

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: P320102

Luminaire Tested: **GAN-SA8D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 59088 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

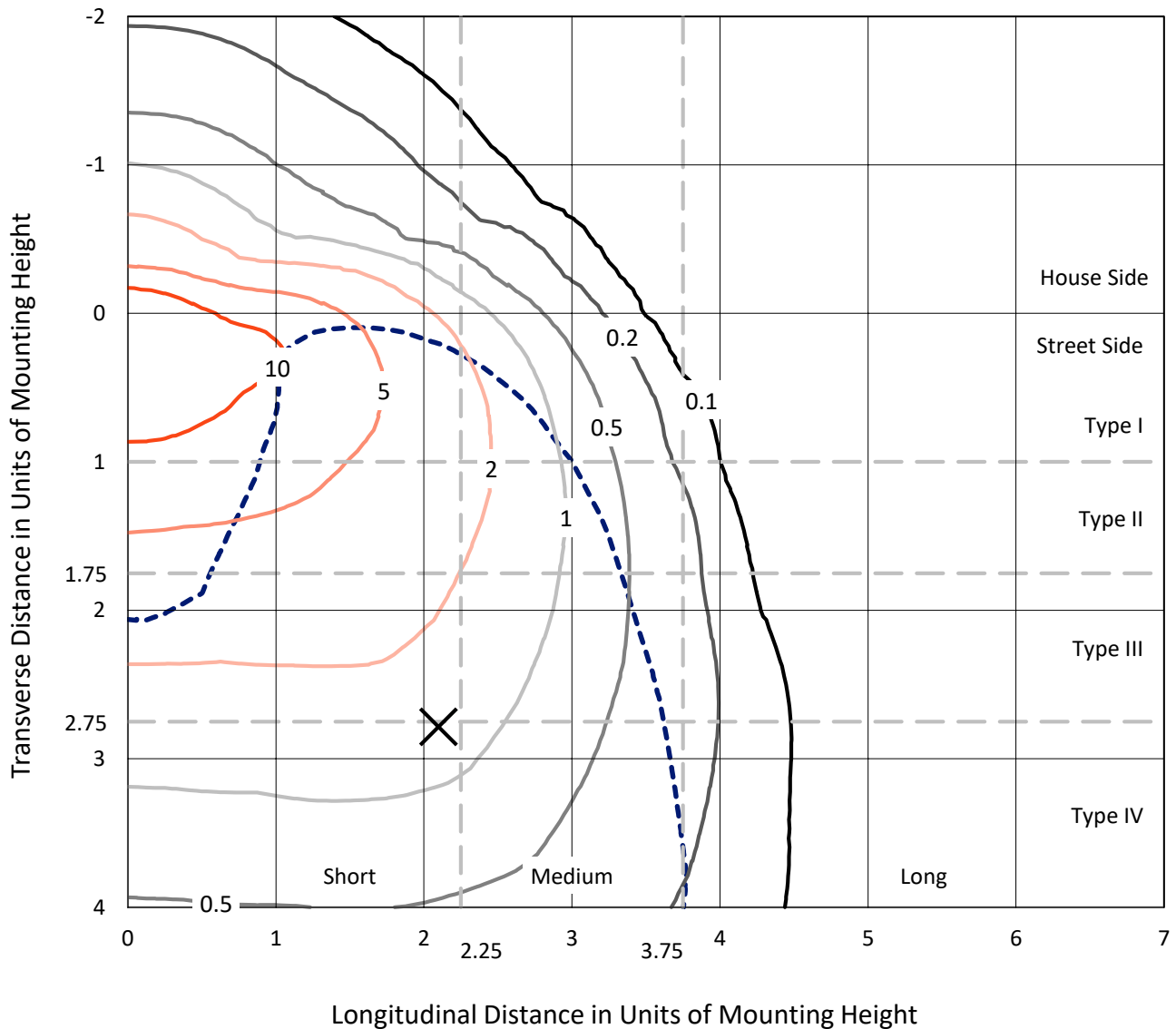
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

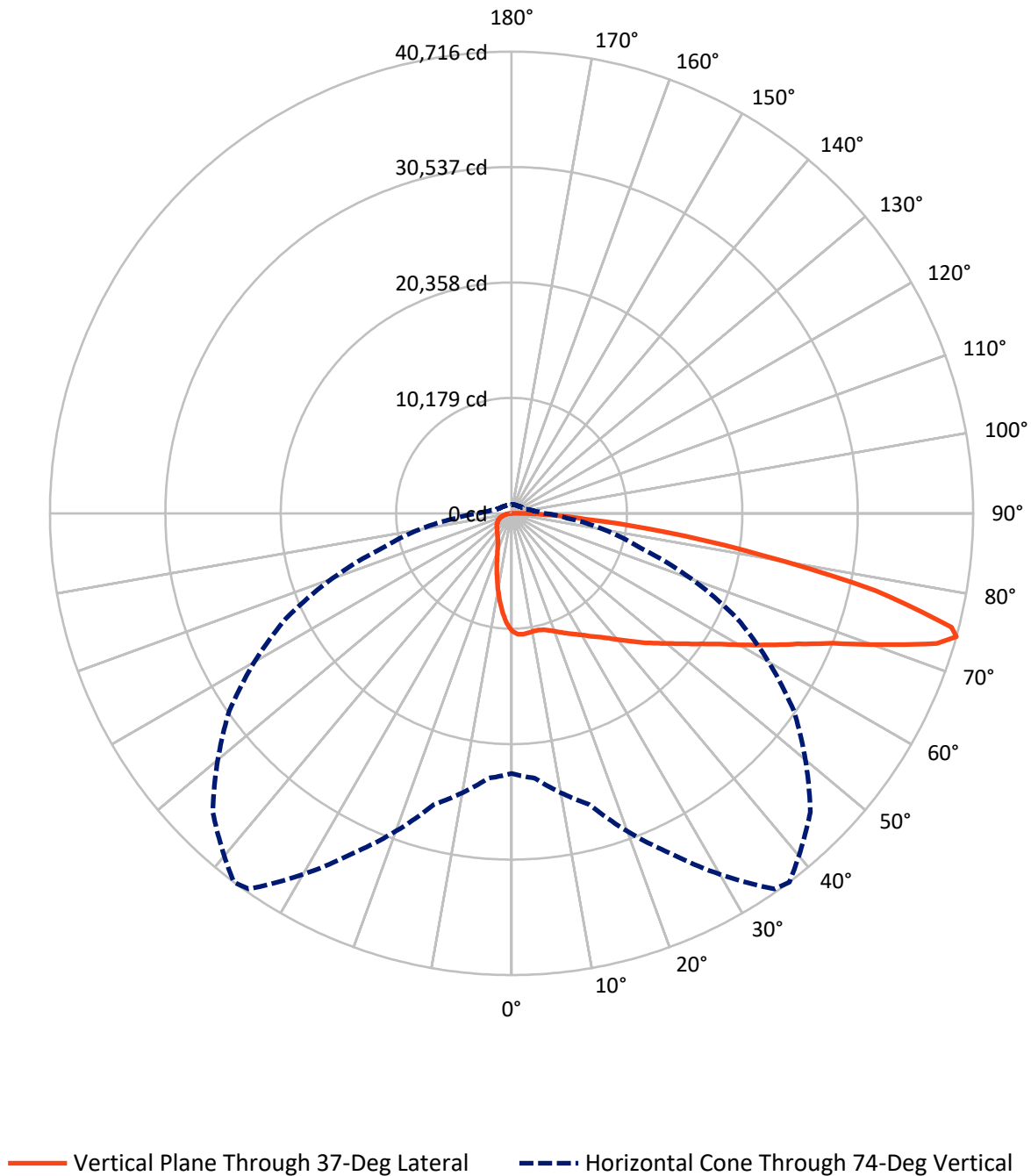
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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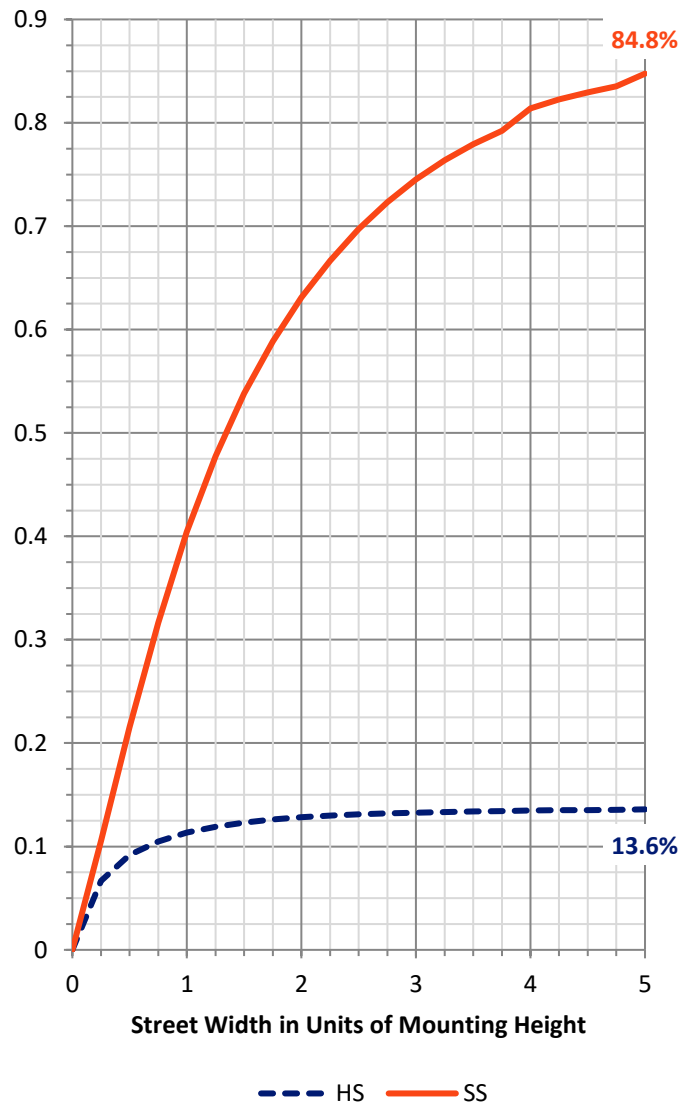
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8130.1	0.0	8130.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	50957.9	0.0	50957.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	59088.0	0.0	59088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.8	1.6
10°-20°	2350.0	4.0
20°-30°	3620.9	6.1
30°-40°	5265.4	8.9
40°-50°	7749.7	13.1
50°-60°	10883.1	18.4
60°-70°	13774.7	23.3
70°-80°	12129.1	20.5
80°-90°	2398.2	4.1
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°	59088.0	100.0
0°-180°	59088.0	100.0

Coefficient of Utilization



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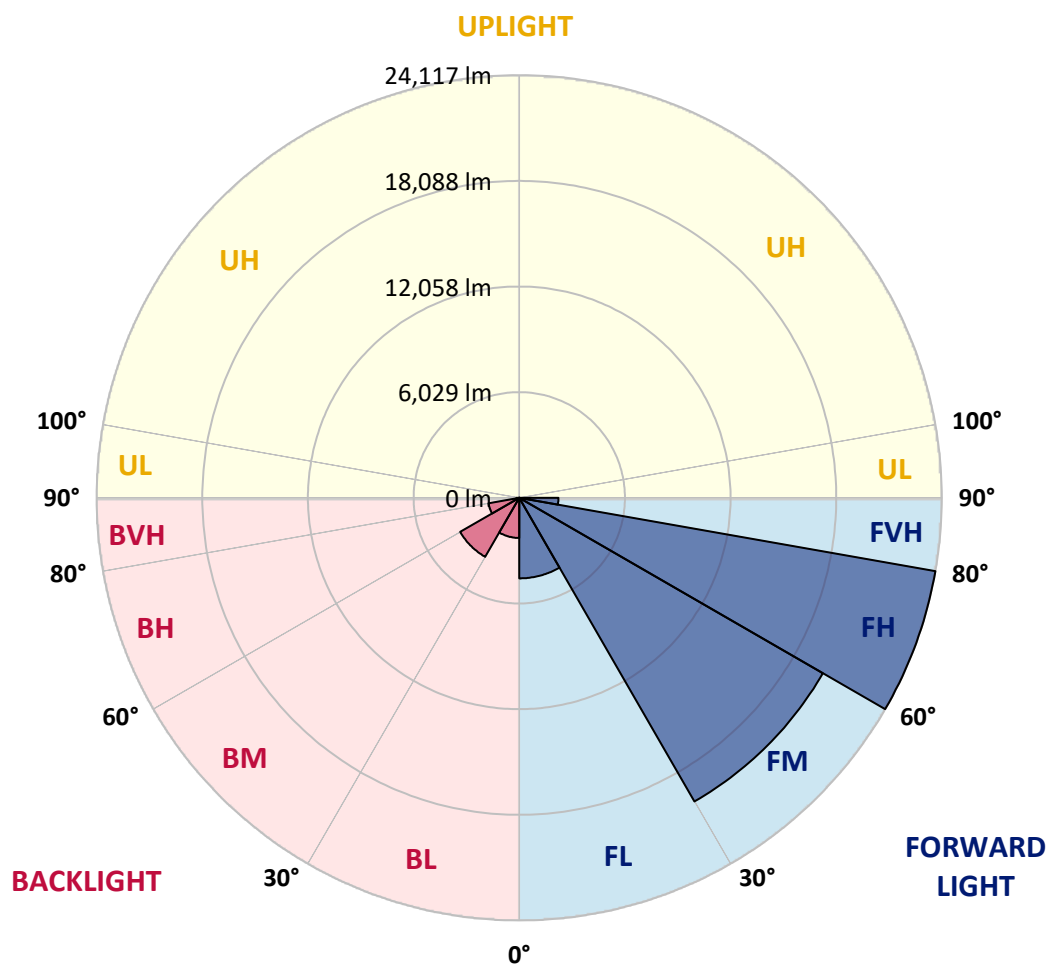
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4597.7	7.8			
FM	(30°-60°)	20007.7	33.9			
FH	(60°-80°)	24116.7	40.8			G5
FVH	(80°-90°)	2235.8	3.8			G5
BL	(0°-30°)	2290.1	3.9	B3/2500		
BM	(30°-60°)	3890.6	6.6	B3/5000		
BH	(60°-80°)	1787.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	162.4	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°	37°	45°	55°	65°	75°	85°
0°	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1
2.5°	10767.0	10769.1	10767.0	10750.3	10710.8	10677.5	10650.4	10610.9	10523.5	10456.9	10357.0
5°	10869.0	10856.5	10848.2	10816.9	10754.5	10717.0	10665.0	10590.1	10446.5	10313.3	10150.9
7.5°	10821.1	10806.5	10787.8	10750.3	10679.6	10648.4	10575.5	10477.7	10304.9	10130.1	9897.0
10°	10673.3	10669.2	10660.8	10652.5	10592.2	10567.2	10500.6	10396.5	10225.8	10013.5	9740.9
12.5°	10508.9	10519.3	10552.6	10596.3	10569.3	10556.8	10515.1	10444.4	10269.5	10040.6	9711.7
15°	10404.8	10434.0	10523.5	10637.9	10660.8	10656.7	10646.3	10600.5	10415.2	10161.3	9778.3
17.5°	10369.4	10417.3	10588.0	10777.4	10844.0	10858.6	10862.7	10783.6	10577.6	10309.1	9847.0
20°	10434.0	10494.3	10744.1	11004.3	11110.4	11118.7	11100.0	10962.6	10731.6	10436.1	9884.5
22.5°	10629.6	10683.7	10995.9	11289.4	11410.1	11422.6	11366.4	11158.3	10894.0	10585.9	9936.5
25°	11006.4	11073.0	11385.2	11678.6	11741.1	11743.2	11662.0	11403.9	11106.3	10796.1	10048.9
27.5°	11497.6	11564.2	11845.1	12132.4	12099.1	12080.3	11970.0	11711.9	11383.1	11085.4	10248.7
30°	12045.0	12117.8	12384.2	12588.2	12509.1	12471.6	12382.1	12049.1	11768.1	11480.9	10554.7
32.5°	12611.1	12677.7	12910.8	13050.3	12950.4	12933.7	12798.4	12494.5	12269.8	12084.5	11050.1
35°	13191.8	13239.7	13468.6	13547.7	13414.5	13410.3	13372.9	13094.0	12952.4	13039.9	11770.2
37.5°	13785.0	13797.5	13993.1	13997.3	13957.8	13974.4	14014.0	13839.1	13878.7	14151.3	12706.8
40°	14313.7	14347.0	14488.5	14532.2	14600.9	14659.2	14856.9	14742.4	15048.4	15531.3	13872.4
42.5°	14705.0	14769.5	14996.4	15108.8	15331.5	15423.0	15702.0	15808.1	16424.2	17148.5	15258.6
45°	15035.9	15135.8	15500.1	15731.1	16107.8	16268.1	16667.7	17023.6	17979.0	18903.1	16717.7
47.5°	15393.9	15520.9	15976.7	16417.9	16930.0	17111.0	17837.5	18370.3	19637.8	20668.1	18093.5
50°	15920.5	16018.3	16463.7	17156.8	17795.8	18028.9	19034.2	19798.1	21323.8	22349.9	19286.1
52.5°	16655.2	16617.8	16994.5	17966.5	18824.0	19111.3	20312.2	21317.5	23032.6	23871.4	20293.5
55°	17394.1	17331.7	17596.0	18813.6	20022.9	20324.7	21719.2	22843.2	24658.1	25240.9	21065.7
57.5°	18216.3	18097.6	18320.3	19769.0	21388.3	21748.4	23294.8	24464.6	26256.6	26348.2	21556.9
60°	19063.4	18903.1	19152.9	20953.3	23122.1	23546.7	25138.9	26046.4	27763.6	27234.9	21715.1
62.5°	19804.4	19692.0	20077.0	22275.0	25076.5	25542.7	26949.7	27728.2	29249.7	27603.3	21144.8
65°	20451.7	20470.4	21136.4	23761.1	27255.7	27753.2	29027.0	29801.2	30419.4	27384.8	19810.6
67.5°	21223.9	21330.0	22466.4	25717.6	29999.0	30544.3	32049.1	32061.6	31073.0	26102.6	17183.9
70°	22349.9	22568.4	24296.0	28431.7	33899.5	34648.8	35810.2	33389.5	30155.1	22626.7	13520.7
72.5°	23349.0	23756.9	26242.1	31537.1	38653.4	39221.6	38010.2	32623.6	26319.1	16957.0	8423.4
74°	22943.1	23448.9	26595.9	33066.9	40443.3	40716.0	37267.2	30388.2	21944.0	11743.2	4895.4
75°	22068.9	22618.4	26079.7	33052.4	40216.5	40064.5	35473.0	27834.3	18072.6	8009.2	3257.4
77.5°	17810.4	18391.1	21975.2	28327.6	32975.3	32831.7	27249.5	18672.1	7915.5	2626.7	1654.7
80°	10354.9	10798.2	13641.4	17989.4	22235.4	22495.6	17920.7	9239.3	3113.7	1475.7	1121.9
82.5°	4599.9	4905.8	6589.7	9183.1	13418.7	13753.8	9385.0	4841.3	1923.2	897.1	674.4
85°	3018.0	3244.9	4000.4	4373.0	6389.8	6618.8	4593.6	3769.4	1269.6	493.3	495.4
87.5°	2170.9	2389.4	2972.2	2595.5	2932.7	2776.6	2499.7	3488.4	509.9	281.0	166.5
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°	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1	10411.1
2.5°	10313.3	10279.9	10205.0	10063.5	9984.4	9917.8	9807.5	9743.0	9713.8	9711.7	9724.2
5°	10057.2	9980.2	9786.7	9549.4	9360.0	9187.2	8972.8	8843.8	8752.2	8698.1	8712.7
7.5°	9759.6	9638.9	9335.0	8956.2	8652.3	8317.2	7986.3	7788.5	7634.5	7520.0	7540.8
10°	9555.6	9389.1	8945.8	8400.5	7894.7	7407.6	6951.8	6679.2	6462.7	6296.2	6308.7
12.5°	9486.9	9262.2	8648.1	7919.7	7209.9	6543.9	5948.6	5530.2	5307.5	5118.1	5132.7
15°	9497.3	9195.5	8398.4	7486.7	6593.8	5755.0	5032.8	4543.7	4241.9	4110.7	4112.8
17.5°	9505.7	9118.5	8136.1	7022.6	5984.0	5018.2	4233.5	3738.2	3453.0	3332.3	3334.4
20°	9478.6	8993.7	7811.4	6489.8	5347.1	4341.8	3582.1	3161.6	2945.2	2851.5	2851.5
22.5°	9443.2	8845.9	7445.1	5954.8	4718.5	3754.8	3115.8	2795.3	2670.4	2608.0	2605.9
25°	9459.9	8735.6	7070.5	5405.4	4139.9	3286.5	2805.7	2593.4	2510.1	2470.6	2468.5
27.5°	9549.4	8683.5	6724.9	4857.9	3634.1	2934.7	2597.6	2447.7	2393.6	2368.6	2368.6
30°	9711.7	8683.5	6364.9	4391.7	3213.7	2674.6	2437.3	2335.3	2297.8	2281.2	2281.2
32.5°	9994.8	8731.4	6017.3	3929.7	2878.6	2470.6	2304.1	2235.4	2206.3	2197.9	2197.9
35°	10481.8	8893.7	5678.0	3492.6	2608.0	2304.1	2177.1	2137.6	2116.8	2114.7	2120.9
37.5°	11166.6	9224.7	5359.6	3169.9	2416.5	2168.8	2071.0	2039.8	2027.3	2037.7	2046.0
40°	12028.3	9674.3	5070.2	2878.6	2270.8	2060.6	1973.2	1952.3	1946.1	1960.7	1973.2
42.5°	13069.0	10282.0	4833.0	2668.3	2158.4	1969.0	1889.9	1864.9	1858.7	1875.3	1892.0
45°	14195.0	10935.6	4666.5	2512.2	2071.0	1900.3	1817.0	1790.0	1777.5	1785.8	1804.6
47.5°	15219.1	11553.8	4599.9	2401.9	1987.7	1842.0	1752.5	1719.2	1698.4	1694.2	1708.8
50°	16082.8	12013.7	4631.1	2335.3	1921.1	1777.5	1690.1	1652.6	1621.4	1602.7	1613.1
52.5°	16711.4	12303.1	4660.2	2306.2	1869.1	1706.7	1621.4	1586.0	1544.4	1513.2	1513.2
55°	17167.2	12369.7	4595.7	2283.3	1829.5	1629.7	1544.4	1511.1	1469.5	1434.1	1429.9
57.5°	17346.2	12182.3	4356.3	2250.0	1802.5	1556.9	1463.2	1438.2	1402.9	1361.2	1359.1
60°	17104.8	11603.7	3894.3	2179.2	1767.1	1496.5	1382.0	1365.4	1348.7	1309.2	1307.1
62.5°	16134.9	10334.1	3296.9	2035.6	1696.3	1432.0	1307.1	1315.4	1317.5	1290.5	1286.3
65°	14376.1	8589.9	2714.1	1848.3	1590.2	1355.0	1230.1	1269.6	1292.5	1288.4	1282.1
67.5°	11820.2	6685.4	2299.9	1650.5	1450.7	1248.8	1146.8	1192.6	1211.4	1225.9	1221.8
70°	8773.0	4714.3	1902.4	1442.4	1282.1	1123.9	1038.6	1061.5	1049.0	1065.7	1071.9
72.5°	4891.2	2828.6	1550.6	1234.3	1107.3	978.2	917.9	913.7	886.7	886.7	886.7
74°	2934.7	2075.1	1363.3	1105.2	1001.1	882.5	830.5	811.7	786.8	788.8	786.8
75°	2360.3	1783.7	1250.9	1019.9	926.2	826.3	774.3	749.3	730.6	730.6	728.5
77.5°	1490.3	1355.0	1007.4	811.7	741.0	680.6	645.2	611.9	611.9	609.8	607.8
80°	1126.0	1078.2	784.7	614.0	568.2	522.4	499.5	485.0	485.0	491.2	489.1
82.5°	772.2	811.7	551.6	428.8	405.9	372.6	368.4	370.5	364.2	355.9	353.8
85°	564.1	609.8	372.6	270.6	247.7	226.9	243.5	251.8	241.4	222.7	214.4
87.5°	216.5	399.6	199.8	112.4	104.1	89.5	104.1	108.2	116.6	91.6	93.7
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)