

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: P193007

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53648.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

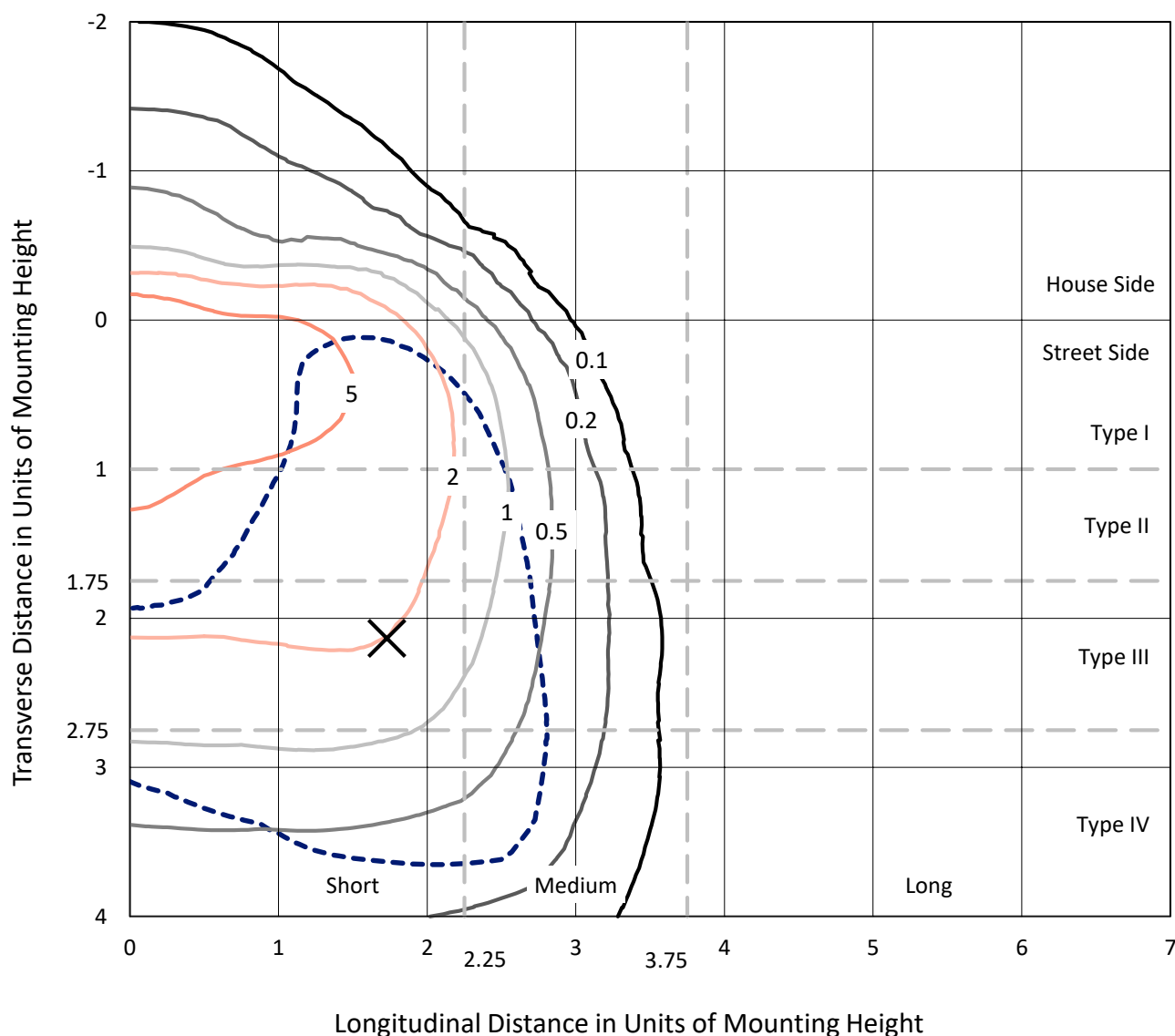


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

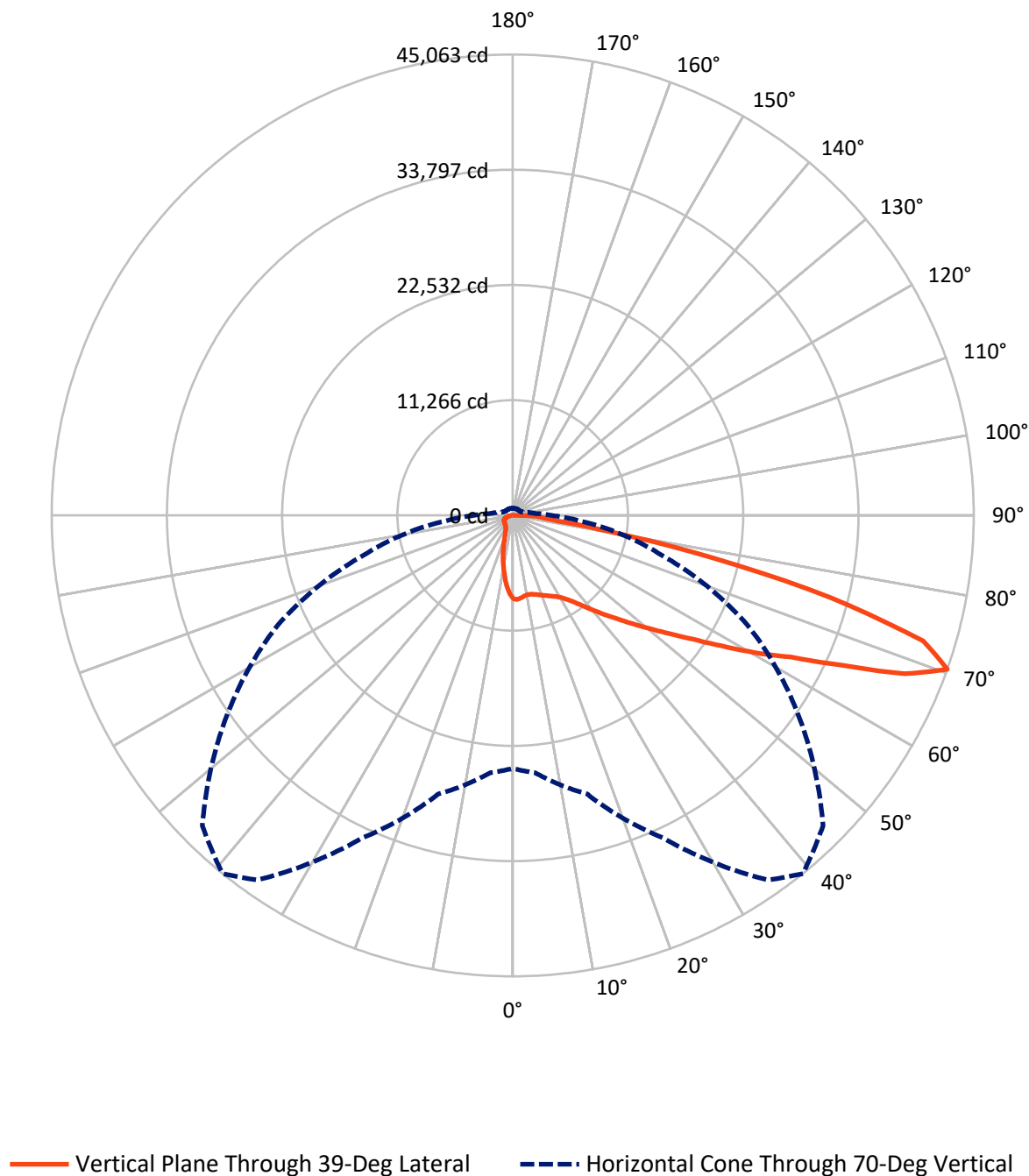


Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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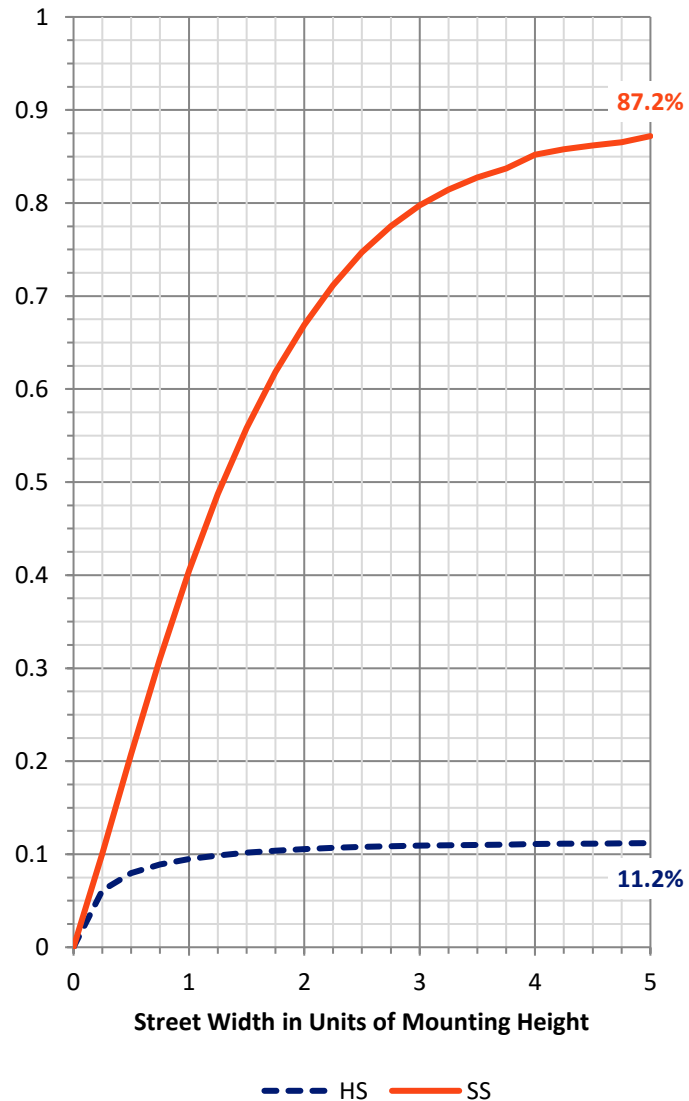
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6101.6	0.0	6101.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	47546.8	0.0	47546.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	53648.5	0.0	53648.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.0	1.3
10°-20°	1747.1	3.3
20°-30°	2720.4	5.1
30°-40°	4237.8	7.9
40°-50°	7114.6	13.3
50°-60°	11302.1	21.1
60°-70°	15075.8	28.1
70°-80°	9103.9	17.0
80°-90°	1647.7	3.1
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°	53648.5	100.0
0°-180°	53648.5	100.0

Coefficient of Utilization



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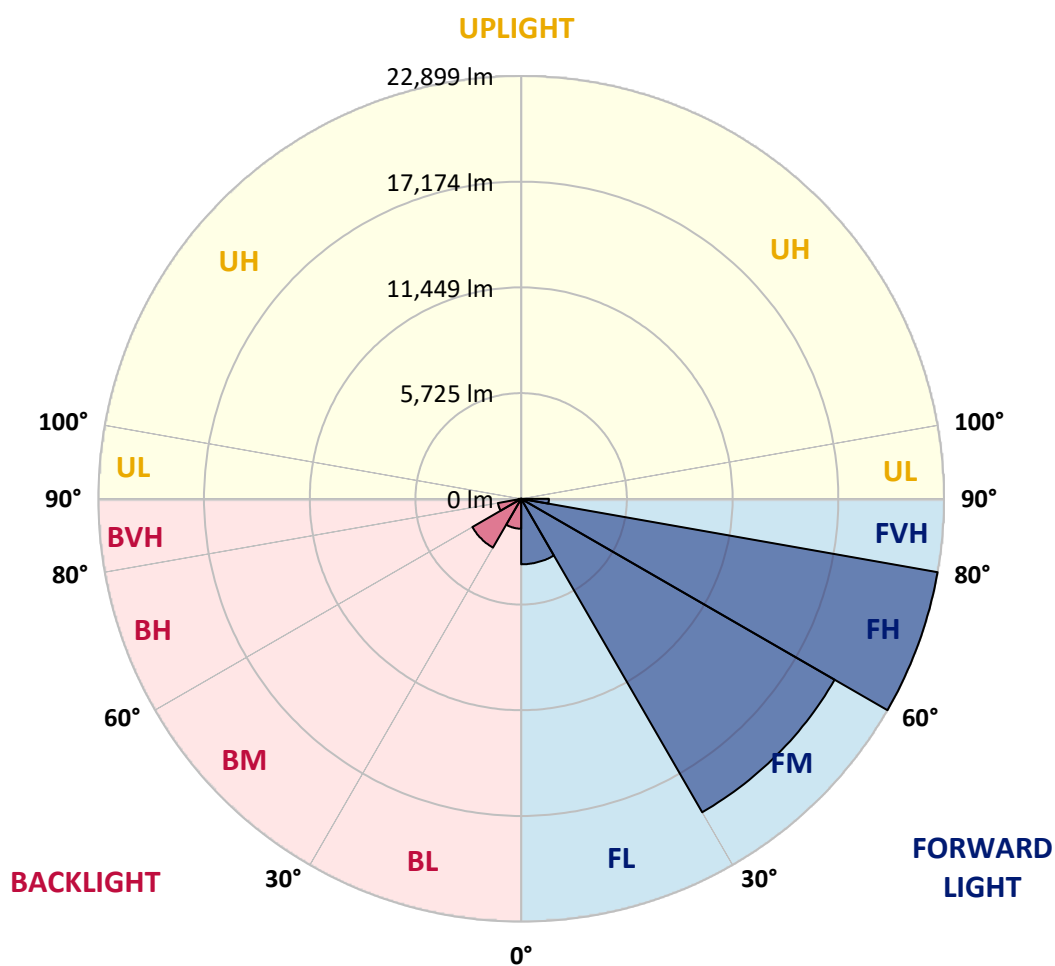
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3547.8	6.6			
FM	(30°-60°)	19601.1	36.5			
FH	(60°-80°)	22898.7	42.7			G5
FVH	(80°-90°)	1499.2	2.8			G5
BL	(0°-30°)	1618.7	3.0	B3/2500		
BM	(30°-60°)	3053.5	5.7	B3/5000		
BH	(60°-80°)	1281.0	2.4	B3/2500		G3/2500
BVH	(80°-90°)	148.5	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6
2.5°	8302.8	8300.1	8278.3	8261.9	8248.3	8242.8	8253.8	8212.9	8177.4	8133.8	8087.4
5°	8240.2	8237.4	8202.0	8169.2	8136.5	8125.6	8122.9	8049.2	8005.5	7940.1	7852.8
7.5°	8171.9	8158.3	8112.0	8057.5	8000.1	7972.8	7945.6	7850.1	7801.0	7735.5	7634.6
10°	8101.0	8084.6	8041.1	7986.5	7931.9	7891.0	7844.6	7752.0	7700.0	7651.0	7533.7
12.5°	8027.4	8013.7	8002.8	7978.3	7940.1	7904.7	7869.2	7790.0	7735.5	7678.2	7541.8
15°	8016.5	8011.0	8035.6	8052.0	8030.1	8008.2	7970.1	7901.9	7844.6	7787.4	7610.0
17.5°	8103.8	8101.0	8163.8	8207.4	8196.5	8158.3	8106.5	8030.1	7983.8	7934.6	7713.7
20°	8294.8	8308.3	8384.7	8442.0	8387.4	8332.8	8248.3	8141.9	8117.4	8095.6	7820.1
22.5°	8654.8	8668.4	8722.9	8744.8	8603.0	8523.9	8406.5	8270.2	8253.8	8270.2	7948.3
25°	9216.7	9203.0	9194.8	9113.0	8853.9	8731.1	8581.1	8439.3	8447.5	8521.1	8128.4
27.5°	9961.2	9887.6	9773.0	9527.6	9115.7	8979.4	8796.6	8665.7	8717.5	8859.3	8398.3
30°	10733.2	10651.3	10386.7	9985.9	9459.3	9309.3	9104.8	8957.5	9093.8	9317.5	8758.3
32.5°	11447.8	11436.9	11049.6	10534.0	9934.0	9803.1	9598.5	9432.2	9653.0	9994.0	9298.4
35°	12228.0	12252.5	11788.7	11169.6	10574.9	10438.6	10291.3	10165.8	10460.4	10929.5	10081.3
37.5°	13062.6	13111.6	12563.4	11865.1	11305.9	11248.7	11161.4	11106.9	11562.4	12211.6	11175.0
40°	14178.1	14129.1	13368.1	12650.7	12203.3	12200.7	12173.3	12238.7	12997.2	13886.3	12579.8
42.5°	15372.9	15228.3	14221.8	13493.5	13188.0	13280.8	13335.3	13602.7	14723.7	15921.1	14292.7
45°	16660.3	16335.7	15108.3	14385.5	14281.9	14478.2	14663.6	15244.6	16755.8	18236.9	16169.3
47.5°	17688.6	17375.0	16024.7	15321.0	15547.5	15844.8	16202.0	17121.3	19030.6	20629.0	18021.3
50°	18498.6	18294.2	16949.4	16412.1	16941.2	17399.5	17983.2	19246.1	21398.2	22958.3	19737.0
52.5°	19284.3	19131.6	17882.3	17530.4	18577.8	19210.6	20004.4	21526.4	23825.7	25249.6	21180.0
55°	19993.5	19884.3	18886.0	18924.2	20503.5	21327.3	22325.6	24123.1	26471.6	27292.5	22402.0
57.5°	20792.7	20653.5	20031.6	20672.6	22977.4	24046.7	25345.1	27041.6	28953.7	29109.2	23332.1
60°	21597.3	21477.3	21302.8	22691.1	26119.6	27243.5	28473.6	29870.2	31471.2	30519.3	23277.4
62.5°	22295.6	22309.2	22617.4	24810.4	29196.5	30497.5	31997.6	33377.8	33748.9	30764.7	21556.5
65°	23479.4	23694.8	24614.0	27810.9	33527.9	35268.2	37109.3	36888.3	34378.9	28470.9	17865.8
67.5°	24886.7	25265.9	27128.8	31809.5	39002.3	41312.6	42024.4	37682.1	31855.8	23143.9	12735.3
70°	24744.9	25265.9	28214.4	34790.8	43513.7	45063.0	42902.8	34103.4	25295.9	15119.2	6764.5
72.5°	21973.6	22718.4	26002.4	33424.3	42092.5	41956.2	37245.6	25424.2	15029.1	6071.6	2643.1
75°	16747.6	17500.4	20326.3	26406.1	33268.8	32123.2	26427.8	14044.5	5703.5	2411.3	1666.5
77.5°	9633.9	10217.7	12399.8	16193.9	21106.2	19930.7	14710.0	6246.3	2776.8	1680.2	1301.1
80°	5378.9	5703.5	7029.0	8215.6	10343.1	9481.2	6581.8	3881.4	2072.9	1219.3	1003.8
82.5°	4252.4	4541.5	5684.3	5182.5	4724.3	4358.8	3780.5	3455.9	1655.8	769.1	600.1
85°	3715.1	3990.4	4811.6	4080.5	3226.8	2959.5	3071.3	3401.3	1287.4	463.7	512.8
87.5°	3442.2	3810.5	4287.8	3144.9	2512.1	2225.7	2833.9	3728.7	414.6	289.1	207.3
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°	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6	8144.6
2.5°	8046.5	8002.8	7931.9	7869.2	7770.9	7719.1	7662.0	7621.0	7588.3	7561.0	7604.6
5°	7798.3	7716.4	7566.4	7405.5	7214.6	7064.4	6939.0	6821.8	6739.9	6685.3	6723.6
7.5°	7563.7	7430.0	7195.5	6903.6	6576.4	6298.0	6069.0	5867.1	5728.0	5638.0	5673.4
10°	7430.0	7263.7	6901.0	6442.7	5959.9	5526.2	5166.1	4855.2	4639.7	4516.9	4536.0
12.5°	7397.3	7181.8	6679.9	6049.9	5389.8	4786.9	4279.6	3848.6	3545.9	3387.7	3393.1
15°	7421.9	7146.3	6472.6	5673.4	4838.8	4077.8	3445.0	2921.3	2569.4	2389.4	2386.7
17.5°	7462.7	7119.2	6254.4	5267.1	4279.6	3395.9	2689.4	2176.7	1865.7	1721.2	1710.2
20°	7506.4	7075.4	6008.9	4827.8	3698.7	2763.0	2105.8	1704.8	1508.4	1429.2	1423.8
22.5°	7569.2	7037.3	5755.2	4364.2	3128.5	2250.3	1732.1	1462.0	1358.3	1317.4	1311.9
25°	7670.1	7018.2	5485.3	3881.4	2615.7	1882.1	1508.4	1342.0	1281.9	1254.8	1252.0
27.5°	7839.2	7045.5	5231.6	3412.2	2198.6	1633.9	1382.9	1281.9	1238.4	1213.8	1211.0
30°	8057.5	7130.0	4964.3	2967.7	1873.9	1464.7	1306.5	1241.0	1205.5	1181.1	1181.1
32.5°	8420.2	7271.9	4683.3	2583.1	1642.0	1347.5	1249.3	1205.5	1175.6	1156.5	1153.8
35°	8954.8	7539.1	4421.5	2264.0	1475.6	1262.9	1200.1	1167.4	1145.6	1134.6	1134.6
37.5°	9732.2	7961.9	4189.6	2034.9	1374.7	1205.5	1153.8	1129.2	1115.6	1115.6	1115.6
40°	10776.8	8545.6	4001.4	1882.1	1317.4	1164.7	1118.4	1099.2	1091.1	1093.8	1093.8
42.5°	12067.0	9303.9	3876.0	1775.7	1290.2	1140.1	1093.8	1077.4	1069.2	1066.5	1069.2
45°	13537.2	10165.8	3862.4	1696.6	1262.9	1123.7	1077.4	1061.0	1044.6	1033.8	1033.8
47.5°	14966.5	11041.4	3974.1	1669.3	1232.9	1104.7	1063.7	1047.4	1022.8	998.3	998.3
50°	16229.4	11786.1	4124.2	1680.2	1221.9	1077.4	1041.9	1033.8	995.6	968.2	965.6
52.5°	17233.1	12358.9	4246.9	1712.9	1232.9	1058.2	1014.7	1017.4	976.4	946.5	943.8
55°	18037.7	12735.3	4214.1	1745.6	1257.5	1047.4	990.1	995.6	962.9	932.8	932.8
57.5°	18389.7	12596.2	3851.4	1718.4	1276.4	1050.1	971.0	992.8	965.6	938.3	938.3
60°	17634.0	11360.6	3172.3	1598.4	1252.0	1041.9	962.9	1003.8	1001.1	973.7	971.0
62.5°	15348.3	9148.4	2460.3	1421.1	1167.4	1001.1	941.0	1001.1	1031.1	1022.8	1020.2
65°	11829.7	6516.3	1879.4	1230.1	1052.8	932.8	883.8	938.3	979.2	990.1	987.3
67.5°	7678.2	3993.2	1448.3	1050.1	924.7	853.8	810.1	834.6	842.8	842.8	837.4
70°	3775.0	2149.3	1153.8	883.8	793.8	769.1	744.6	731.1	717.4	706.5	706.5
72.5°	1863.0	1404.7	949.3	747.4	684.6	673.7	668.2	651.9	641.1	627.3	621.9
75°	1377.4	1142.9	807.4	630.1	589.1	578.3	589.1	575.6	572.8	561.9	556.4
77.5°	1131.9	973.7	695.6	540.1	504.6	485.5	501.8	504.6	507.3	491.0	485.5
80°	919.2	823.7	580.9	447.3	414.6	401.0	411.9	433.6	439.1	414.6	403.7
82.5°	662.7	673.7	469.2	349.1	321.9	311.0	332.8	360.0	365.5	330.1	321.9
85°	556.4	561.9	360.0	248.2	220.9	204.6	240.1	267.3	286.4	251.0	242.8
87.5°	231.8	330.1	207.3	139.1	122.7	106.4	128.2	141.8	171.9	158.2	155.4
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)