

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: P319610

Luminaire Tested: **GAN-SA6C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319610
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-SA6C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 35381 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

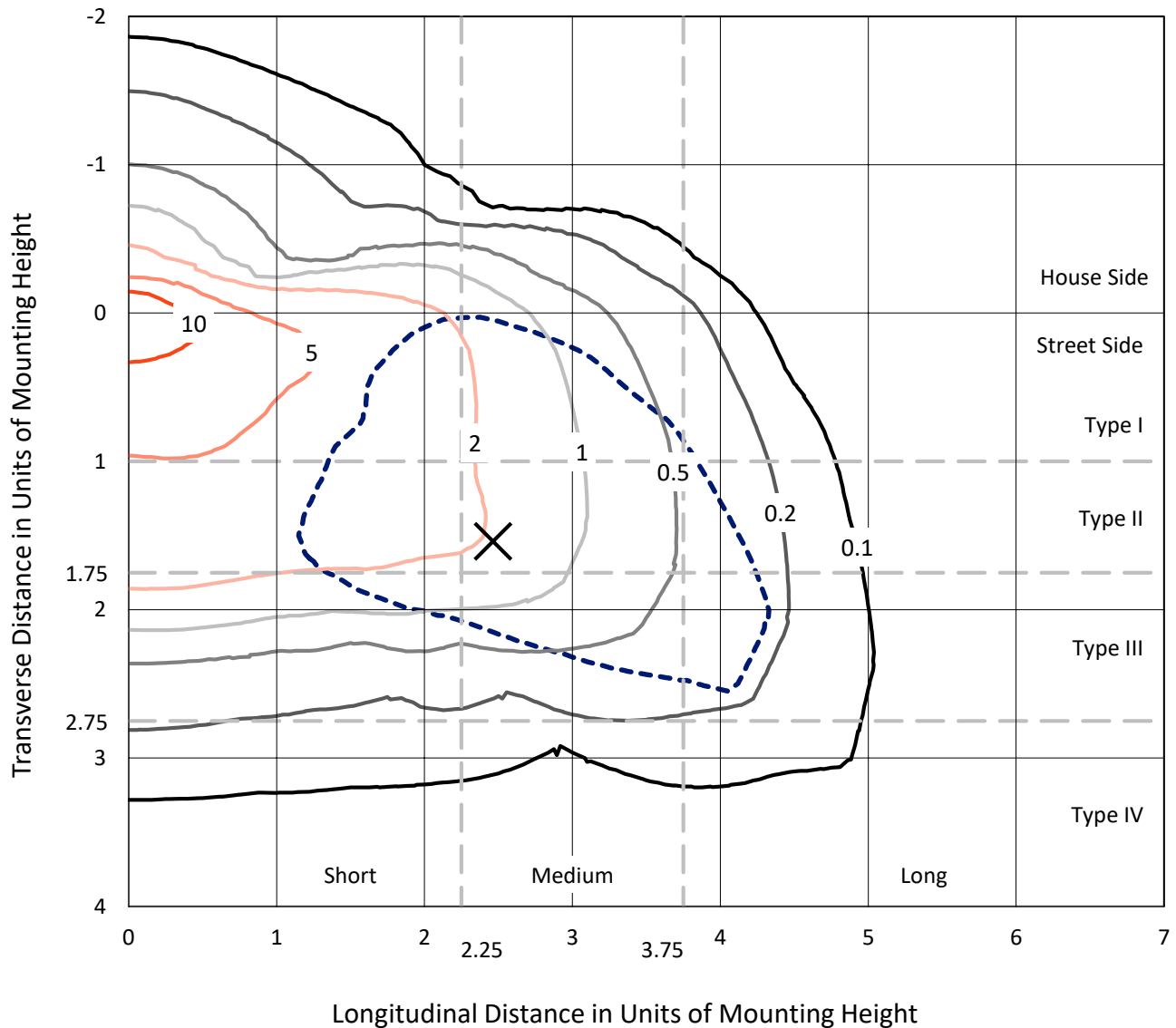
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

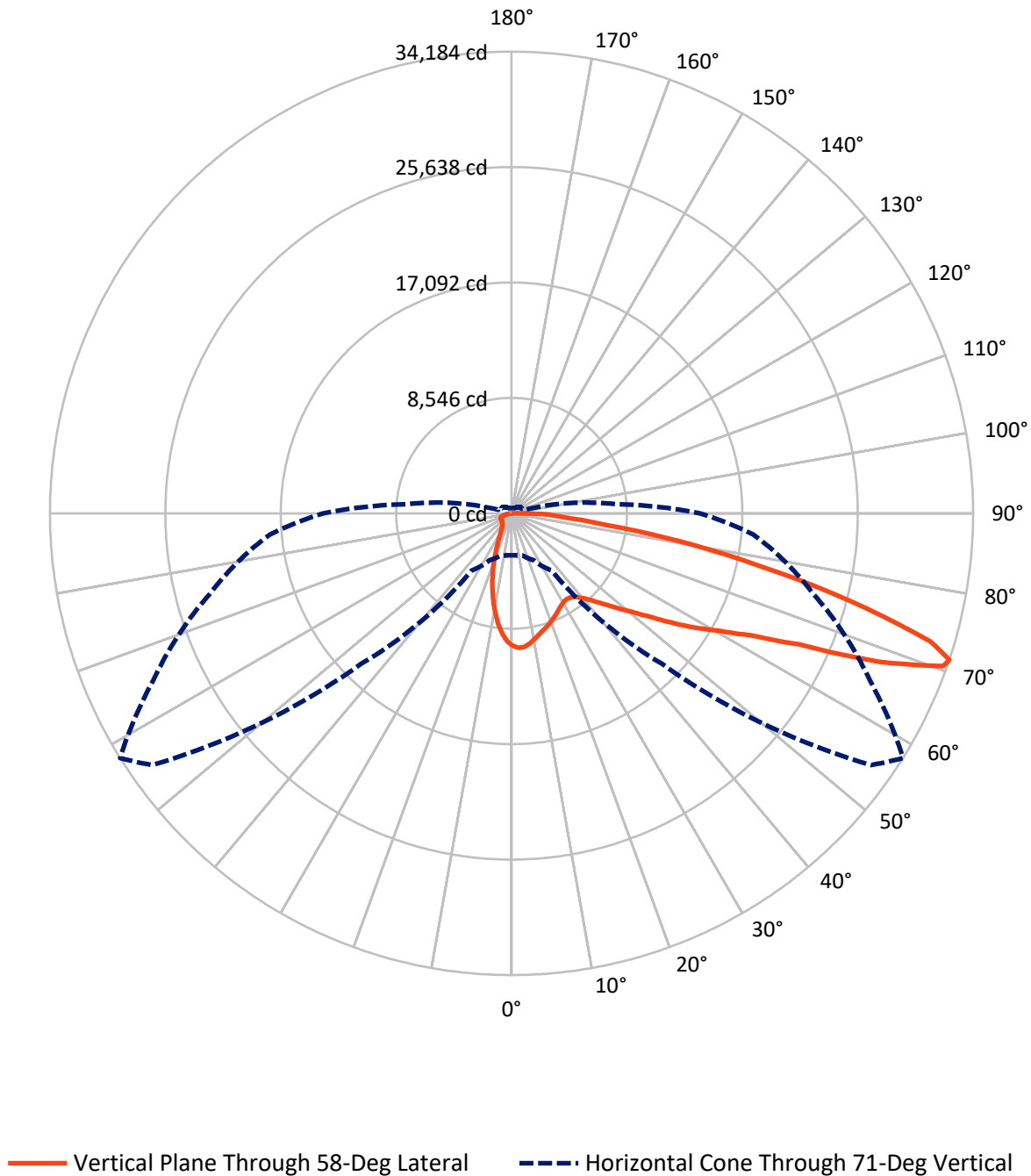
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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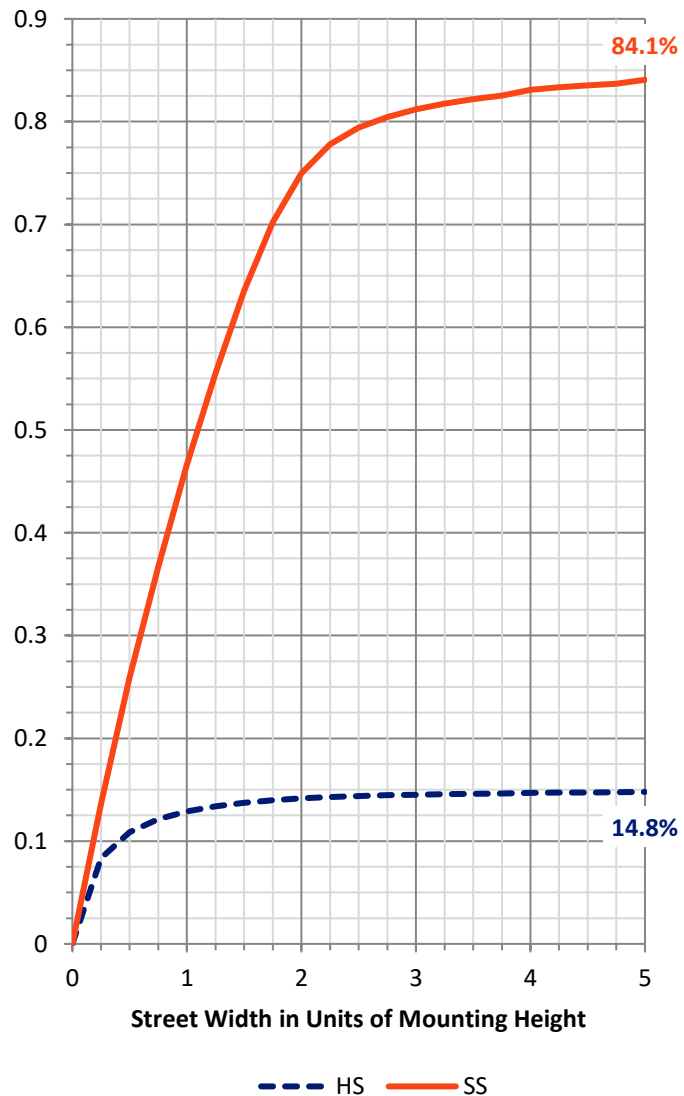
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5289.7	0.0	5289.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	30091.3	0.0	30091.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	35381.0	0.0	35381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.7	2.4
10°-20°	1880.5	5.3
20°-30°	2389.9	6.8
30°-40°	3044.3	8.6
40°-50°	4317.0	12.2
50°-60°	6680.7	18.9
60°-70°	9094.9	25.7
70°-80°	6067.3	17.1
80°-90°	1060.8	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°	35381.0	100.0
0°-180°	35381.0	100.0

Coefficient of Utilization



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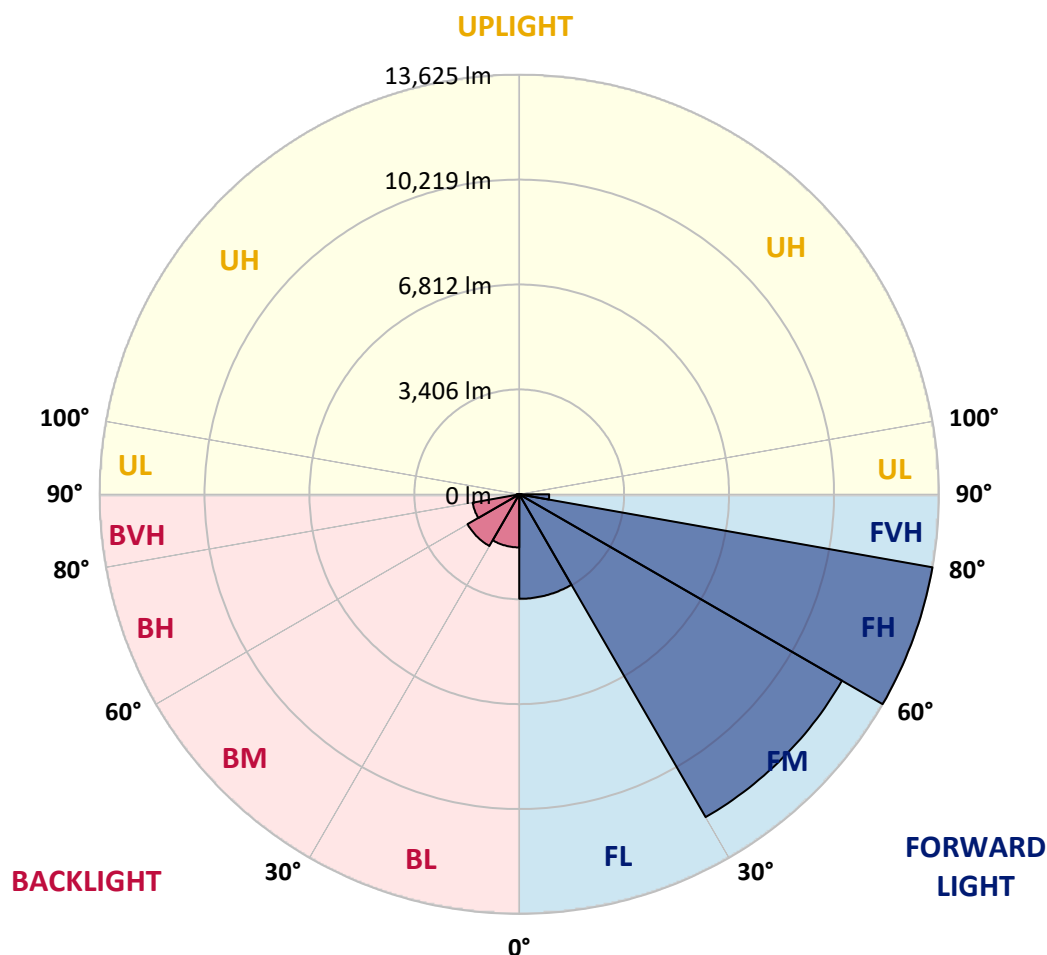
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3391.8	9.6			
FM	(30°-60°)	12102.0	34.2			
FH	(60°-80°)	13624.8	38.5			G5
FVH	(80°-90°)	972.6	2.7			G5
BL	(0°-30°)	1724.3	4.9	B3/2500		
BM	(30°-60°)	1939.9	5.5	B2/2500		
BH	(60°-80°)	1537.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	88.1	0.2			G1/100
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°	58°	65°	75°	85°
0°	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9
2.5°	10062.9	10049.4	10054.3	10044.5	10021.0	9997.6	9963.1	9969.3	9921.2	9849.7	9761.0
5°	9873.2	9868.2	9905.2	9926.1	9943.4	9929.8	9920.0	9932.3	9862.1	9763.5	9609.4
7.5°	9475.1	9420.8	9467.7	9537.9	9604.5	9655.0	9721.6	9730.2	9685.8	9582.3	9380.2
10°	8909.4	8857.6	8926.6	9036.3	9169.4	9290.2	9424.5	9449.2	9457.8	9364.2	9118.9
12.5°	8322.7	8283.3	8352.3	8506.4	8727.0	8913.1	9127.5	9164.5	9240.9	9178.1	8877.3
15°	7797.7	7782.9	7866.7	8018.3	8272.2	8556.9	8866.2	8934.0	9063.4	9042.5	8688.8
17.5°	7344.2	7340.5	7404.6	7563.5	7844.5	8204.4	8606.2	8720.8	8913.1	8937.7	8533.5
20°	7006.5	6999.1	7043.4	7160.5	7450.2	7858.1	8325.2	8482.9	8760.3	8846.5	8373.3
22.5°	6825.3	6824.1	6825.3	6880.8	7117.4	7497.0	8051.6	8243.9	8611.1	8773.8	8195.8
25°	6794.5	6790.8	6763.7	6757.5	6891.9	7195.0	7780.5	7992.4	8469.4	8723.3	8026.9
27.5°	6874.6	6879.5	6843.8	6785.9	6813.0	6996.6	7545.1	7771.8	8356.0	8713.4	7909.9
30°	7041.0	7038.5	7007.7	6947.3	6894.3	6922.7	7377.4	7604.2	8279.6	8756.6	7829.8
32.5°	7224.6	7238.2	7232.0	7198.7	7119.9	7006.5	7326.9	7548.8	8257.4	8860.1	7795.2
35°	7445.2	7460.0	7504.4	7530.3	7437.8	7255.4	7435.4	7627.6	8321.5	9054.8	7850.7
37.5°	7654.7	7692.9	7817.4	7927.1	7848.2	7644.9	7723.8	7860.6	8519.9	9361.7	7999.8
40°	7896.3	7929.6	8132.9	8365.9	8353.5	8142.8	8188.4	8279.6	8869.9	9801.7	8269.7
42.5°	8134.2	8200.7	8495.3	8825.6	8920.5	8734.4	8807.1	8855.1	9362.9	10384.6	8740.5
45°	8450.9	8522.4	8931.6	9329.6	9551.5	9446.7	9562.6	9581.1	9982.8	11178.3	9424.5
47.5°	8930.3	9011.7	9488.6	9906.4	10245.4	10256.4	10447.5	10440.1	10756.8	12086.6	10286.0
50°	9677.2	9794.3	10185.0	10575.6	10987.3	11216.5	11471.6	11435.9	11684.9	13054.1	11278.1
52.5°	10655.8	10710.0	10999.6	11288.0	11799.5	12313.4	12679.4	12647.4	12737.4	14048.7	12404.6
55°	11670.1	11710.7	11830.3	11988.0	12675.7	13513.8	14287.8	14237.3	14009.3	15081.5	13517.5
57.5°	12582.1	12664.6	12747.2	12812.5	13558.2	14768.4	15933.1	15936.8	15389.6	16195.6	14667.4
60°	12723.8	12796.5	13342.5	13857.7	15067.9	16442.1	17694.3	17657.3	16818.0	17404.6	15949.1
62.5°	11247.3	11411.2	12323.3	13693.7	16522.2	19503.5	19941.0	19895.4	18526.2	18894.7	17441.6
65°	8060.2	8246.3	9346.9	11406.3	15817.3	22876.7	23995.8	23382.0	20855.5	20727.3	19189.2
67.5°	4650.0	4694.4	5171.4	6825.3	12043.5	23053.0	30181.5	29322.4	24472.7	22806.5	20044.6
70°	3438.5	3437.3	3550.7	4200.2	6517.2	18814.6	33123.3	33893.6	28281.0	23490.5	18835.5
71°	3109.5	3113.2	3240.1	3823.1	5161.5	15748.2	32498.5	34184.4	29284.2	23152.8	17960.5
72.5°	2659.6	2672.0	2848.2	3428.7	4341.9	10860.3	29806.8	32439.3	29760.0	22319.7	16591.2
75°	2017.5	2045.9	2289.9	2890.1	3968.5	5507.8	21876.0	25903.6	26437.3	19694.5	12328.2
77.5°	1439.5	1471.5	1747.6	2430.4	3772.5	4150.9	14650.1	18894.7	19455.4	12621.5	5560.8
80°	909.5	947.8	1156.0	1933.7	3544.5	3941.4	9206.4	12700.4	10608.9	4038.7	1414.9
82.5°	533.7	563.2	717.3	1263.3	2895.0	3795.9	5416.6	7039.8	4128.7	1220.1	643.3
85°	309.3	322.9	447.4	804.8	2102.6	3582.7	3979.6	3935.2	1792.0	596.5	304.4
87.5°	144.2	160.2	265.0	420.3	1167.1	2596.8	3145.2	2717.6	1114.1	279.8	143.0
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°	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9	9802.9
2.5°	9717.9	9696.9	9609.4	9531.8	9450.4	9344.4	9227.3	9212.6	9141.1	9154.6	9130.0
5°	9525.6	9472.6	9261.9	9070.8	8845.3	8643.2	8423.8	8322.7	8177.3	8167.4	8130.5
7.5°	9250.8	9152.2	8825.6	8463.2	8100.9	7755.8	7414.4	7190.1	6960.9	6863.5	6854.9
10°	8941.4	8773.8	8293.2	7757.0	7234.5	6730.4	6242.4	5881.2	5555.9	5401.8	5395.7
12.5°	8648.1	8400.4	7741.0	7011.4	6296.6	5643.4	4974.2	4499.7	4091.7	3954.9	3897.0
15°	8399.1	8050.4	7203.7	6270.7	5403.1	4496.0	3734.3	3235.2	2858.1	2727.4	2702.8
17.5°	8157.6	7709.0	6652.8	5522.6	4473.8	3476.7	2713.9	2342.9	2142.0	2089.0	2087.8
20°	7917.3	7357.7	6077.2	4757.3	3575.3	2600.5	2086.5	1920.2	1852.4	1846.2	1836.3
22.5°	7644.9	6985.5	5472.1	3989.4	2790.3	2044.6	1773.5	1706.9	1698.3	1720.5	1720.5
25°	7389.8	6615.8	4858.3	3237.6	2170.3	1705.7	1583.7	1570.1	1593.6	1633.0	1636.7
27.5°	7151.9	6259.6	4259.3	2569.7	1739.0	1502.4	1451.8	1467.8	1509.8	1555.4	1556.6
30°	6955.9	5923.2	3677.6	2024.9	1469.1	1350.8	1342.1	1374.2	1419.8	1455.5	1464.1
32.5°	6804.4	5636.0	3115.6	1628.1	1292.8	1237.4	1244.8	1271.9	1300.2	1320.0	1333.5
35°	6734.1	5389.5	2596.8	1372.9	1180.7	1149.9	1159.7	1174.5	1186.8	1201.6	1212.7
37.5°	6746.4	5198.5	2133.4	1214.0	1105.5	1089.5	1089.5	1089.5	1089.5	1096.9	1098.1
40°	6861.0	5088.8	1756.2	1112.9	1055.0	1037.7	1024.2	1011.8	1002.0	1006.9	1004.4
42.5°	7154.4	5078.9	1480.2	1048.8	1014.3	986.0	958.8	941.6	929.3	934.2	936.7
45°	7652.3	5202.2	1294.1	1003.2	976.1	933.0	898.5	880.0	871.3	887.4	889.8
47.5°	8296.8	5470.8	1180.7	969.9	940.4	883.7	846.7	829.4	831.9	855.3	861.5
50°	9127.5	5907.1	1126.5	949.0	915.7	841.8	803.6	788.8	796.2	829.4	836.8
52.5°	10039.5	6535.7	1132.6	942.8	899.7	811.0	770.3	753.0	765.4	796.2	802.3
55°	11092.0	7291.2	1234.9	951.5	876.3	791.2	743.2	713.6	723.4	751.8	756.7
57.5°	12261.6	8156.3	1440.7	949.0	846.7	772.7	714.8	670.5	677.8	695.1	700.0
60°	13479.3	9201.5	1759.9	956.4	833.1	750.6	676.6	621.2	618.7	633.5	635.9
62.5°	14941.0	10410.5	2124.7	961.3	841.8	722.2	626.1	571.9	564.5	568.2	570.6
65°	16447.0	11285.5	1987.9	941.6	868.9	698.8	581.7	523.8	510.2	507.8	509.0
67.5°	16493.9	10347.6	1393.9	902.2	880.0	686.5	548.4	483.1	460.9	452.3	451.1
70°	14791.9	8406.5	1085.8	860.2	835.6	666.8	517.6	449.8	416.6	403.0	401.8
71°	13961.2	7738.5	1029.1	839.3	802.3	647.0	504.1	435.1	400.5	385.8	383.3
72.5°	12658.5	6937.5	960.1	806.0	738.2	596.5	478.2	414.1	378.4	361.1	357.4
75°	9084.4	4536.6	824.5	718.5	611.3	475.7	419.0	372.2	341.4	320.4	318.0
77.5°	3500.2	1805.5	623.6	597.7	468.3	372.2	345.1	321.7	299.5	278.5	277.3
80°	1082.1	807.3	454.8	449.8	338.9	277.3	268.7	262.5	253.9	231.7	226.8
82.5°	578.0	463.4	313.0	290.9	221.8	184.9	194.7	197.2	198.4	175.0	172.5
85°	276.1	245.3	176.2	165.1	129.4	103.5	119.5	129.4	130.6	107.2	99.8
87.5°	131.9	128.2	82.6	62.9	48.1	34.5	41.9	51.8	56.7	40.7	35.7
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)