

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: P318813

Luminaire Tested: **GAN-SA9C-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63612 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

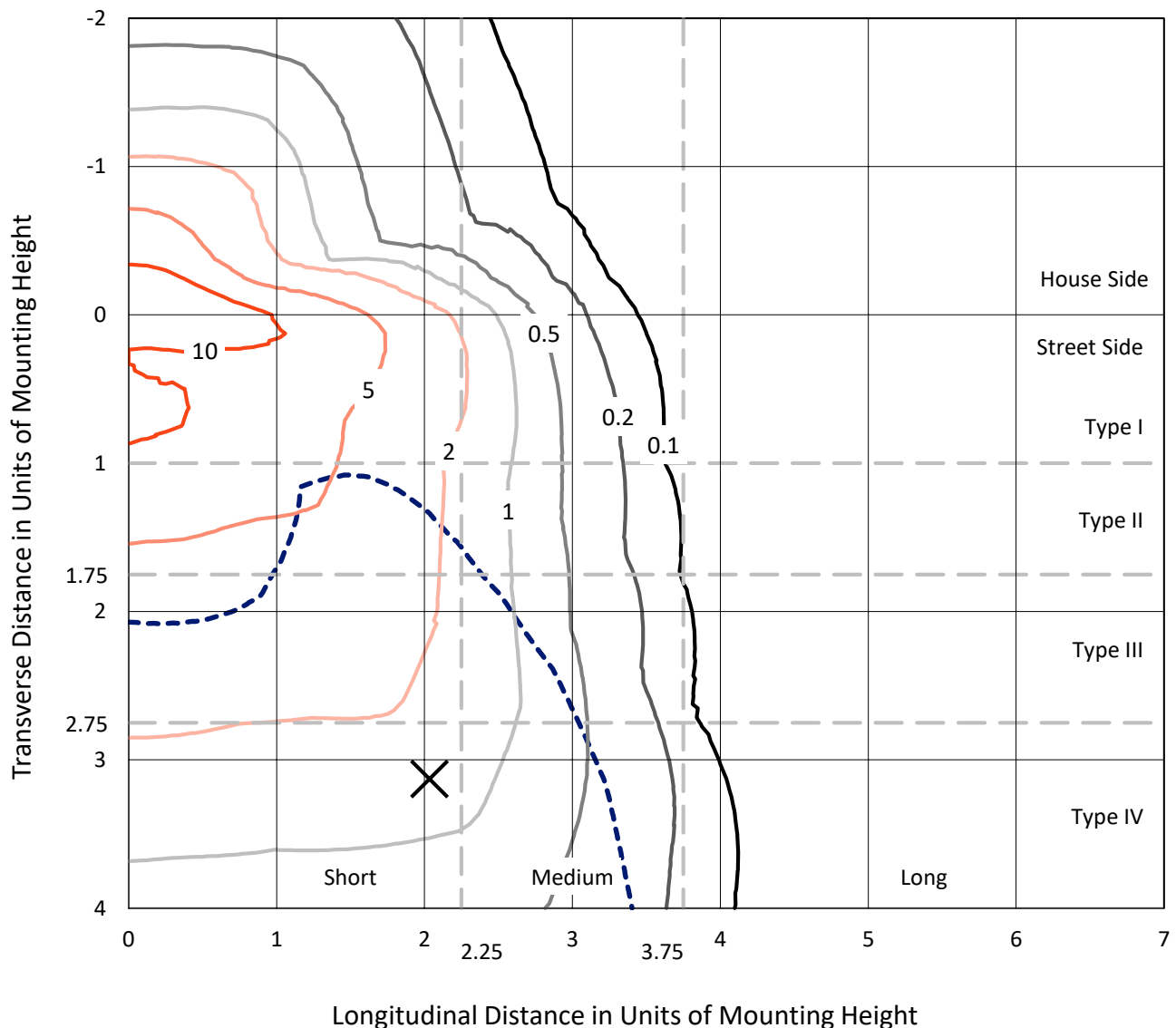
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

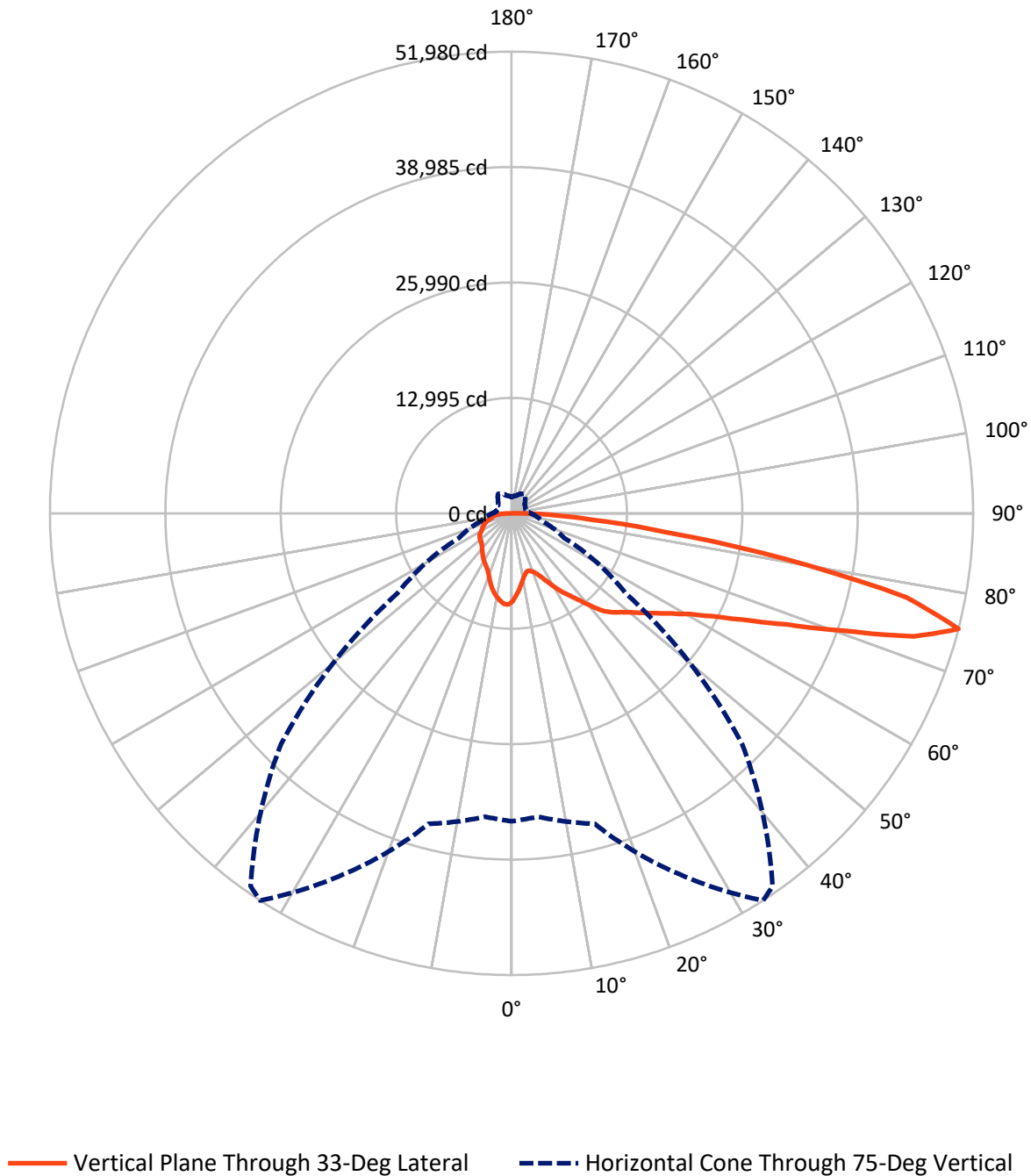
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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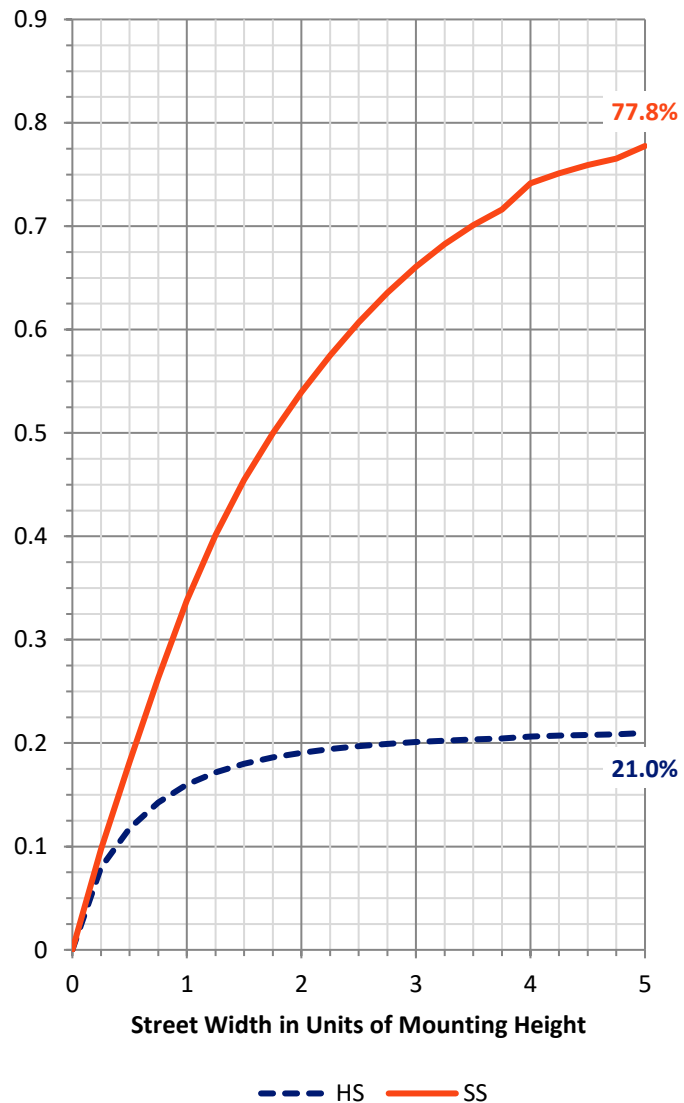
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13659.2	0.0	13659.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	49952.8	0.0	49952.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	63612.0	0.0	63612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.2	1.4
10°-20°	2435.4	3.8
20°-30°	3977.4	6.3
30°-40°	5923.3	9.3
40°-50°	8495.7	13.4
50°-60°	11663.2	18.3
60°-70°	14601.9	23.0
70°-80°	13209.6	20.8
80°-90°	2406.2	3.8
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°	63612.0	100.0
0°-180°	63612.0	100.0

Coefficient of Utilization



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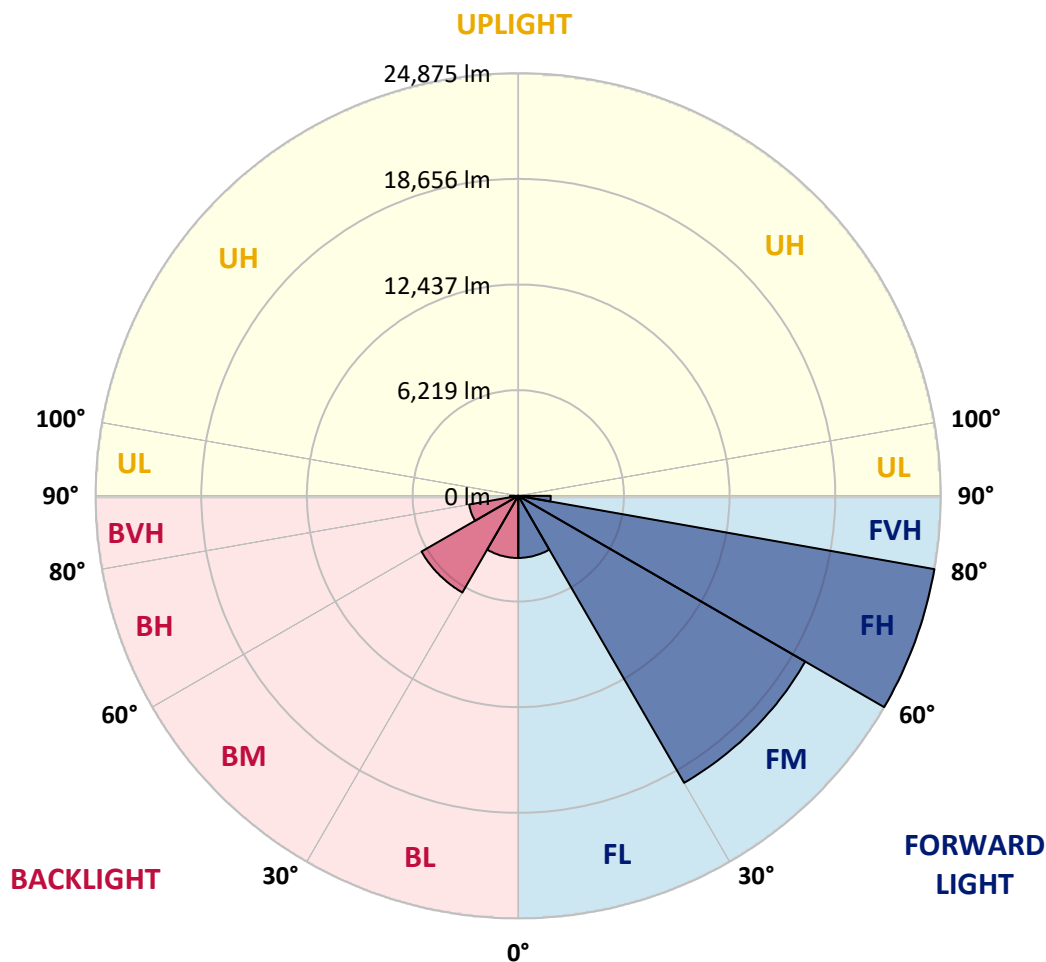
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3653.5	5.7			
FM	(30°-60°)	19508.5	30.7			
FH	(60°-80°)	24874.5	39.1			G5
FVH	(80°-90°)	1916.3	3.0			G5
BL	(0°-30°)	3658.6	5.8	B4/5000		
BM	(30°-60°)	6573.8	10.3	B4/8500		
BH	(60°-80°)	2937.0	4.6	B4/5000		G4/5000
BVH	(80°-90°)	489.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9
2.5°	9233.2	9198.0	9263.9	9272.7	9329.9	9351.8	9430.9	9554.0	9655.1	9771.5	9877.0
5°	8396.0	8371.8	8464.1	8530.0	8655.3	8708.0	8894.8	9156.3	9389.2	9652.9	9892.4
7.5°	7600.6	7587.4	7690.7	7840.1	7985.1	8057.6	8380.6	8760.7	9149.7	9576.0	9942.9
10°	6930.4	6926.0	7024.9	7172.1	7385.2	7466.5	7884.0	8385.0	8929.9	9516.6	10028.6
12.5°	6554.6	6570.0	6616.2	6739.2	6937.0	7018.3	7481.9	8070.8	8745.4	9496.9	10153.9
15°	6646.9	6671.1	6592.0	6587.6	6728.2	6791.9	7227.0	7846.7	8613.5	9529.8	10336.2
17.5°	7040.2	7044.6	6835.9	6704.0	6789.7	6822.7	7147.9	7719.2	8536.6	9604.5	10564.8
20°	7594.0	7583.0	7213.8	6994.1	7040.2	7049.0	7260.0	7721.4	8530.0	9734.2	10861.4
22.5°	8327.9	8246.6	7750.0	7451.1	7440.2	7427.0	7547.8	7884.0	8626.7	9945.1	11215.2
25°	9285.9	9209.0	8525.6	8116.9	8029.0	7996.1	8013.7	8231.2	8817.9	10171.4	11610.7
27.5°	10351.6	10217.6	9558.4	8980.5	8798.1	8752.0	8646.5	8721.2	9026.6	10389.0	12080.9
30°	11243.7	11171.2	10595.5	9910.0	9694.6	9628.7	9351.8	9270.5	9327.7	10685.6	12674.2
32.5°	11742.5	11694.2	11344.8	10791.1	10591.1	10498.8	10107.7	9945.1	9811.1	11153.6	13478.4
35°	12346.8	12316.0	12105.1	11703.0	11406.3	11309.7	11006.4	10837.2	10492.2	11797.5	14517.8
37.5°	13115.9	13082.9	13087.3	12762.1	12408.3	12318.2	12118.3	11940.3	11375.6	12643.4	15647.2
40°	13986.0	13922.3	13898.1	13882.7	13658.6	13608.1	13502.6	13260.9	12483.0	13654.2	16761.2
42.5°	15295.6	15069.3	14585.9	14768.2	14990.2	14963.8	15049.5	14702.3	13713.5	14849.5	17848.9
45°	16559.1	16187.7	15352.7	15392.3	15877.9	16025.1	16666.7	16420.6	15047.3	16159.2	18973.9
47.5°	17134.8	16853.5	16143.8	16146.0	16627.2	16932.6	18338.9	18163.1	16449.2	17646.7	20347.3
50°	17778.6	17497.3	16860.1	17099.6	17519.3	17844.5	19953.9	19863.9	17783.0	19275.0	21993.1
52.5°	18481.7	18004.9	17600.6	18029.1	18618.0	18995.9	21571.2	21325.1	19006.9	20914.2	23885.0
55°	18490.5	18360.9	18668.5	18982.7	19863.9	20327.5	23265.3	22614.9	20004.5	22524.8	25425.3
57.5°	19543.0	19332.1	19984.7	20129.7	21281.1	21804.1	24950.7	23737.7	21019.6	23759.7	26255.9
60°	20936.1	20756.0	21289.9	21672.3	23034.6	23733.3	26750.3	24891.3	21817.3	24691.4	26216.3
62.5°	23342.2	23137.9	23131.3	23667.4	25502.2	26315.2	28769.6	26023.0	22133.7	24876.0	25097.9
65°	26864.5	26539.3	25926.3	26181.2	28910.3	29721.1	31026.3	26842.6	21716.2	23887.2	22217.2
67.5°	30292.4	30281.4	29527.7	30050.7	33410.4	34060.8	33597.2	26923.9	20413.2	20443.9	17106.2
70°	33709.2	33753.2	33625.7	35445.1	39490.4	40167.2	36335.0	25831.8	17484.1	14763.9	10248.3
72.5°	36416.3	36405.3	37047.0	41738.3	47381.0	47229.4	38642.2	22522.6	12553.3	7969.7	4897.8
75°	34662.9	34280.5	36192.2	44854.1	51980.0	51239.5	36680.0	15710.9	6515.1	3627.8	2636.8
77.5°	22608.3	22970.9	25776.9	37053.6	45467.1	44566.2	26910.7	7330.3	3069.7	2379.7	1911.7
80°	8187.2	8569.6	12069.9	20988.9	31325.1	31177.9	13252.1	3012.5	2076.5	1797.4	1393.1
82.5°	2817.0	2957.6	4761.6	9321.1	17686.3	18345.5	4985.7	1711.7	1509.6	1274.5	953.6
85°	1105.3	1265.7	2177.6	4484.7	8921.2	8987.1	2019.3	1024.0	1050.3	835.0	523.0
87.5°	419.7	509.8	1041.5	2083.1	4073.8	3742.1	722.9	487.8	597.7	496.6	248.3
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°	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9	9942.9
2.5°	9958.3	10004.4	10101.1	10167.0	10237.4	10257.1	10265.9	10283.5	10301.1	10294.5	10296.7
5°	10019.8	10109.9	10265.9	10331.8	10362.6	10327.4	10259.3	10204.4	10164.8	10142.9	10136.3
7.5°	10120.9	10248.3	10415.3	10404.4	10334.0	10178.0	10002.2	9870.4	9760.5	9721.0	9699.0
10°	10254.9	10404.4	10520.8	10395.6	10191.2	9920.9	9657.3	9452.9	9288.1	9224.4	9213.4
12.5°	10426.3	10577.9	10599.9	10334.0	9995.6	9626.5	9268.3	8998.1	8752.0	8672.9	8655.3
15°	10648.3	10791.1	10654.8	10226.4	9753.9	9257.3	8793.7	8426.8	8167.5	8070.8	8035.6
17.5°	10881.2	11017.4	10665.8	10048.4	9437.5	8820.1	8237.8	7862.0	7565.4	7453.3	7440.2
20°	11160.2	11221.8	10619.7	9793.5	9002.5	8253.2	7640.1	7286.3	7128.1	7049.0	7040.2
22.5°	11505.2	11439.3	10514.2	9448.5	8450.9	7598.4	7099.6	6934.8	6895.2	6877.6	6884.2
25°	11870.0	11667.8	10358.2	8998.1	7754.4	6943.6	6704.0	6750.2	6802.9	6796.3	6796.3
27.5°	12272.1	11900.7	10118.7	8400.4	6983.1	6407.4	6436.0	6605.2	6684.3	6682.1	6679.9
30°	12788.5	12164.4	9813.3	7681.9	6262.4	6029.5	6203.1	6409.6	6517.3	6512.9	6515.1
32.5°	13423.5	12454.5	9398.0	6879.8	5741.6	5750.4	5950.4	6154.7	6280.0	6269.0	6271.2
35°	14166.2	12779.7	8835.5	6088.8	5396.6	5528.5	5686.7	5829.5	5948.2	5932.8	5917.4
37.5°	14974.8	13098.3	8088.4	5381.3	5115.4	5321.9	5453.8	5477.9	5532.9	5493.3	5464.8
40°	15743.9	13342.2	7125.9	4801.2	4831.9	5146.1	5231.8	5135.2	5036.3	5023.1	4983.5
42.5°	16414.0	13423.5	6152.5	4337.5	4533.1	4961.6	5014.3	4812.1	4634.2	4550.7	4515.5
45°	17121.6	13452.0	5245.0	3948.6	4245.2	4796.8	4853.9	4583.6	4333.1	4153.0	4093.6
47.5°	18046.7	13658.6	4539.7	3660.7	4025.5	4686.9	4768.2	4401.2	4076.0	3819.0	3764.0
50°	19257.4	14067.3	3966.2	3441.0	3882.7	4614.4	4706.7	4223.3	3865.1	3555.3	3500.3
52.5°	20602.2	14443.0	3502.5	3263.0	3744.2	4486.9	4627.6	4095.8	3667.3	3311.4	3252.0
55°	21542.6	14155.2	3129.0	3078.5	3564.1	4304.6	4517.7	3988.2	3383.9	3074.1	3021.3
57.5°	21722.8	13170.8	2845.5	2887.3	3346.5	4076.0	4348.5	3748.6	3230.1	2970.8	2915.9
60°	21230.6	11799.7	2634.6	2711.5	3113.6	3788.2	4032.1	3579.4	3082.9	2860.9	2814.8
62.5°	19993.5	10395.6	2478.6	2553.3	2896.1	3495.9	3834.3	3401.5	2933.4	2735.7	2689.5
65°	17495.1	8727.8	2329.2	2412.7	2693.9	3243.3	3656.4	3236.7	2786.2	2634.6	2590.7
67.5°	13205.9	6537.1	2188.5	2263.2	2513.7	3023.5	3463.0	3074.1	2643.4	2546.7	2494.0
70°	7776.3	4093.6	2028.1	2107.2	2324.8	2795.0	3256.4	2896.1	2465.4	2421.5	2353.3
72.5°	3619.0	2463.2	1845.8	1922.7	2087.5	2489.6	2990.6	2663.2	2254.5	2157.8	2065.5
75°	2160.0	1801.8	1630.4	1698.5	1815.0	2164.4	2656.6	2425.9	2054.5	1927.1	1830.4
77.5°	1615.0	1377.7	1393.1	1465.6	1560.1	1894.1	2353.3	2239.1	1900.7	1801.8	1735.9
80°	1162.4	1045.9	1136.0	1215.1	1314.0	1722.7	2254.5	2069.9	1718.3	1586.5	1524.9
82.5°	775.7	751.5	854.8	936.1	1032.7	1507.4	2118.2	1812.8	1467.8	1300.8	1164.6
85°	428.5	452.6	575.7	610.9	694.4	1061.3	1735.9	1456.8	1105.3	889.9	850.4
87.5°	178.0	208.7	309.8	298.8	369.2	632.8	1142.6	878.9	703.1	525.2	408.7
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)