

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: P323603

Luminaire Tested: **GAN-SA9B-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323603
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-SA9B-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 43645 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

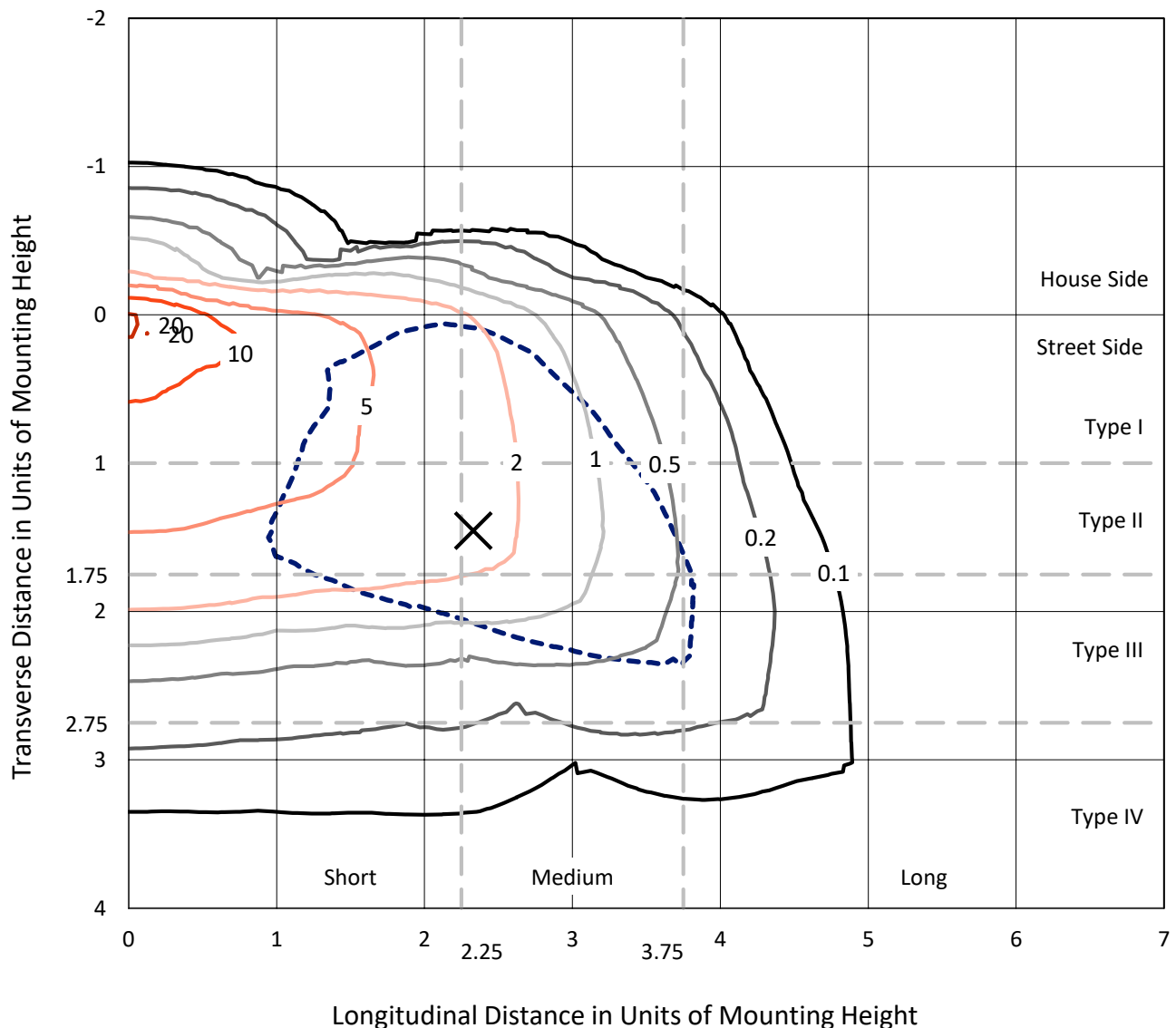
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

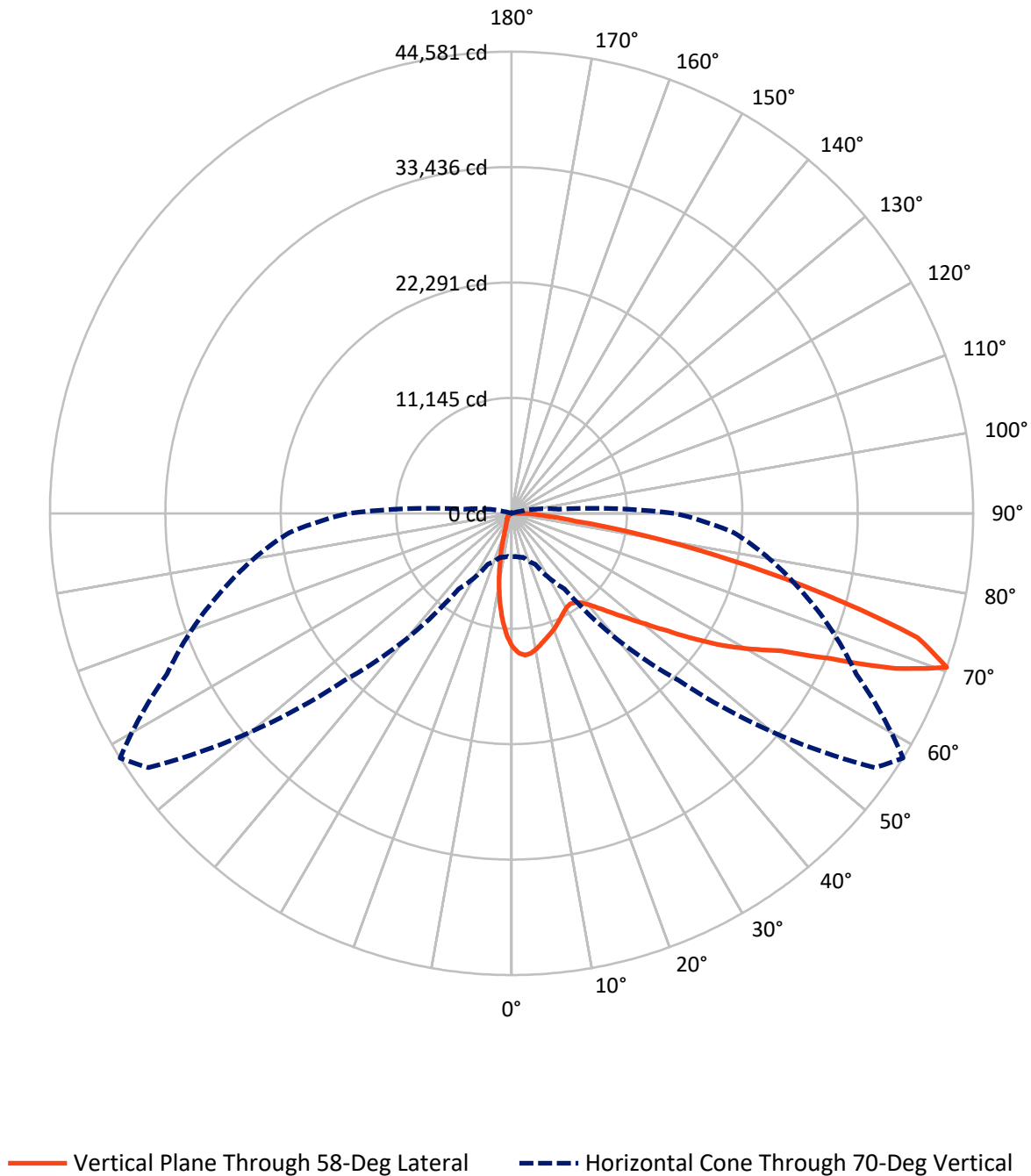
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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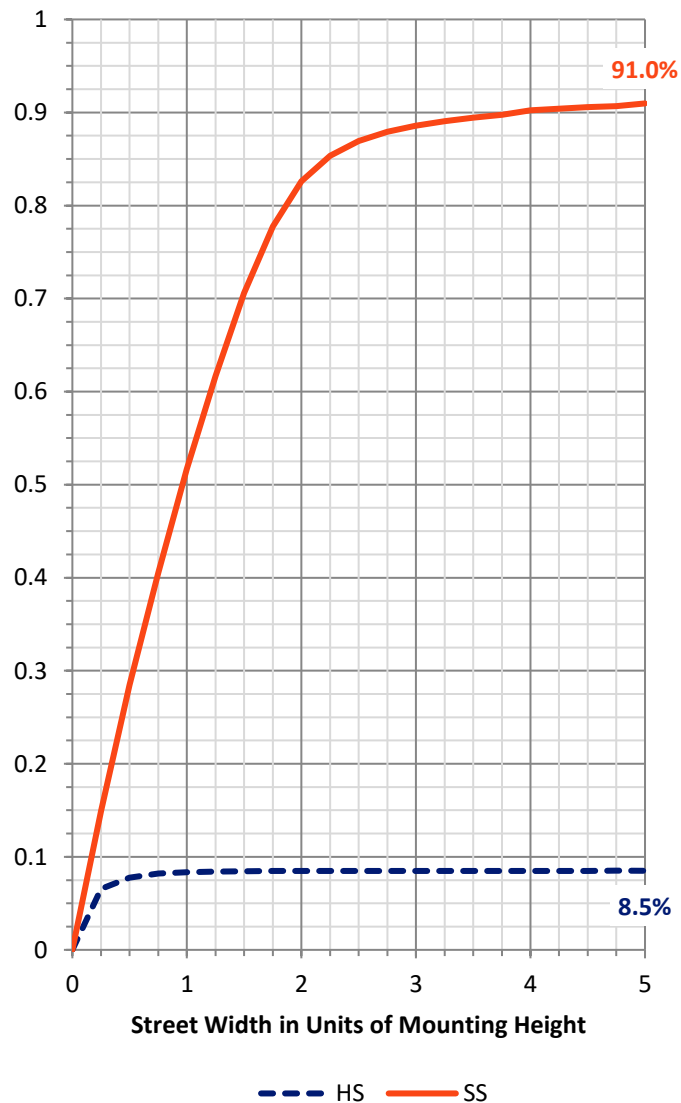
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3735.0	0.0	3735.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	39909.9	0.0	39909.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	43645.0	0.0	43645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.3	2.4
10°-20°	2212.7	5.1
20°-30°	2908.9	6.7
30°-40°	3852.5	8.8
40°-50°	5758.4	13.2
50°-60°	9224.7	21.1
60°-70°	11627.6	26.6
70°-80°	6271.9	14.4
80°-90°	734.1	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°	43645.0	100.0
0°-180°	43645.0	100.0

Coefficient of Utilization



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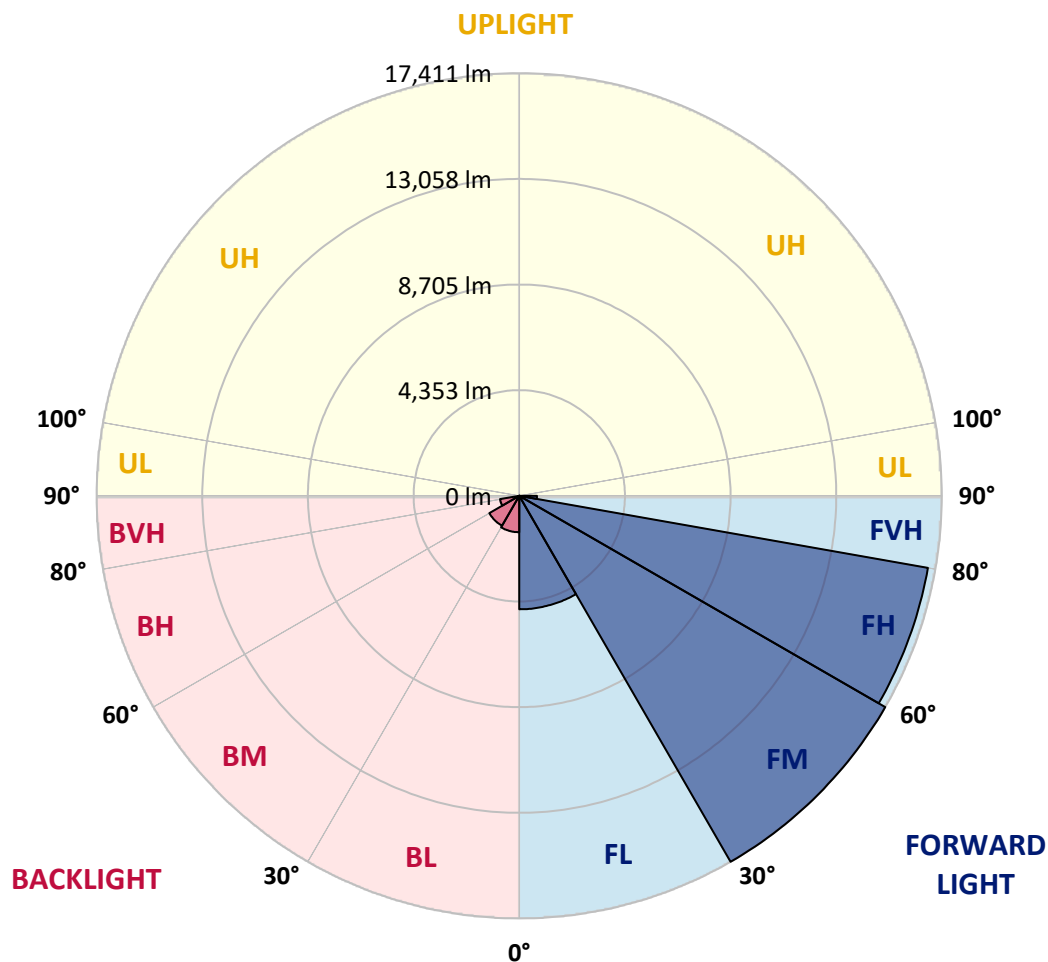
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4675.3	10.7			
FM	(30°-60°)	17410.7	39.9			
FH	(60°-80°)	17096.2	39.2			G5
FVH	(80°-90°)	727.8	1.7			G4/750
BL	(0°-30°)	1500.6	3.4	B3/2500		
BM	(30°-60°)	1424.9	3.3	B2/2500		
BH	(60°-80°)	803.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.3	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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	13961.5	13927.0	13914.3	13892.5	13809.0	13727.3	13565.8	13520.5	13418.8	13177.5	12921.6
5°	13972.3	13970.5	14008.6	13999.6	13970.5	13932.4	13816.3	13756.4	13584.0	13239.2	12770.9
7.5°	13299.0	13333.5	13418.8	13487.8	13567.6	13671.1	13685.6	13627.5	13486.0	13113.9	12493.3
10°	12395.3	12449.7	12569.5	12705.6	12914.3	13121.2	13306.3	13299.0	13250.0	12883.5	12159.3
12.5°	11489.7	11553.2	11691.1	11892.6	12188.4	12525.9	12856.2	12901.6	12983.3	12676.6	11850.8
15°	10696.6	10751.0	10887.1	11134.0	11500.6	11954.3	12438.8	12522.3	12732.8	12515.0	11593.1
17.5°	10023.3	10057.8	10157.6	10431.6	10856.3	11406.2	12035.9	12199.3	12513.2	12388.0	11369.9
20°	9553.2	9558.7	9624.0	9816.4	10241.1	10856.3	11618.5	11852.6	12280.9	12279.1	11139.4
22.5°	9320.9	9302.8	9315.5	9426.2	9738.4	10331.8	11201.1	11478.8	12072.2	12186.6	10905.3
25°	9277.4	9262.9	9226.6	9241.1	9429.8	9872.7	10780.1	11101.3	11888.9	12130.3	10702.0
27.5°	9413.5	9428.0	9366.3	9301.0	9315.5	9575.0	10406.2	10778.3	11740.1	12130.3	10558.7
30°	9687.5	9694.8	9649.4	9564.1	9449.8	9491.5	10146.7	10518.7	11665.7	12213.8	10467.9
32.5°	9990.6	10030.5	10025.1	9956.1	9792.8	9624.0	10085.0	10424.4	11660.3	12398.9	10458.8
35°	10366.3	10411.7	10487.9	10473.4	10302.8	10025.1	10295.5	10562.3	11767.3	12703.8	10556.8
37.5°	10765.5	10834.5	10997.8	11075.9	10965.2	10651.2	10767.4	10957.9	12054.1	13197.4	10805.5
40°	11152.1	11230.1	11527.8	11834.5	11751.0	11428.0	11482.4	11634.9	12564.0	13907.0	11277.3
42.5°	11531.4	11647.6	12084.9	12589.5	12689.3	12431.6	12460.6	12582.2	13320.8	14883.4	12048.6
45°	11985.1	12115.8	12763.7	13386.2	13652.9	13540.4	13663.8	13743.7	14309.9	16173.7	13088.5
47.5°	12651.2	12801.8	13596.7	14306.3	14774.5	14847.1	15095.7	15148.4	15560.3	17676.4	14444.2
50°	13950.6	13992.3	14711.0	15355.2	16030.4	16465.9	16749.0	16789.0	17073.9	19318.8	16137.4
52.5°	15585.7	15613.0	16019.5	16451.4	17219.1	18108.3	18770.7	18827.0	18886.9	20919.5	17808.9
55°	17210.0	17206.4	17475.0	17729.0	18607.4	19899.6	21336.9	21371.4	20941.3	22438.5	19086.5
57.5°	18224.5	18322.5	18730.8	19057.5	20284.3	21941.3	23935.7	24062.8	23099.1	23563.7	20349.6
60°	17901.4	17948.6	18854.2	20062.9	22373.2	24843.2	26565.4	26598.1	24721.6	24687.1	21946.7
62.5°	15251.8	15277.2	16700.0	19191.8	23431.2	28607.1	29737.7	29206.0	26587.2	26246.0	23857.7
65°	10453.4	10618.5	11807.3	14887.0	21487.5	30968.2	34648.7	33768.5	29431.0	28492.8	25585.4
67.5°	6155.9	6121.4	6709.4	8977.9	15781.7	29400.2	40860.8	39986.1	33309.3	29997.3	25079.1
70°	4205.0	4181.4	4406.4	5435.4	8909.0	22806.9	42815.4	44581.2	36733.9	28984.6	21583.7
72.5°	3001.7	3014.4	3346.5	4223.1	5593.3	13288.2	36819.2	40998.7	35661.3	25267.8	16406.0
75°	2038.0	2072.5	2548.0	3464.5	4903.7	6760.2	26128.1	31166.0	29039.0	18364.2	9429.8
77.5°	1096.2	1134.3	1695.0	2791.2	4433.6	4696.8	16807.1	21449.4	18240.8	8255.6	2733.1
80°	457.3	479.1	793.1	2029.0	3831.1	4125.1	9889.0	13006.9	7772.9	1627.9	609.8
82.5°	197.8	208.7	330.3	1210.5	2863.8	3482.7	5235.8	6257.5	2355.6	357.5	306.7
85°	38.1	39.9	136.1	640.6	1827.5	1965.5	3393.7	3326.6	1058.0	154.3	223.2
87.5°	0.0	0.0	32.7	201.4	537.2	1070.7	2070.7	2045.3	359.3	74.4	83.5
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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	12790.9	12665.7	12402.5	12077.7	11829.0	11555.0	11337.2	11061.4	10941.6	10947.0	10881.7
5°	12504.2	12246.4	11663.9	10928.9	10362.7	9778.3	9275.6	8774.7	8478.9	8382.7	8291.9
7.5°	12094.0	11685.7	10756.5	9624.0	8665.8	7729.3	6914.5	6197.6	5743.9	5522.5	5440.8
10°	11631.2	11057.7	9713.0	8221.2	6852.8	5586.0	4529.8	3611.5	3244.9	2996.3	2932.8
12.5°	11224.7	10448.0	8693.0	6782.0	5157.7	3629.7	2622.4	2050.8	1802.1	1704.1	1687.8
15°	10841.8	9878.1	7711.2	5479.0	3571.6	2234.1	1667.8	1473.6	1415.6	1399.2	1399.2
17.5°	10480.6	9335.5	6751.2	4195.9	2362.9	1566.2	1381.1	1337.5	1319.4	1317.6	1319.4
20°	10103.1	8792.8	5807.4	3074.3	1649.7	1326.6	1275.8	1252.2	1246.8	1246.8	1246.8
22.5°	9742.0	8250.2	4889.1	2195.9	1323.0	1210.5	1185.1	1168.7	1163.3	1161.5	1157.9
25°	9395.4	7734.8	3992.6	1551.7	1161.5	1108.9	1087.1	1065.3	1049.0	1039.9	1034.5
27.5°	9110.4	7275.6	3157.8	1245.0	1049.0	1003.6	976.4	943.7	903.8	885.6	878.4
30°	8883.6	6856.4	2433.7	1050.8	943.7	898.3	856.6	800.3	742.3	711.4	709.6
32.5°	8705.7	6444.4	1847.5	929.2	849.3	793.1	733.2	662.4	595.3	560.8	559.0
35°	8618.6	6081.5	1411.9	840.3	765.9	695.1	620.7	542.6	477.3	444.6	441.0
37.5°	8676.7	5774.8	1101.6	765.9	695.1	613.4	526.3	444.6	386.6	357.5	355.7
40°	8889.0	5578.8	894.7	702.3	635.2	535.4	441.0	364.8	315.8	292.2	290.4
42.5°	9340.9	5506.2	764.0	649.7	577.1	462.8	366.6	301.3	255.9	239.6	235.9
45°	10095.9	5613.3	675.1	598.9	517.2	393.8	303.1	246.8	206.9	194.2	192.4
47.5°	11101.3	5894.6	611.6	549.9	462.8	332.1	252.3	199.6	168.8	156.1	154.3
50°	12397.1	6341.0	559.0	500.9	412.0	281.3	208.7	157.9	130.7	121.6	121.6
52.5°	13807.2	6872.7	511.8	455.5	361.2	234.1	168.8	121.6	103.4	92.6	92.6
55°	14972.3	7337.3	461.0	421.0	299.4	194.2	128.9	92.6	76.2	70.8	70.8
57.5°	16135.6	7832.8	402.9	361.2	239.6	157.9	98.0	69.0	56.3	52.6	52.6
60°	17643.7	8438.9	346.6	294.0	188.7	119.8	72.6	49.0	41.7	39.9	39.9
62.5°	19302.5	8794.6	295.8	235.9	147.0	88.9	52.6	32.7	30.9	30.9	29.0
65°	20317.0	8291.9	248.6	188.7	114.3	67.1	34.5	23.6	27.2	25.4	21.8
67.5°	19023.0	6491.6	203.3	147.0	88.9	50.8	21.8	16.3	29.0	23.6	18.1
70°	15750.9	4544.3	157.9	103.4	70.8	43.6	14.5	10.9	30.9	23.6	14.5
72.5°	11787.3	3041.6	125.2	69.0	52.6	38.1	12.7	5.4	27.2	20.0	12.7
75°	6440.8	1225.0	99.8	43.6	32.7	27.2	9.1	3.6	18.1	14.5	9.1
77.5°	1695.0	323.0	72.6	29.0	18.1	10.9	5.4	1.8	9.1	7.3	3.6
80°	431.9	125.2	47.2	20.0	12.7	5.4	0.0	0.0	1.8	0.0	0.0
82.5°	230.5	52.6	29.0	14.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	174.2	34.5	16.3	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.1	10.9	5.4	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)