

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: P323442

Luminaire Tested: **GAN-SA8B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32721 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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



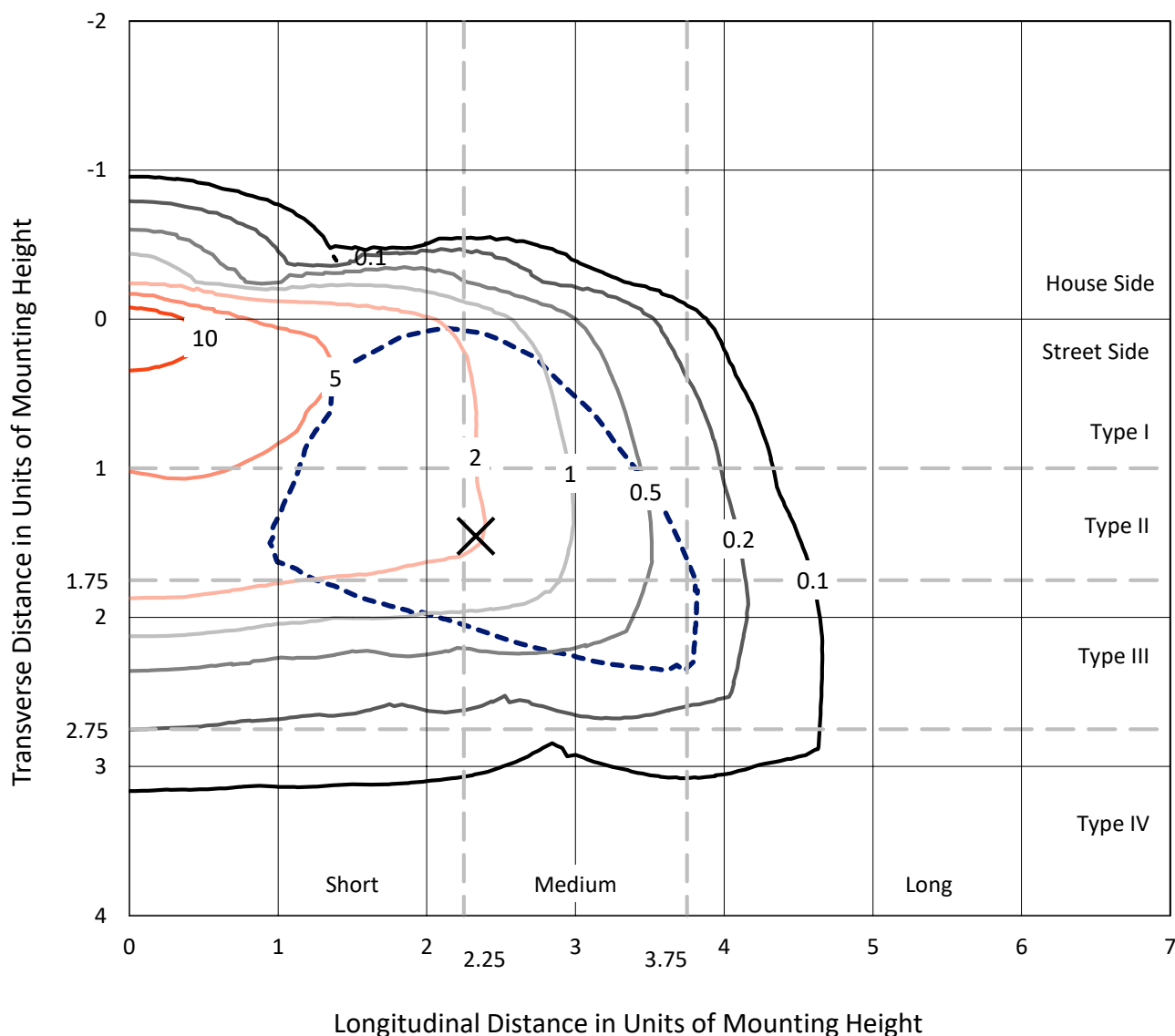
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

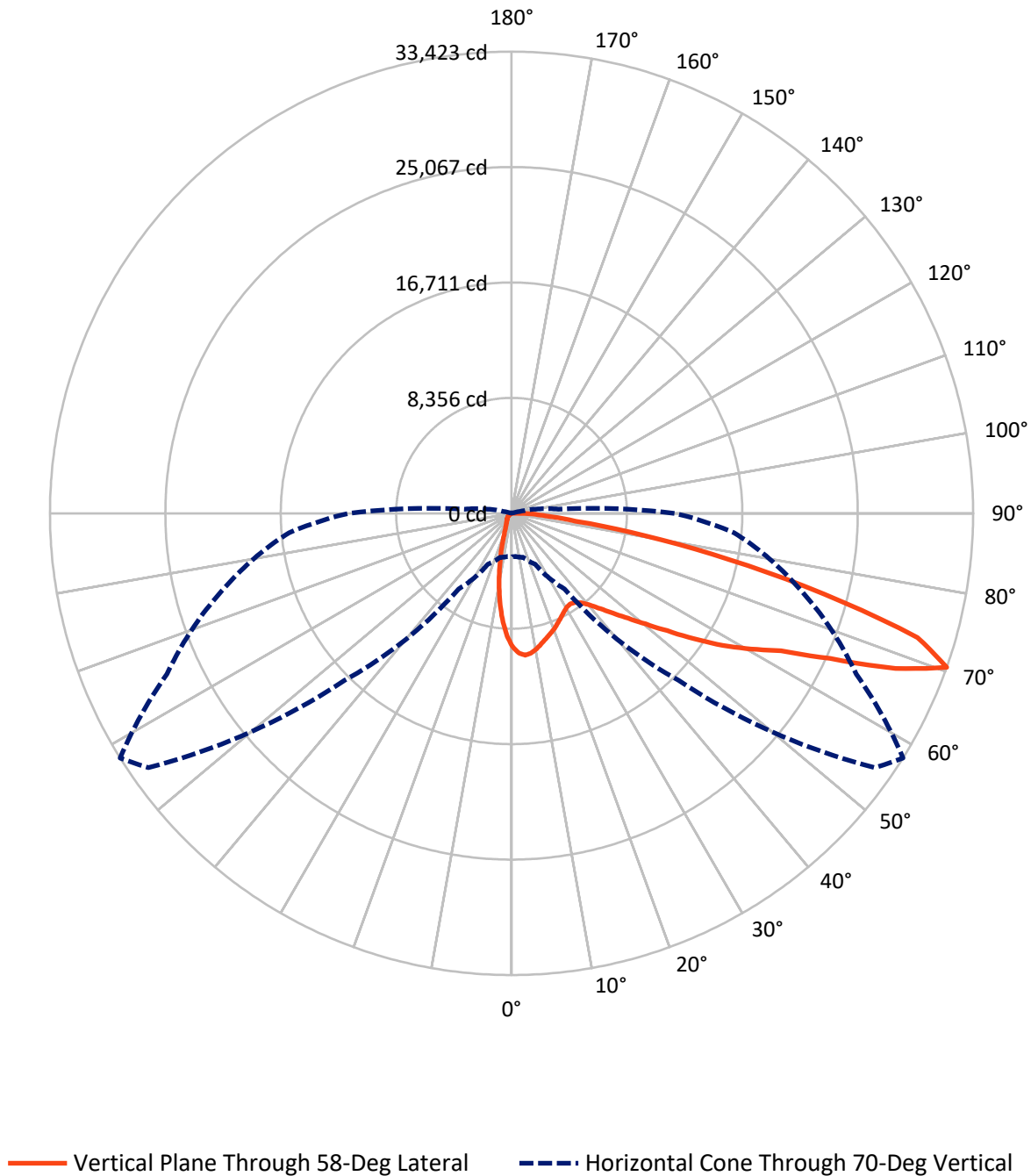
--- 1/2 Max cd



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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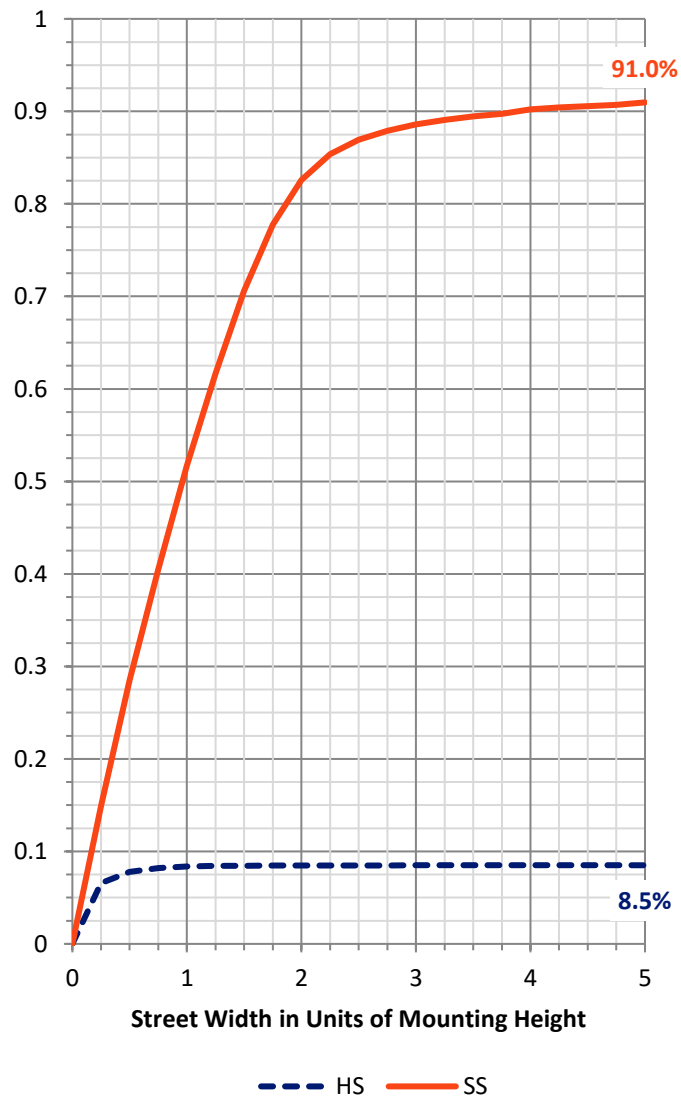
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2800.2	0.0	2800.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	29920.8	0.0	29920.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	32721.0	0.0	32721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.4	2.4
10°-20°	1658.9	5.1
20°-30°	2180.8	6.7
30°-40°	2888.3	8.8
40°-50°	4317.1	13.2
50°-60°	6915.8	21.1
60°-70°	8717.3	26.6
70°-80°	4702.1	14.4
80°-90°	550.4	1.7
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°	32721.0	100.0
0°-180°	32721.0	100.0

Coefficient of Utilization



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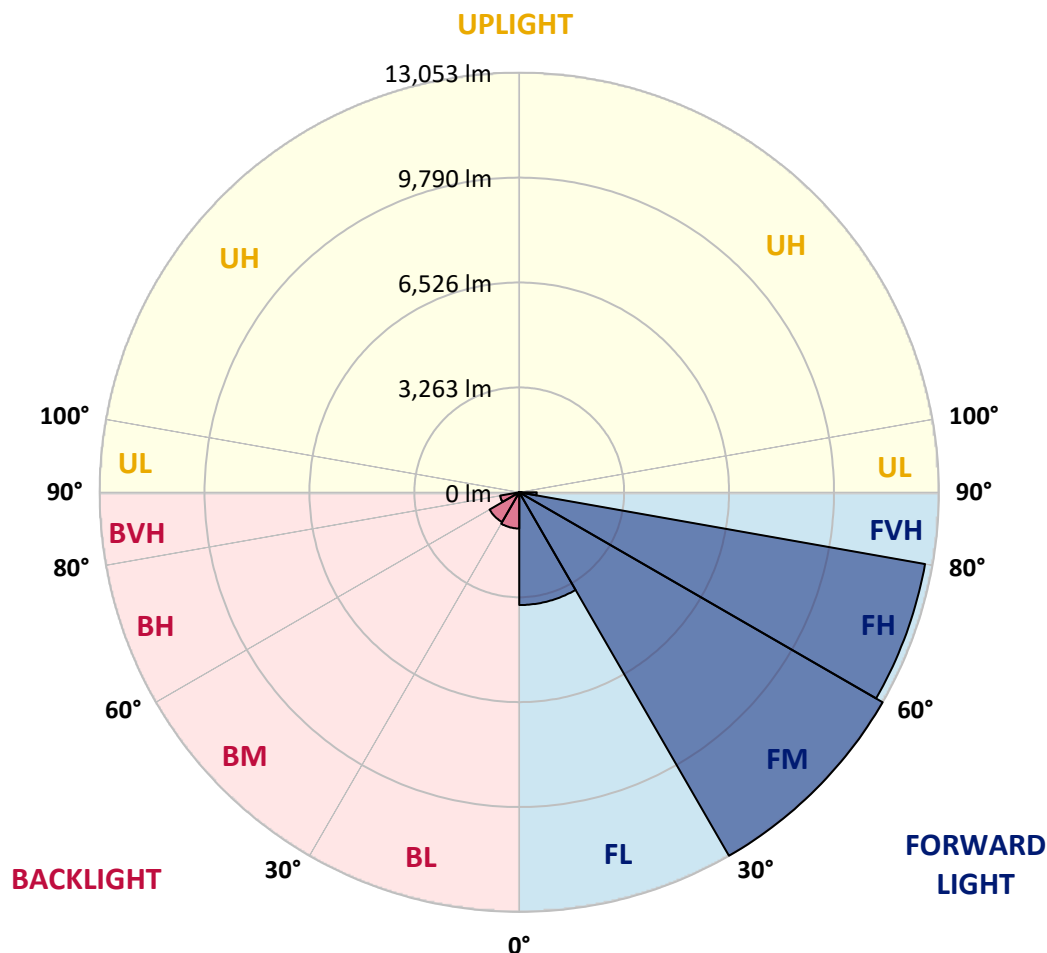
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3505.1	10.7			
FM	(30°-60°)	13052.9	39.9			
FH	(60°-80°)	12817.2	39.2			G5
FVH	(80°-90°)	545.6	1.7			G4/750
BL	(0°-30°)	1125.0	3.4	B3/2500		
BM	(30°-60°)	1068.2	3.3	B2/2500		
BH	(60°-80°)	602.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.8	0.0			G0/10
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°	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6
2.5°	10467.0	10441.2	10431.6	10415.3	10352.7	10291.5	10170.4	10136.4	10060.2	9879.2	9687.4
5°	10475.2	10473.8	10502.4	10495.6	10473.8	10445.2	10358.2	10313.3	10184.0	9925.5	9574.5
7.5°	9970.4	9996.3	10060.2	10111.9	10171.8	10249.3	10260.2	10216.7	10110.5	9831.6	9366.3
10°	9292.8	9333.6	9423.4	9525.5	9682.0	9837.1	9975.8	9970.4	9933.7	9658.8	9116.0
12.5°	8613.9	8661.5	8764.9	8915.9	9137.7	9390.8	9638.4	9672.4	9733.7	9503.7	8884.7
15°	8019.3	8060.1	8162.2	8347.2	8622.1	8962.2	9325.5	9388.1	9545.9	9382.6	8691.4
17.5°	7514.5	7540.4	7615.2	7820.7	8139.0	8551.3	9023.4	9145.9	9381.3	9287.4	8524.1
20°	7162.1	7166.2	7215.2	7359.4	7677.8	8139.0	8710.5	8886.0	9207.1	9205.7	8351.3
22.5°	6988.0	6974.4	6983.9	7066.9	7300.9	7745.8	8397.6	8605.7	9050.6	9136.4	8175.8
25°	6955.3	6944.4	6917.2	6928.1	7069.6	7401.6	8081.9	8322.7	8913.2	9094.2	8023.4
27.5°	7057.4	7068.3	7022.0	6973.0	6983.9	7178.5	7801.6	8080.5	8801.7	9094.2	7915.9
30°	7262.8	7268.3	7234.3	7170.3	7084.6	7115.9	7607.1	7886.0	8745.9	9156.8	7847.9
32.5°	7490.0	7520.0	7515.9	7464.2	7341.7	7215.2	7560.8	7815.2	8741.8	9295.5	7841.1
35°	7771.7	7805.7	7862.8	7852.0	7724.1	7515.9	7718.6	7918.6	8822.1	9524.1	7914.5
37.5°	8071.0	8122.7	8245.2	8303.7	8220.7	7985.3	8072.4	8215.2	9037.0	9894.2	8101.0
40°	8360.8	8419.3	8642.5	8872.4	8809.8	8567.6	8608.5	8722.7	9419.4	10426.2	8454.7
42.5°	8645.2	8732.3	9060.2	9438.4	9513.2	9320.0	9341.8	9433.0	9986.7	11158.2	9033.0
45°	8985.3	9083.3	9569.0	10035.7	10235.7	10151.4	10243.9	10303.7	10728.2	12125.6	9812.6
47.5°	9484.7	9597.6	10193.5	10725.5	11076.6	11131.0	11317.4	11356.8	11665.7	13252.1	10828.9
50°	10458.9	10490.1	11028.9	11511.9	12018.1	12344.6	12556.9	12586.8	12800.4	14483.5	12098.4
52.5°	11684.7	11705.2	12009.9	12333.7	12909.3	13576.0	14072.6	14114.8	14159.7	15683.5	13351.5
55°	12902.5	12899.8	13101.1	13291.6	13950.1	14918.9	15996.5	16022.3	15699.8	16822.3	14309.3
57.5°	13663.0	13736.5	14042.6	14287.6	15207.3	16449.5	17944.8	18040.1	17317.6	17665.9	15256.3
60°	13420.9	13456.2	14135.2	15041.3	16773.3	18625.1	19916.3	19940.8	18534.0	18508.1	16453.6
62.5°	11434.4	11453.4	12520.1	14388.2	17566.6	21447.0	22294.6	21896.0	19932.6	19676.8	17886.3
65°	7837.0	7960.8	8852.0	11160.9	16109.4	23217.1	25976.4	25316.5	22064.7	21361.3	19181.6
67.5°	4615.1	4589.3	5030.1	6730.8	11831.7	22041.6	30633.7	29977.9	24972.3	22489.2	18802.0
70°	3152.5	3134.8	3303.5	4075.0	6679.1	17098.5	32099.0	33422.9	27539.7	21730.0	16181.5
72.5°	2250.4	2259.9	2508.9	3166.1	4193.3	9962.2	27603.6	30737.1	26735.6	18943.5	12299.7
75°	1527.9	1553.8	1910.3	2597.4	3676.3	5068.2	19588.4	23365.4	21770.8	13767.8	7069.6
77.5°	821.8	850.4	1270.8	2092.6	3323.9	3521.2	12600.4	16080.8	13675.3	6189.3	2049.0
80°	342.9	359.2	594.6	1521.1	2872.2	3092.6	7413.9	9751.3	5827.4	1220.4	457.2
82.5°	148.3	156.5	247.6	907.5	2147.0	2611.0	3925.3	4691.3	1766.0	268.0	229.9
85°	28.6	29.9	102.0	480.3	1370.1	1473.5	2544.3	2494.0	793.2	115.7	167.4
87.5°	0.0	0.0	24.5	151.0	402.7	802.7	1552.4	1533.4	269.4	55.8	62.6
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°	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6	9665.6
2.5°	9589.4	9495.6	9298.3	9054.7	8868.3	8662.9	8499.6	8292.8	8203.0	8207.1	8158.1
5°	9374.5	9181.3	8744.5	8193.5	7769.0	7330.9	6954.0	6578.5	6356.7	6284.6	6216.5
7.5°	9067.0	8760.8	8064.2	7215.2	6496.8	5794.8	5183.8	4646.4	4306.3	4140.3	4079.0
10°	8720.0	8290.1	7281.9	6163.5	5137.6	4187.9	3396.0	2707.6	2432.7	2246.3	2198.7
12.5°	8415.2	7832.9	6517.2	5084.5	3866.8	2721.2	1966.1	1537.5	1351.1	1277.6	1265.3
15°	8128.2	7405.7	5781.1	4107.6	2677.6	1674.9	1250.4	1104.8	1061.3	1049.0	1049.0
17.5°	7857.4	6998.9	5061.4	3145.7	1771.5	1174.2	1035.4	1002.8	989.1	987.8	989.1
20°	7574.4	6592.1	4353.9	2304.8	1236.8	994.6	956.5	938.8	934.7	934.7	934.7
22.5°	7303.6	6185.2	3665.4	1646.3	991.9	907.5	888.5	876.2	872.1	870.8	868.1
25°	7043.8	5798.8	2993.3	1163.3	870.8	831.3	815.0	798.7	786.4	779.6	775.5
27.5°	6830.2	5454.6	2367.4	933.4	786.4	752.4	732.0	707.5	677.6	664.0	658.5
30°	6660.1	5140.3	1824.6	787.8	707.5	673.5	642.2	600.0	556.5	533.4	532.0
32.5°	6526.7	4831.5	1385.1	696.6	636.8	594.6	549.7	496.6	446.3	420.4	419.1
35°	6461.4	4559.3	1058.5	630.0	574.2	521.1	465.3	406.8	357.8	333.3	330.6
37.5°	6505.0	4329.4	825.9	574.2	521.1	459.9	394.6	333.3	289.8	268.0	266.7
40°	6664.2	4182.5	670.8	526.5	476.2	401.4	330.6	273.5	236.7	219.1	217.7
42.5°	7003.0	4128.0	572.8	487.1	432.7	347.0	274.8	225.9	191.8	179.6	176.9
45°	7569.0	4208.3	506.1	449.0	387.8	295.2	227.2	185.0	155.1	145.6	144.2
47.5°	8322.7	4419.2	458.5	412.3	347.0	249.0	189.1	149.7	126.5	117.0	115.7
50°	9294.2	4753.9	419.1	375.5	308.9	210.9	156.5	118.4	98.0	91.2	91.2
52.5°	10351.4	5152.6	383.7	341.5	270.8	175.5	126.5	91.2	77.6	69.4	69.4
55°	11224.9	5500.9	345.6	315.7	224.5	145.6	96.6	69.4	57.1	53.1	53.1
57.5°	12097.0	5872.3	302.1	270.8	179.6	118.4	73.5	51.7	42.2	39.5	39.5
60°	13227.7	6326.7	259.9	220.4	141.5	89.8	54.4	36.7	31.3	29.9	29.9
62.5°	14471.2	6593.4	221.8	176.9	110.2	66.7	39.5	24.5	23.1	23.1	21.8
65°	15231.8	6216.5	186.4	141.5	85.7	50.3	25.9	17.7	20.4	19.0	16.3
67.5°	14261.7	4866.8	152.4	110.2	66.7	38.1	16.3	12.2	21.8	17.7	13.6
70°	11808.6	3406.9	118.4	77.6	53.1	32.7	10.9	8.2	23.1	17.7	10.9
72.5°	8837.0	2280.3	93.9	51.7	39.5	28.6	9.5	4.1	20.4	15.0	9.5
75°	4828.7	918.4	74.8	32.7	24.5	20.4	6.8	2.7	13.6	10.9	6.8
77.5°	1270.8	242.2	54.4	21.8	13.6	8.2	4.1	1.4	6.8	5.4	2.7
80°	323.8	93.9	35.4	15.0	9.5	4.1	0.0	0.0	1.4	0.0	0.0
82.5°	172.8	39.5	21.8	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	130.6	25.9	12.2	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)