

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: P319773

Luminaire Tested: **GAN-SA9C-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63236 lumens
Efficiency: N/A
Efficacy: 126.2 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): 501
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

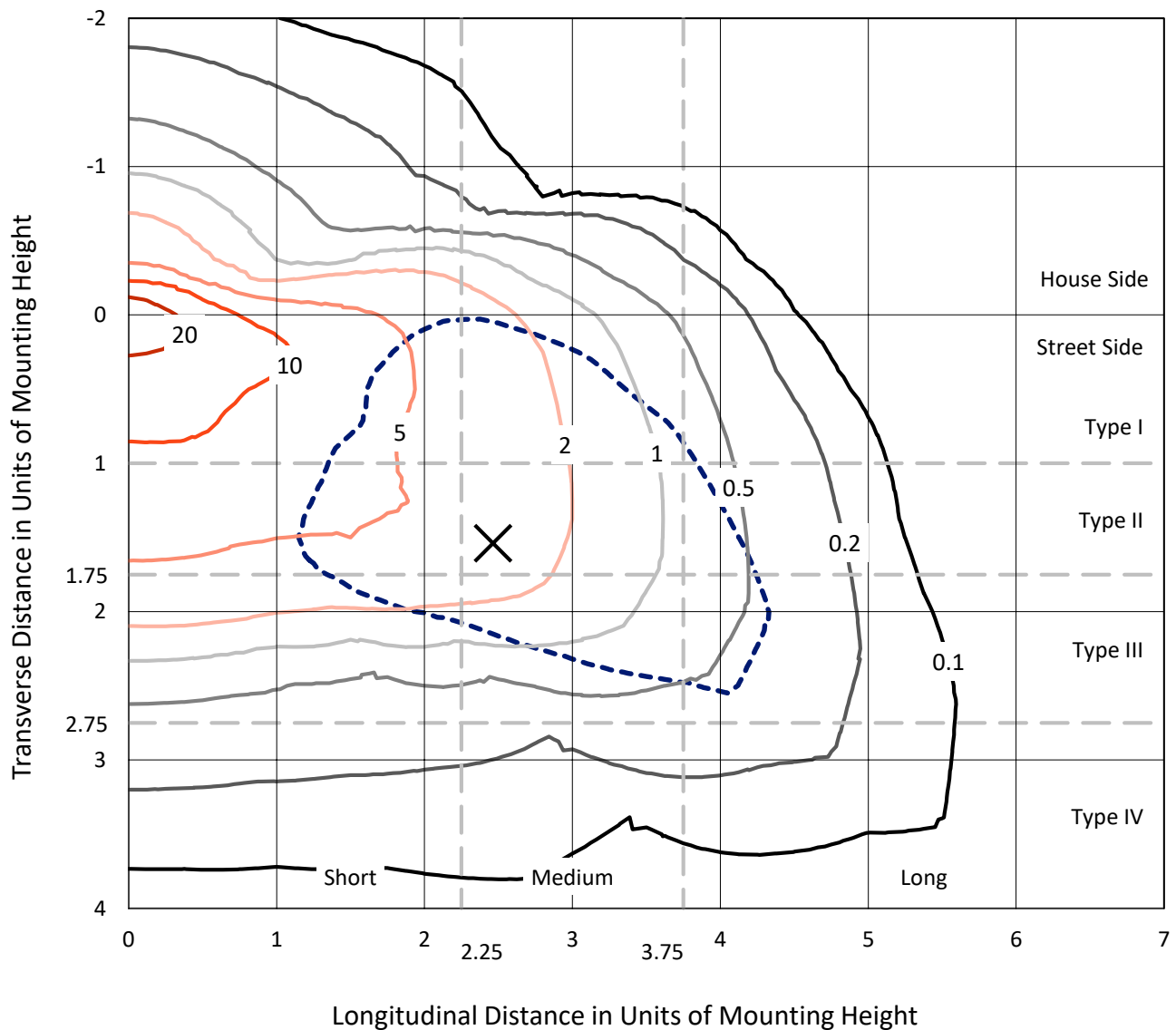


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Iso-Footcandle Lines of Horizontal Illumination

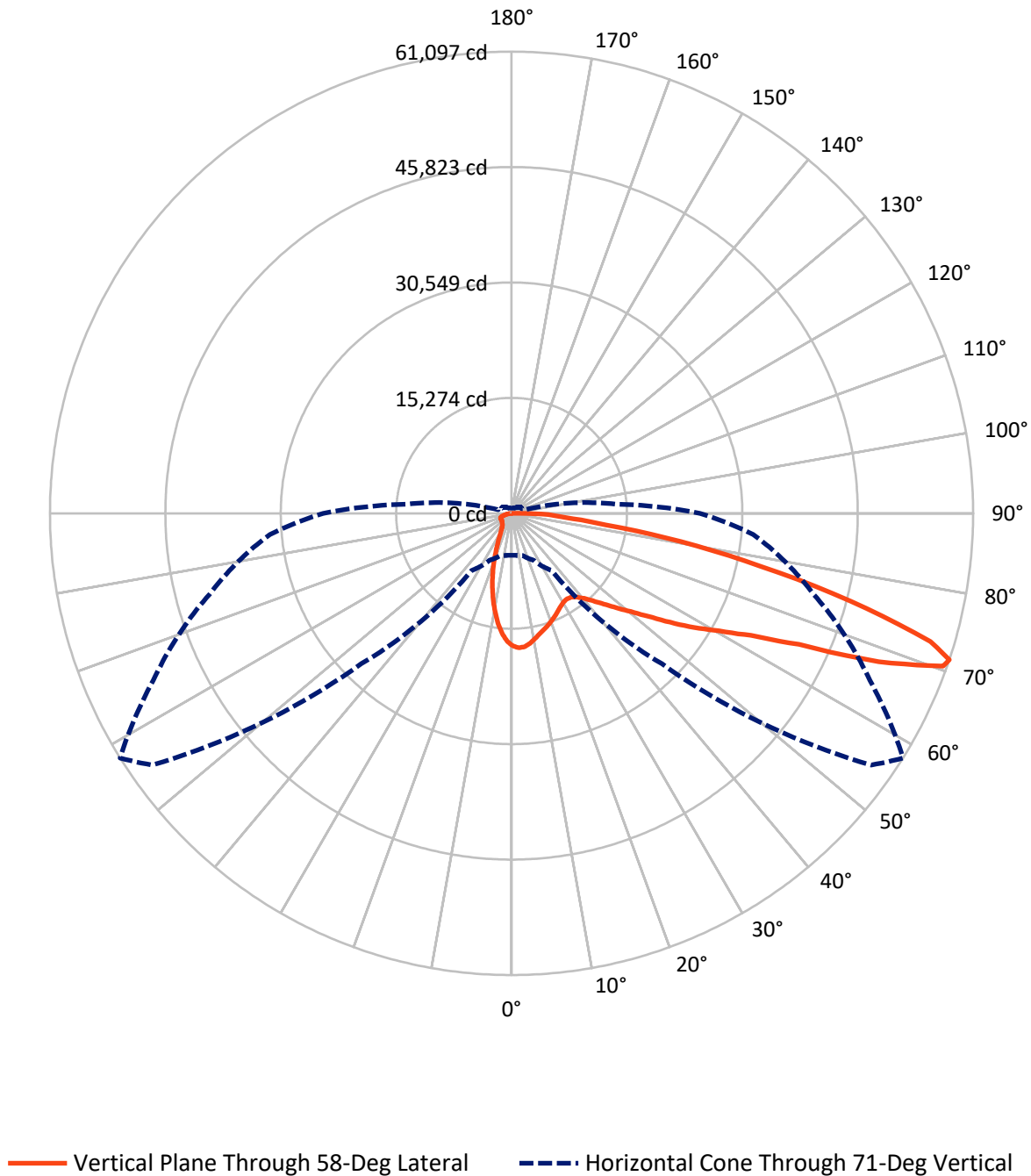
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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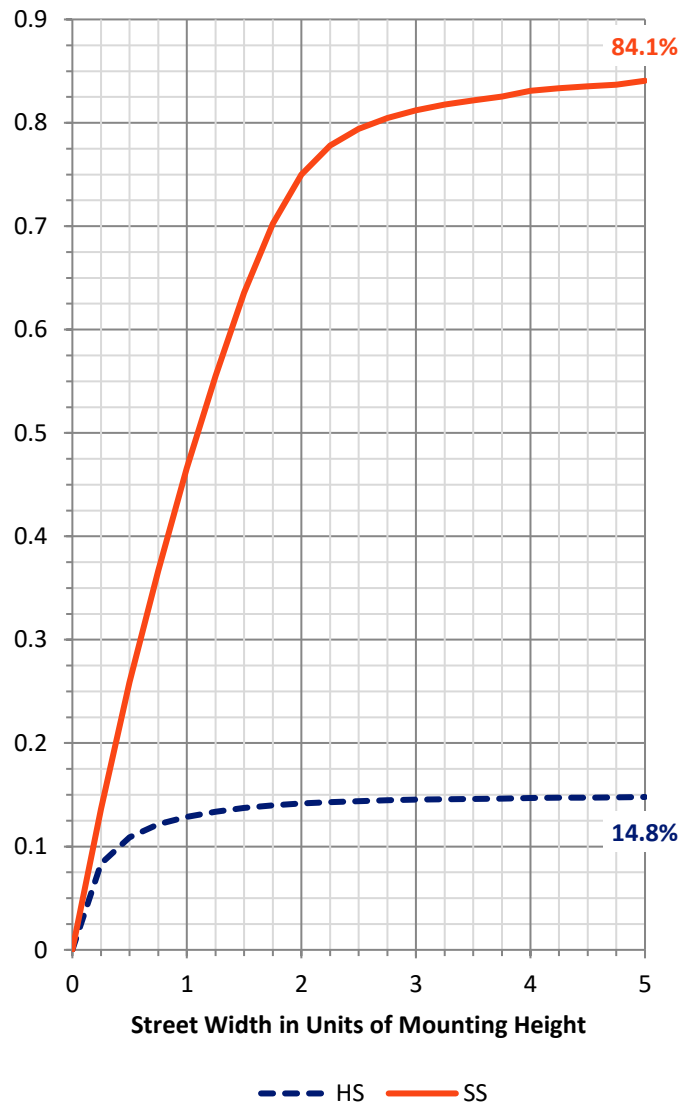
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9454.2	0.0	9454.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	53781.8	0.0	53781.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	63236.0	0.0	63236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1511.5	2.4
10°-20°	3361.0	5.3
20°-30°	4271.5	6.8
30°-40°	5441.0	8.6
40°-50°	7715.6	12.2
50°-60°	11940.2	18.9
60°-70°	16255.1	25.7
70°-80°	10844.1	17.1
80°-90°	1895.9	3.0
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°	63236.0	100.0
0°-180°	63236.0	100.0

Coefficient of Utilization



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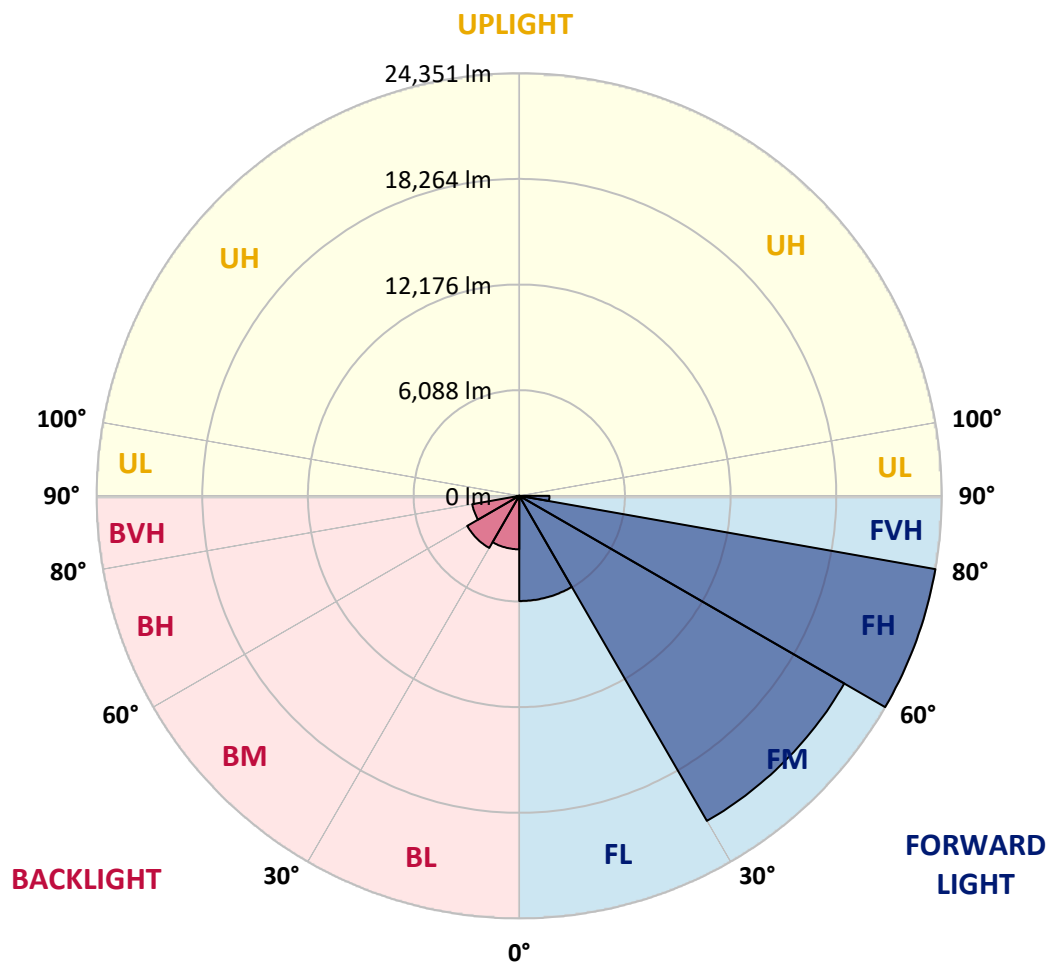
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6062.2	9.6			
FM	(30°-60°)	21629.8	34.2			
FH	(60°-80°)	24351.4	38.5			G5
FVH	(80°-90°)	1738.4	2.7			G5
BL	(0°-30°)	3081.8	4.9	B4/5000		
BM	(30°-60°)	3467.1	5.5	B3/5000		
BH	(60°-80°)	2747.8	4.3	B4/5000		G4/5000
BVH	(80°-90°)	157.5	0.2			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°	58°	65°	75°	85°
0°	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6
2.5°	17985.4	17961.1	17970.0	17952.3	17910.5	17868.6	17807.0	17818.0	17732.1	17604.3	17445.7
5°	17646.2	17637.3	17703.4	17740.9	17771.7	17747.5	17729.9	17751.9	17626.3	17450.1	17174.8
7.5°	16934.7	16837.7	16921.5	17047.0	17166.0	17256.3	17375.2	17390.6	17311.3	17126.3	16765.1
10°	15923.6	15831.1	15954.5	16150.5	16388.4	16604.3	16844.4	16888.4	16903.8	16736.4	16298.1
12.5°	14875.1	14804.6	14928.0	15203.3	15597.6	15930.2	16313.5	16379.6	16516.1	16403.8	15866.3
15°	13936.7	13910.3	14060.1	14331.0	14784.8	15293.6	15846.5	15967.7	16199.0	16161.5	15529.3
17.5°	13126.1	13119.5	13234.1	13518.2	14020.4	14663.6	15381.7	15586.6	15930.2	15974.3	15251.8
20°	12522.6	12509.4	12588.7	12797.9	13315.6	14044.7	14879.5	15161.5	15657.1	15811.3	14965.4
22.5°	12198.8	12196.6	12198.8	12297.9	12720.8	13399.3	14390.5	14734.1	15390.5	15681.3	14648.2
25°	12143.7	12137.1	12088.6	12077.6	12317.7	12859.6	13905.9	14284.8	15137.2	15591.0	14346.5
27.5°	12286.9	12295.7	12231.8	12128.3	12176.8	12505.0	13485.2	13890.5	14934.6	15573.4	14137.2
30°	12584.3	12579.9	12524.8	12416.8	12322.1	12372.8	13185.6	13590.9	14798.0	15650.5	13994.0
32.5°	12912.5	12936.7	12925.7	12866.2	12725.2	12522.6	13095.3	13491.8	14758.4	15835.5	13932.3
35°	13306.8	13333.2	13412.5	13458.7	13293.5	12967.5	13289.1	13632.8	14872.9	16183.5	14031.5
37.5°	13681.2	13749.5	13972.0	14168.0	14027.1	13663.6	13804.6	14049.1	15227.5	16732.0	14298.0
40°	14113.0	14172.4	14535.9	14952.2	14930.2	14553.5	14635.0	14798.0	15853.1	17518.4	14780.4
42.5°	14538.1	14657.0	15183.5	15773.8	15943.4	15610.8	15740.8	15826.7	16734.2	18560.3	15621.8
45°	15104.2	15232.0	15963.3	16674.7	17071.2	16884.0	17091.1	17124.1	17842.2	19978.9	16844.4
47.5°	15961.1	16106.4	16958.9	17705.6	18311.4	18331.2	18672.6	18659.4	19225.5	21602.3	18384.1
50°	17295.9	17505.2	18203.4	18901.7	19637.4	20047.1	20503.1	20439.2	20884.2	23331.4	20157.3
52.5°	19044.9	19141.8	19659.5	20174.9	21089.0	22007.6	22661.8	22604.5	22765.3	25109.0	22170.6
55°	20857.8	20930.4	21144.1	21426.1	22655.2	24153.1	25536.4	25446.1	25038.6	26954.9	24159.7
57.5°	22487.8	22635.4	22782.9	22899.7	24232.4	26395.4	28477.0	28483.6	27505.6	28946.2	26214.8
60°	22741.1	22871.1	23846.9	24767.6	26930.7	29386.8	31624.7	31558.7	30058.6	31107.1	28505.7
62.5°	20102.2	20395.2	22025.2	24474.7	29529.9	34858.4	35640.3	35558.8	33111.6	33770.2	31173.2
65°	14405.9	14738.5	16705.6	20386.4	28270.0	40887.3	42887.4	41790.4	37274.8	37045.7	34296.7
67.5°	8310.9	8390.2	9242.7	12198.8	21525.2	41202.3	53942.9	52407.6	43739.8	40761.7	35825.4
70°	6145.6	6143.4	6346.1	7506.9	11648.1	33627.0	59200.9	60577.6	50546.3	41984.2	33664.5
71°	5557.5	5564.1	5791.0	6832.9	9225.1	28146.6	58084.1	61097.4	52339.3	41380.7	32100.5
72.5°	4753.5	4775.5	5090.5	6128.0	7760.3	19410.6	53273.3	57978.3	53189.6	39891.6	29653.3
75°	3605.9	3656.5	4092.7	5165.4	7092.8	9844.0	39098.6	46297.2	47251.0	35199.8	22034.0
77.5°	2572.8	2630.1	3123.5	4343.8	6742.6	7418.8	26184.0	33770.2	34772.5	22558.3	9938.8
80°	1625.6	1693.9	2066.2	3456.1	6335.1	7044.4	16454.5	22699.2	18961.2	7218.4	2528.7
82.5°	953.8	1006.7	1282.0	2257.8	5174.2	6784.4	9681.0	12582.1	7379.2	2180.7	1149.8
85°	552.9	577.1	799.6	1438.4	3757.9	6403.4	7112.6	7033.4	3202.8	1066.1	544.1
87.5°	257.7	286.4	473.6	751.1	2086.0	4641.2	5621.4	4857.0	1991.3	500.0	255.5
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°	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6	17520.6
2.5°	17368.6	17331.2	17174.8	17036.0	16890.6	16701.2	16491.9	16465.5	16337.7	16362.0	16317.9
5°	17025.0	16930.3	16553.6	16212.2	15809.1	15447.8	15055.7	14875.1	14615.2	14597.6	14531.5
7.5°	16533.8	16357.6	15773.8	15126.2	14478.6	13861.8	13251.7	12850.8	12441.1	12267.1	12251.6
10°	15980.9	15681.3	14822.2	13864.0	12930.1	12029.2	11156.9	10511.5	9930.0	9654.6	9643.6
12.5°	15456.6	15013.9	13835.4	12531.4	11253.8	10086.3	8890.3	8042.2	7313.1	7068.6	6965.1
15°	15011.7	14388.3	12875.0	11207.5	9656.8	8035.6	6674.3	5782.2	5108.2	4874.7	4830.6
17.5°	14579.9	13778.1	11890.4	9870.5	7995.9	6213.9	4850.4	4187.4	3828.4	3733.6	3731.4
20°	14150.4	13150.4	10861.7	8502.6	6390.2	4647.8	3729.2	3431.9	3310.7	3299.7	3282.1
22.5°	13663.6	12485.1	9780.2	7130.3	4987.0	3654.3	3169.7	3050.8	3035.4	3075.0	3075.0
25°	13207.6	11824.3	8683.2	5786.6	3879.0	3048.6	2830.5	2806.3	2848.1	2918.6	2925.2
27.5°	12782.5	11187.7	7612.7	4592.7	3108.1	2685.1	2594.8	2623.5	2698.4	2779.9	2782.1
30°	12432.3	10586.4	6573.0	3619.1	2625.7	2414.2	2398.8	2456.1	2537.6	2601.4	2616.9
32.5°	12161.3	10073.1	5568.5	2909.8	2310.7	2211.6	2224.8	2273.2	2323.9	2359.1	2383.4
35°	12035.8	9632.6	4641.2	2453.9	2110.2	2055.2	2072.8	2099.2	2121.2	2147.7	2167.5
37.5°	12057.8	9291.2	3812.9	2169.7	1975.9	1947.2	1947.2	1947.2	1947.2	1960.4	1962.6
40°	12262.7	9095.1	3138.9	1989.1	1885.5	1854.7	1830.5	1808.5	1790.8	1799.6	1795.2
42.5°	12786.9	9077.5	2645.5	1874.5	1812.9	1762.2	1713.7	1682.9	1660.9	1669.7	1674.1
45°	13676.8	9297.8	2312.9	1793.0	1744.6	1667.5	1605.8	1572.8	1557.3	1586.0	1590.4
47.5°	14828.9	9778.0	2110.2	1733.6	1680.7	1579.4	1513.3	1482.4	1486.8	1528.7	1539.7
50°	16313.5	10557.7	2013.3	1696.1	1636.6	1504.5	1436.2	1409.8	1423.0	1482.4	1495.7
52.5°	17943.5	11681.1	2024.3	1685.1	1608.0	1449.4	1376.7	1345.9	1367.9	1423.0	1434.0
55°	19824.7	13031.4	2207.1	1700.5	1566.1	1414.2	1328.3	1275.4	1293.0	1343.7	1352.5
57.5°	21915.1	14577.7	2575.0	1696.1	1513.3	1381.1	1277.6	1198.3	1211.5	1242.3	1251.2
60°	24091.4	16445.7	3145.5	1709.3	1489.1	1341.5	1209.3	1110.2	1105.8	1132.2	1136.6
62.5°	26703.8	18606.6	3797.5	1718.1	1504.5	1290.8	1119.0	1022.1	1008.9	1015.5	1019.9
65°	29395.6	20170.5	3553.0	1682.9	1552.9	1249.0	1039.7	936.2	911.9	907.5	909.7
67.5°	29479.3	18494.2	2491.3	1612.4	1572.8	1226.9	980.2	863.5	823.8	808.4	806.2
70°	26437.3	15024.9	1940.6	1537.5	1493.5	1191.7	925.2	804.0	744.5	720.3	718.1
71°	24952.6	13831.0	1839.3	1500.1	1434.0	1156.4	900.9	777.6	715.9	689.5	685.1
72.5°	22624.3	12399.2	1715.9	1440.6	1319.4	1066.1	854.7	740.1	676.2	645.4	638.8
75°	16236.4	8108.3	1473.6	1284.2	1092.6	850.3	748.9	665.2	610.2	572.7	568.3
77.5°	6255.8	3227.0	1114.6	1068.3	837.0	665.2	616.8	574.9	535.3	497.8	495.6
80°	1934.0	1442.8	812.8	804.0	605.8	495.6	480.2	469.2	453.8	414.1	405.3
82.5°	1033.1	828.2	559.5	519.8	396.5	330.4	348.0	352.4	354.6	312.8	308.4
85°	493.4	438.3	315.0	295.2	231.3	185.0	213.7	231.3	233.5	191.6	178.4
87.5°	235.7	229.1	147.6	112.3	85.9	61.7	74.9	92.5	101.3	72.7	63.9
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)