

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: P323913

Luminaire Tested: **GAN-SA9A-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33813 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

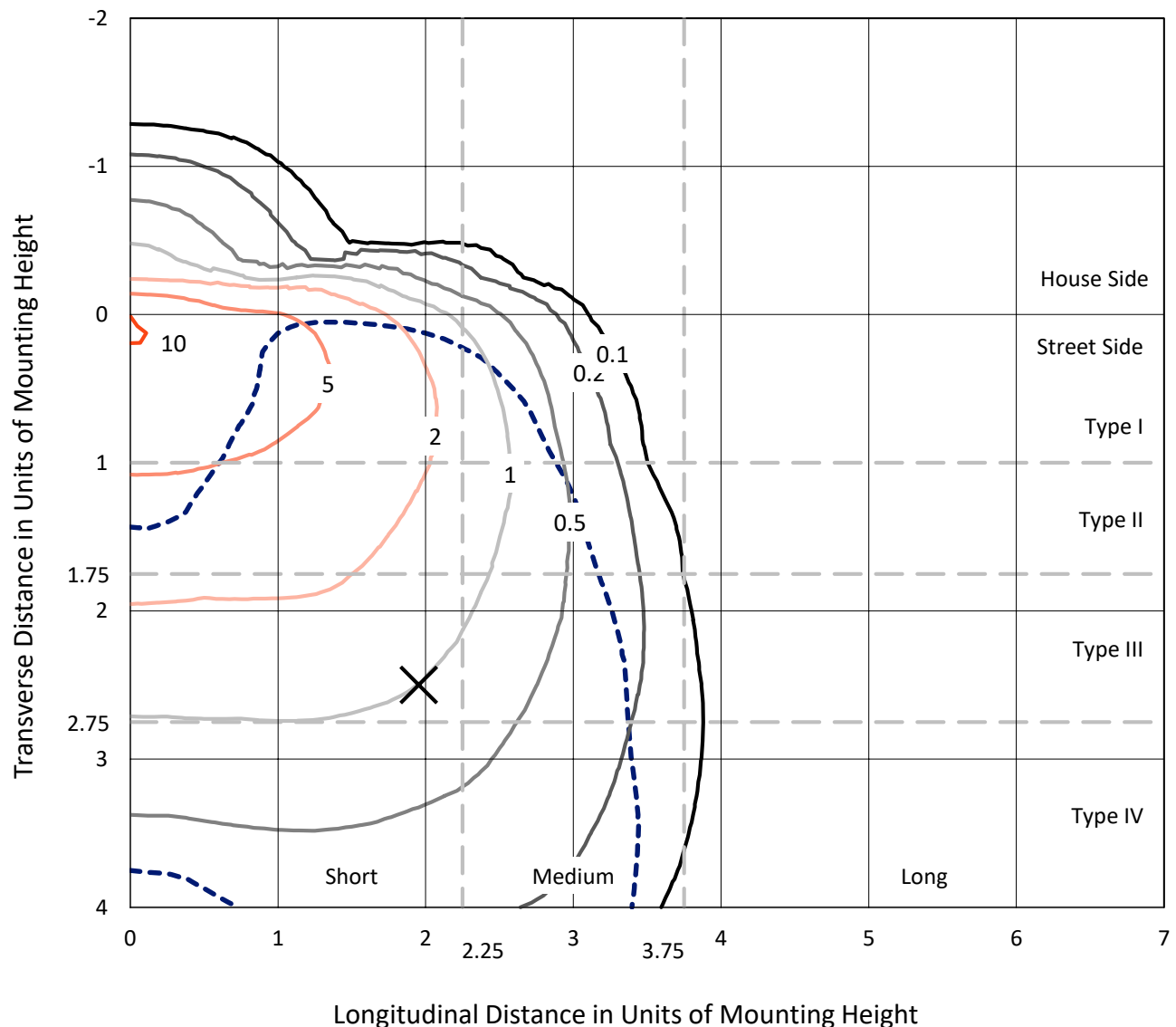
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

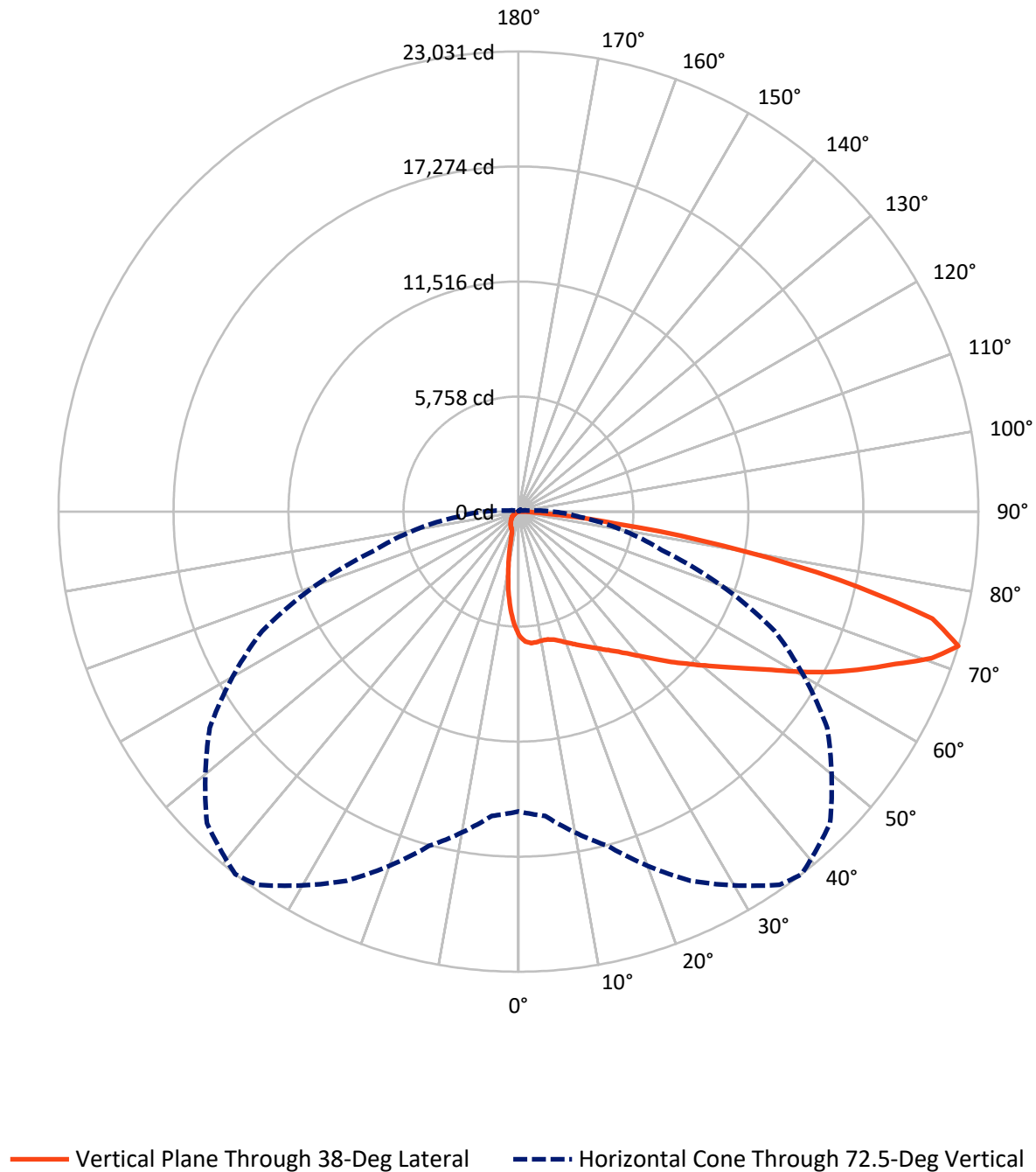
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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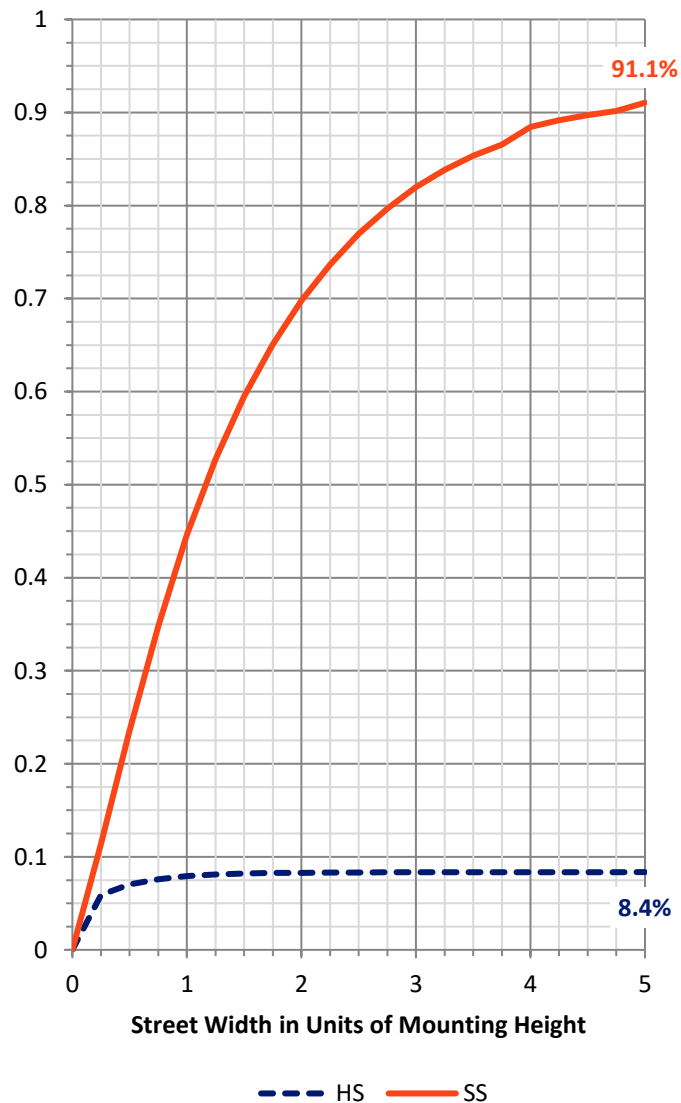
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.5	0.0	2845.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30967.5	0.0	30967.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	33813.0	0.0	33813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.9	1.6
10°-20°	1295.7	3.8
20°-30°	2060.8	6.1
30°-40°	3098.2	9.2
40°-50°	4726.6	14.0
50°-60°	6680.2	19.8
60°-70°	8379.3	24.8
70°-80°	6265.3	18.5
80°-90°	776.9	2.3
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°	33813.0	100.0
0°-180°	33813.0	100.0

Coefficient of Utilization



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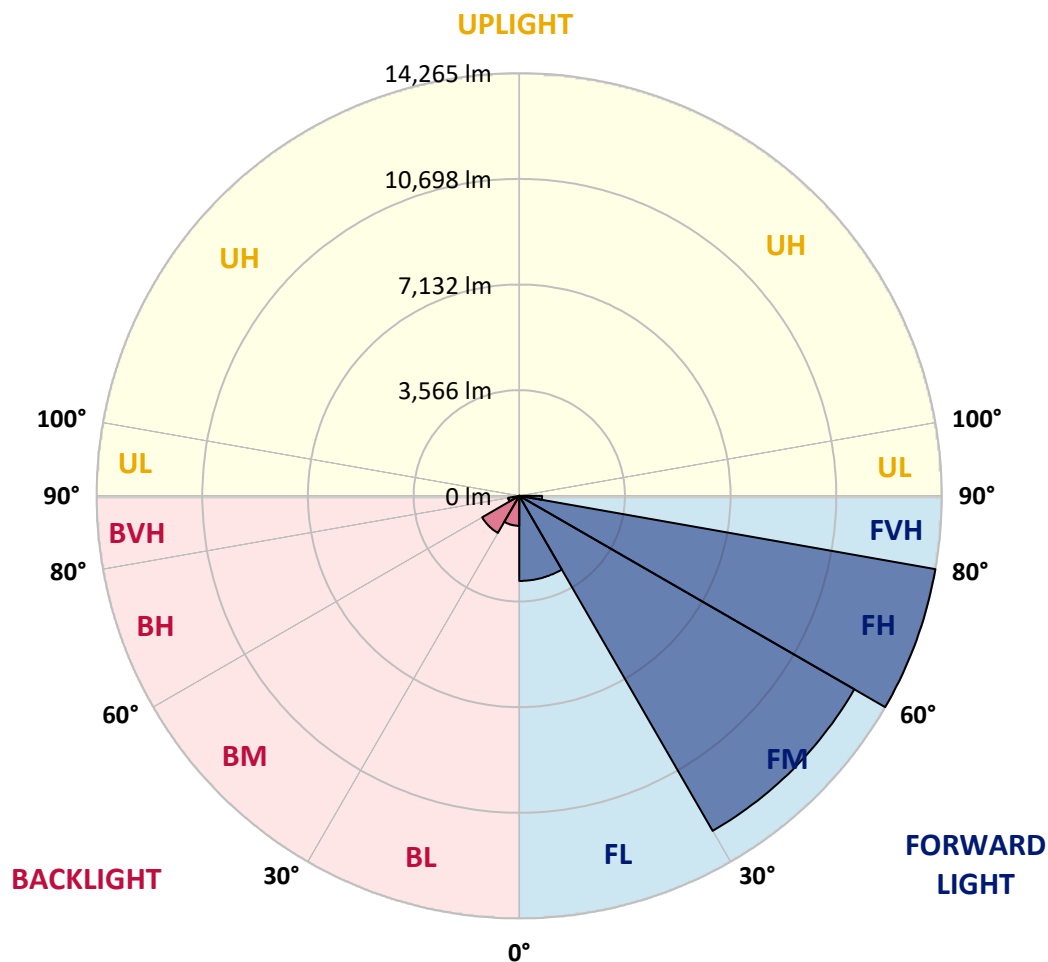
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2873.3	8.5			
FM	(30°-60°)	13060.1	38.6			
FH	(60°-80°)	14264.5	42.2			G5
FVH	(80°-90°)	769.6	2.3			G5
BL	(0°-30°)	1013.2	3.0	B3/2500		
BM	(30°-60°)	1445.0	4.3	B2/2500		
BH	(60°-80°)	380.1	1.1	B1/500		G1/500
BVH	(80°-90°)	7.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1
2.5°	6600.1	6601.5	6586.0	6560.7	6528.4	6511.6	6483.5	6438.6	6390.8	6305.2	6212.5
5°	6734.9	6734.9	6715.2	6681.5	6629.5	6614.1	6560.7	6489.1	6390.8	6251.8	6095.9
7.5°	6720.8	6723.6	6697.0	6661.8	6609.9	6595.8	6531.3	6451.2	6329.0	6160.5	5961.1
10°	6647.8	6654.8	6633.8	6616.9	6569.2	6553.7	6493.3	6413.3	6291.1	6111.4	5882.5
12.5°	6573.4	6580.4	6587.4	6602.9	6573.4	6567.8	6520.0	6452.6	6336.1	6149.3	5890.9
15°	6525.6	6539.7	6590.2	6650.6	6657.6	6652.0	6621.1	6557.9	6440.0	6246.2	5951.3
17.5°	6525.6	6548.1	6653.4	6768.6	6809.3	6813.5	6786.8	6698.4	6557.9	6350.1	6007.5
20°	6580.4	6611.3	6775.6	6938.5	7005.9	7005.9	6953.9	6830.4	6666.1	6444.2	6045.4
22.5°	6720.8	6761.6	6968.0	7156.2	7227.8	7212.3	7142.1	6962.4	6778.4	6550.9	6093.1
25°	6997.5	7028.4	7243.2	7432.8	7476.3	7441.2	7352.7	7122.4	6921.6	6695.6	6180.2
27.5°	7354.2	7358.4	7580.2	7740.3	7713.6	7689.8	7578.8	7323.3	7128.1	6902.0	6330.4
30°	7745.9	7745.9	7941.1	8063.3	7981.9	7962.2	7851.3	7566.2	7392.1	7182.8	6543.9
32.5°	8125.1	8141.9	8300.6	8377.9	8286.6	8266.9	8158.8	7873.7	7743.1	7611.1	6876.7
35°	8491.6	8504.2	8654.5	8696.6	8609.6	8615.2	8538.0	8296.4	8247.3	8230.4	7378.0
37.5°	8846.9	8849.7	9002.8	9029.4	8985.9	9033.7	9040.7	8827.2	8918.5	9054.7	8084.4
40°	9171.3	9174.1	9325.7	9394.6	9469.0	9530.8	9585.5	9471.8	9773.7	10089.7	8925.5
42.5°	9431.1	9460.6	9652.9	9783.5	9980.1	10098.1	10246.9	10241.3	10791.8	11266.4	9942.2
45°	9660.0	9710.5	9978.7	10207.6	10544.6	10732.8	10965.9	11148.5	11937.7	12576.6	10971.5
47.5°	9961.9	10009.6	10315.8	10690.7	11140.1	11387.2	11773.4	12168.0	13197.3	13862.9	11977.0
50°	10387.4	10366.3	10668.2	11206.1	11783.2	12107.6	12658.1	13249.3	14447.1	14983.5	12568.2
52.5°	10840.9	10832.5	11055.8	11766.4	12541.5	12920.7	13648.1	14367.1	15642.1	15755.9	12839.2
55°	11402.7	11342.3	11530.4	12405.3	13441.7	13848.9	14705.5	15473.6	16594.2	16191.2	12975.4
57.5°	11991.0	11891.3	12071.1	13117.3	14456.9	14938.6	15876.7	16552.1	17227.6	16488.9	12974.0
60°	12599.1	12481.1	12694.6	14007.6	15718.0	16275.5	17146.1	17280.9	17818.8	16639.2	12878.5
62.5°	13107.4	13037.2	13354.6	14959.7	17126.5	17674.1	18105.2	17943.7	18317.3	16755.7	12655.3
65°	13645.3	13649.5	14162.0	16070.4	18623.4	18992.7	19029.2	18803.2	18734.3	16731.9	11899.8
67.5°	14372.7	14440.1	15295.3	17578.6	20079.6	20364.7	20361.9	19734.2	19039.1	15782.6	10224.5
70°	15142.2	15300.9	16601.3	19304.5	21669.3	21958.5	21809.7	20326.8	17926.9	12762.0	7236.2
72.5°	15013.0	15288.3	17327.3	20392.8	22810.9	23031.4	22063.9	18870.6	14169.1	7417.3	3081.0
75°	11582.4	11901.2	15887.9	19314.3	21613.1	21415.1	18957.6	14684.4	7743.1	2069.9	693.7
77.5°	6118.4	6288.3	10495.5	14713.9	16852.6	16438.4	13354.6	8146.2	2360.6	512.6	311.7
80°	3204.5	3243.9	4573.7	8348.4	10401.4	10404.2	7914.5	3578.1	973.2	262.6	209.2
82.5°	1716.0	1749.7	2416.7	3857.5	5450.0	4940.2	3030.4	1968.8	565.9	148.9	200.8
85°	412.9	419.9	1370.6	1762.4	2142.9	1530.7	900.1	1652.8	153.1	87.1	162.9
87.5°	158.7	161.5	508.3	762.5	546.3	353.9	421.3	616.5	19.7	33.7	25.3
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°	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1	6218.1
2.5°	6156.3	6119.8	6029.9	5916.2	5815.1	5742.1	5632.5	5560.9	5513.2	5511.8	5493.5
5°	6000.4	5926.0	5732.2	5501.9	5292.7	5104.5	4882.6	4707.1	4576.5	4555.4	4510.5
7.5°	5833.3	5711.2	5413.5	5054.0	4702.9	4346.2	3932.0	3675.0	3454.5	3349.2	3337.9
10°	5730.8	5559.5	5136.8	4617.2	4066.8	3486.8	2944.8	2569.8	2298.8	2221.6	2164.0
12.5°	5709.8	5483.7	4923.4	4207.2	3420.8	2654.1	2054.4	1655.6	1439.4	1370.6	1352.3
15°	5730.8	5448.6	4743.6	3801.4	2766.4	1883.1	1379.0	1147.3	1065.8	1046.2	1044.8
17.5°	5743.5	5406.4	4540.0	3350.6	2131.7	1345.3	1056.0	988.6	976.0	974.6	977.4
20°	5742.1	5341.8	4297.1	2847.9	1585.4	1057.4	954.9	940.9	938.1	939.5	938.1
22.5°	5732.2	5266.0	4030.2	2329.7	1197.8	945.1	911.4	902.9	901.5	901.5	901.5
25°	5750.5	5205.6	3736.8	1834.0	987.2	893.1	872.1	865.0	863.6	863.6	860.8
27.5°	5816.5	5171.9	3415.2	1411.3	891.7	846.8	829.9	828.5	824.3	822.9	825.7
30°	5923.2	5171.9	3062.7	1098.1	834.1	799.0	786.4	783.6	782.2	780.8	782.2
32.5°	6111.4	5211.2	2677.9	912.8	779.4	745.7	737.2	741.5	737.2	737.2	737.2
35°	6451.2	5329.2	2274.9	796.2	721.8	693.7	685.3	690.9	688.1	688.1	686.7
37.5°	6946.9	5548.3	1869.1	726.0	671.2	641.8	630.5	638.9	636.1	636.1	634.7
40°	7550.7	5867.0	1482.9	672.6	622.1	591.2	581.4	585.6	578.6	578.6	581.4
42.5°	8296.4	6271.5	1145.9	620.7	572.9	543.5	537.8	533.6	521.0	514.0	515.4
45°	9124.9	6692.7	893.1	570.1	526.6	502.7	494.3	483.1	462.0	448.0	449.4
47.5°	9865.0	7017.1	726.0	521.0	484.5	466.2	453.6	432.5	401.6	384.8	386.2
50°	10254.0	7066.3	617.9	471.8	445.2	426.9	408.6	376.3	339.8	321.6	320.2
52.5°	10353.7	6836.0	537.8	426.9	405.8	384.8	360.9	317.4	276.6	257.0	254.2
55°	10390.2	6484.9	466.2	384.8	363.7	339.8	308.9	259.8	221.9	202.2	200.8
57.5°	10269.4	5961.1	410.0	346.9	321.6	292.1	254.2	207.8	171.3	155.9	155.9
60°	10001.2	5252.0	366.5	306.1	278.0	244.3	205.0	161.5	127.8	115.1	115.1
62.5°	9466.2	4333.6	325.8	264.0	237.3	202.2	165.7	122.2	89.9	82.9	84.3
65°	8456.5	3287.4	285.1	226.1	202.2	167.1	129.2	87.1	60.4	60.4	63.2
67.5°	6896.4	2283.3	242.9	192.4	174.1	136.2	98.3	60.4	42.1	47.7	53.4
70°	4565.3	1280.7	207.8	158.7	148.9	108.1	73.0	40.7	33.7	44.9	54.8
72.5°	1723.0	498.5	174.1	127.8	129.2	82.9	52.0	30.9	30.9	49.1	64.6
75°	480.3	244.3	125.0	94.1	101.1	60.4	37.9	26.7	29.5	56.2	75.8
77.5°	282.3	179.7	81.4	54.8	68.8	42.1	25.3	21.1	25.3	47.7	73.0
80°	227.5	95.5	47.7	28.1	37.9	23.9	16.9	12.6	7.0	18.3	37.9
82.5°	227.5	57.6	22.5	19.7	19.7	12.6	8.4	5.6	1.4	0.0	9.8
85°	153.1	23.9	14.0	12.6	9.8	4.2	2.8	1.4	0.0	0.0	0.0
87.5°	25.3	9.8	5.6	2.8	1.4	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)