1	27918.8	25671.5	24736.9	20015.0	19668.0
67.5°	3600.7	3570.8	3732.3	4209.8	4354.6	11134.7	27978.6	31738.5	30820.7	22460.9	21709.4
70°	2960.5	2927.0	3077.8	3694.0	4024.3	5646.9	23547.5	35291.3	35242.2	25557.8	23250.7
71°	2654.1	2630.2	2810.9	3495.4	3953.7	4706.4	20330.9	35300.9	35448.1	26606.1	23159.8
72.5°	2161.1	2169.5	2361.0	3111.3	3901.0	4155.9	14942.4	33655.5	33966.6	27605.3	22332.9
75°	1436.0	1443.1	1694.4	2393.3	3782.6	4066.2	8212.5	28240.7	28812.7	27007.0	20378.8
77.5°	964.5	962.1	1133.2	1641.8	3295.5	4066.2	4815.3	21121.9	21750.1	21489.3	15710.7
80°	664.1	659.3	780.2	1133.2	2495.0	4115.2	3722.7	14802.4	14992.7	11605.0	6385.3
82.5°	406.9	410.4	509.8	800.6	1698.0	3703.6	3514.5	8071.3	7864.3	3254.9	1595.1
85°	233.3	232.1	325.5	542.1	1090.1	3125.6	3427.2	3473.8	3186.7	980.0	576.8
87.5°	83.8	89.7	174.7	300.4	624.6	2176.7	2907.8	1806.9	1628.6	442.8	260.9
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°	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7	7939.7
2.5°	7930.1	7937.3	7928.9	7881.1	7840.4	7774.6	7737.5	7686.0	7670.5	7663.3	7682.4
5°	7960.0	7962.4	7891.8	7766.2	7625.0	7458.7	7339.0	7191.8	7122.4	7092.5	7111.6
7.5°	7987.6	7976.8	7822.4	7581.9	7321.0	7031.5	6774.2	6538.4	6400.8	6344.6	6349.4
10°	7991.2	7945.7	7698.0	7325.8	6921.4	6496.6	6101.7	5737.9	5508.1	5358.6	5404.0
12.5°	7954.1	7877.5	7514.9	6994.4	6433.1	5854.0	5320.3	4774.6	4446.7	4294.7	4299.5
15°	7925.3	7786.5	7289.9	6604.3	5850.4	5083.3	4354.6	3713.2	3363.8	3208.2	3135.2
17.5°	7901.4	7688.4	7029.1	6165.1	5162.3	4189.4	3313.5	2741.5	2550.0	2504.6	2485.4
20°	7867.9	7584.3	6738.3	5656.5	4378.5	3189.0	2419.6	2137.2	2138.4	2191.0	2198.2
22.5°	7821.2	7465.8	6428.3	5085.7	3537.3	2322.7	1896.7	1815.3	1897.9	1998.4	2016.3
25°	7751.8	7325.8	6083.7	4455.1	2697.2	1785.4	1620.3	1616.7	1717.2	1822.5	1838.0
27.5°	7653.7	7142.7	5700.8	3777.8	1987.6	1517.3	1451.5	1476.7	1550.8	1627.4	1633.4
30°	7522.1	6929.7	5278.4	3063.4	1558.0	1351.0	1343.8	1366.6	1412.0	1465.9	1470.7
32.5°	7377.3	6713.1	4827.2	2371.7	1334.3	1261.3	1268.4	1279.2	1300.7	1322.3	1327.1
35°	7245.7	6491.8	4365.3	1802.1	1227.8	1202.6	1197.8	1195.4	1197.8	1190.7	1191.9
37.5°	7160.7	6308.7	3884.3	1434.8	1166.7	1151.2	1136.8	1118.9	1098.5	1086.5	1088.9
40°	7129.6	6172.3	3397.3	1239.7	1116.5	1105.7	1078.2	1039.9	1015.9	1008.8	1008.8
42.5°	7213.3	6101.7	2927.0	1141.6	1074.6	1056.6	1011.2	966.9	948.9	947.7	946.5
45°	7469.4	6130.4	2479.4	1087.7	1036.3	1001.6	941.8	904.7	892.7	895.1	893.9
47.5°	7928.9	6311.1	2096.5	1051.8	998.0	952.5	885.5	855.6	841.2	841.2	842.4
50°	8710.3	6733.5	1791.4	1021.9	965.7	907.1	844.8	807.7	788.6	787.4	787.4
52.5°	9848.3	7489.8	1601.1	996.8	929.8	866.4	804.1	757.5	734.7	730.0	727.6
55°	11274.7	8573.9	1548.5	980.0	881.9	822.1	755.1	708.4	683.3	672.5	671.3
57.5°	12869.9	9892.6	1652.6	959.7	832.9	769.4	701.2	657.0	630.6	617.5	616.3
60°	14484.1	11332.2	2077.4	931.0	792.2	712.0	646.2	605.5	579.2	564.8	562.4
62.5°	16100.8	12849.5	2944.9	928.6	763.5	657.0	589.9	555.2	530.1	514.6	511.0
65°	17924.5	14510.5	3931.0	992.0	753.9	606.7	532.5	505.0	483.4	469.1	467.9
67.5°	20018.6	16385.6	3836.4	1122.4	786.2	561.2	478.7	457.1	441.6	429.6	428.4
70°	21001.0	16092.4	2384.9	1214.6	831.7	516.9	427.2	411.6	399.7	391.3	387.7
71°	20589.4	15279.9	1999.6	1203.8	826.9	497.8	406.9	394.9	382.9	375.7	372.2
72.5°	19466.9	13934.9	1668.1	1120.1	773.0	463.1	380.5	368.6	357.8	349.4	347.0
75°	17468.5	12445.1	1335.5	895.1	616.3	391.3	333.9	320.7	312.3	307.5	302.7
77.5°	12841.1	8881.5	1032.7	707.2	453.5	319.5	284.8	275.2	266.9	259.7	256.1
80°	4919.4	3440.3	695.2	527.7	332.7	252.5	229.8	225.0	216.6	211.8	211.8
82.5°	1324.7	1027.9	371.0	319.5	222.6	184.3	175.9	173.5	166.3	156.8	158.0
85°	536.1	453.5	208.2	175.9	136.4	108.9	118.5	119.7	111.3	99.3	100.5
87.5°	235.7	192.7	116.1	77.8	59.8	41.9	53.8	53.8	49.1	40.7	37.1
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)