

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: P322662

Luminaire Tested: **GAN-SA8D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44159 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

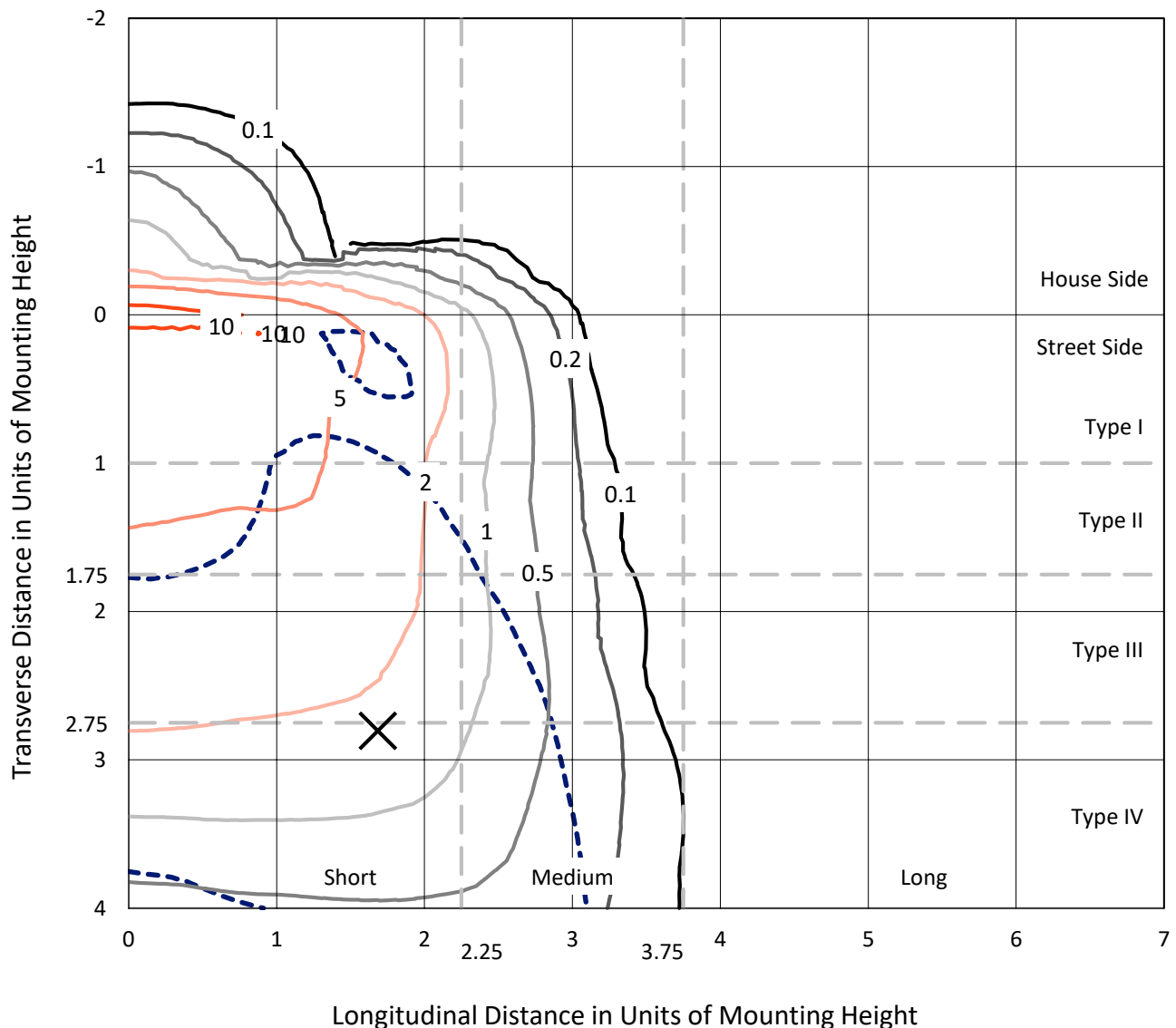
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

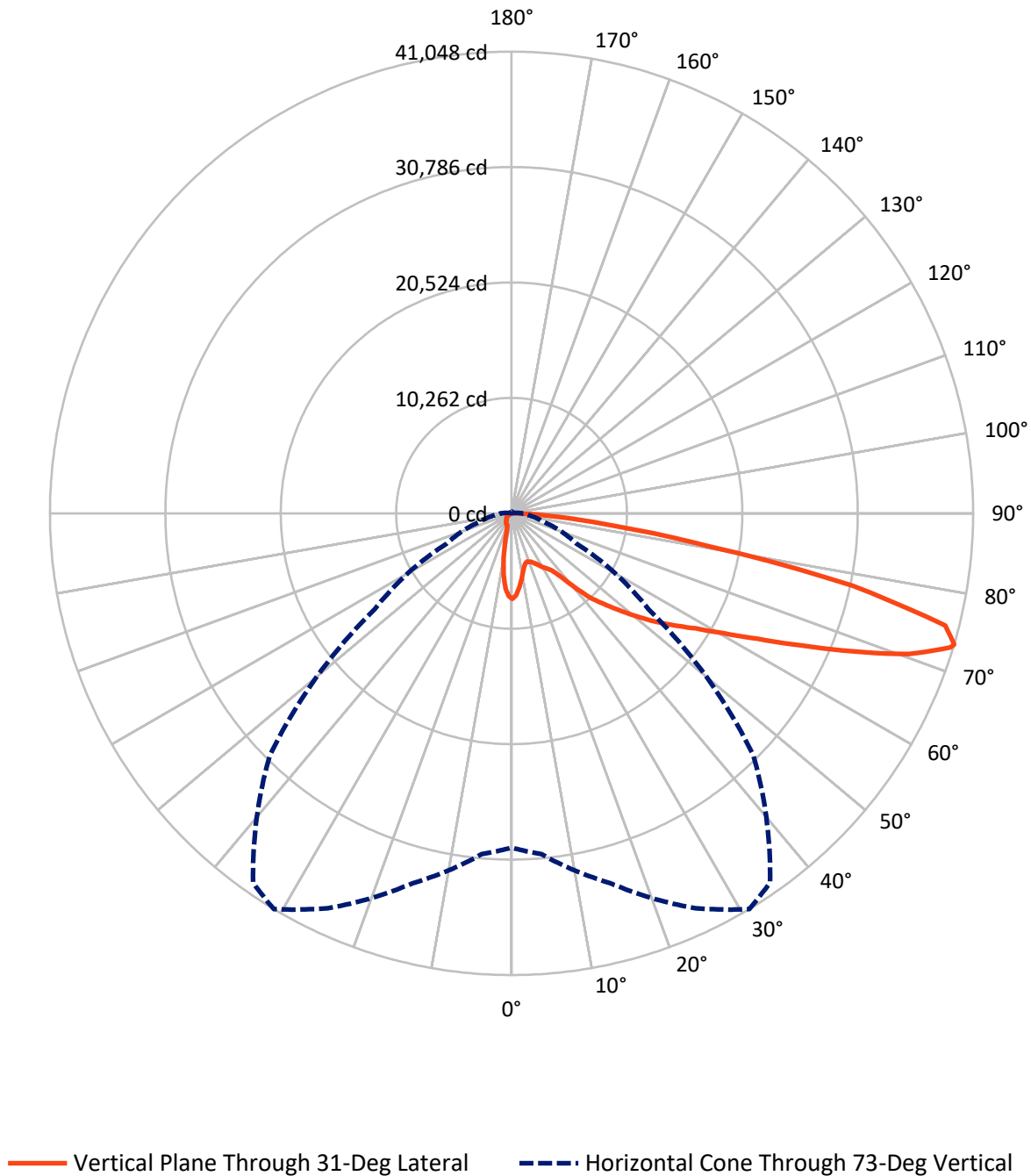
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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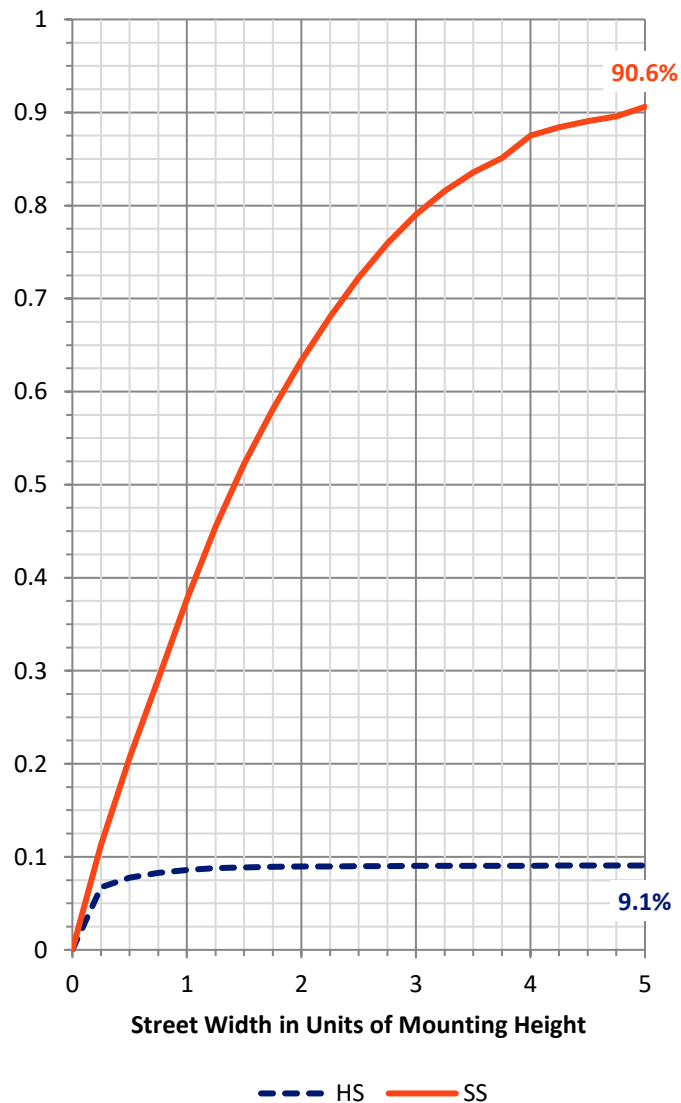
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4025.3	0.0	4025.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	40133.8	0.0	40133.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	44159.0	0.0	44159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.9	1.4
10°-20°	1367.8	3.1
20°-30°	2049.4	4.6
30°-40°	3260.5	7.4
40°-50°	5822.4	13.2
50°-60°	9034.8	20.5
60°-70°	12010.5	27.2
70°-80°	9034.3	20.5
80°-90°	949.3	2.1
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°	44159.0	100.0
0°-180°	44159.0	100.0

Coefficient of Utilization



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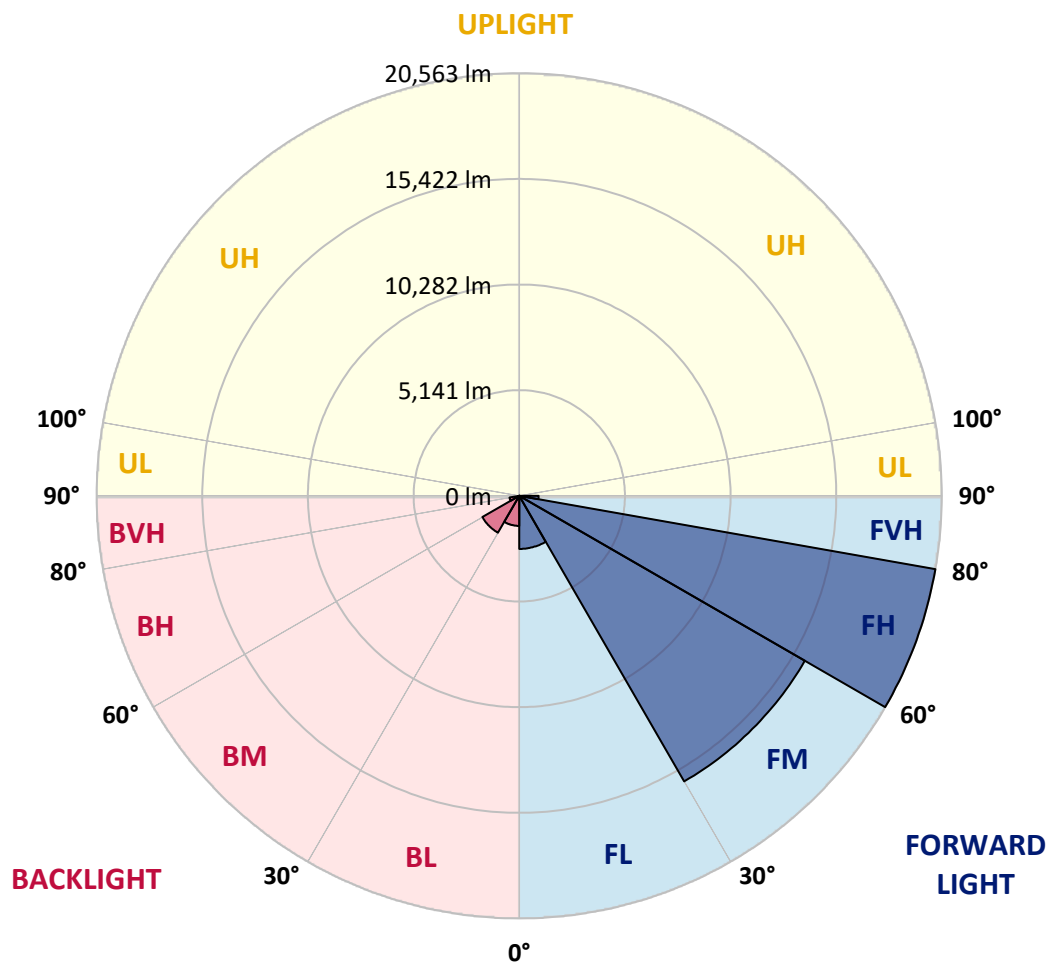
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2583.4	5.9			
FM	(30°-60°)	16045.9	36.3			
FH	(60°-80°)	20563.2	46.6			G5
FVH	(80°-90°)	941.3	2.1			G5
BL	(0°-30°)	1463.8	3.3	B3/2500		
BM	(30°-60°)	2071.9	4.7	B2/2500		
BH	(60°-80°)	481.6	1.1	B1/500		G1/500
BVH	(80°-90°)	8.0	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°	31°	35°	45°	55°	65°	75°	85°
0°	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6
2.5°	7200.0	7230.3	7262.7	7269.2	7323.2	7325.4	7403.2	7461.5	7519.9	7576.0	7595.5
5°	6461.0	6510.7	6569.1	6627.4	6741.9	6787.3	6977.5	7172.0	7357.8	7535.0	7621.4
7.5°	5672.3	5728.5	5810.6	5955.4	6082.9	6171.5	6471.8	6817.6	7163.3	7489.6	7677.6
10°	4952.7	5004.6	5091.0	5244.5	5441.1	5562.1	5966.2	6445.9	6953.7	7448.5	7761.9
12.5°	4494.6	4522.7	4570.3	4734.5	4911.7	5047.8	5523.2	6117.4	6780.8	7446.4	7898.0
15°	4410.4	4419.0	4380.1	4453.6	4591.9	4723.7	5205.6	5851.7	6649.0	7481.0	8075.2
17.5°	4544.3	4540.0	4410.4	4401.7	4511.9	4620.0	5050.0	5668.0	6556.1	7560.9	8304.3
20°	4747.4	4732.3	4507.6	4466.5	4583.2	4684.8	5039.2	5598.8	6521.5	7694.9	8583.0
22.5°	5017.6	4991.6	4639.4	4596.2	4721.5	4827.4	5173.1	5665.8	6551.8	7874.2	8907.1
25°	5352.5	5313.6	4866.3	4818.8	4946.2	5052.1	5413.0	5858.1	6642.5	8092.5	9317.7
27.5°	5730.6	5674.5	5229.3	5106.2	5250.9	5361.1	5732.8	6152.0	6785.2	8323.7	9821.2
30°	6087.2	6013.7	5611.8	5408.7	5585.9	5709.0	6078.5	6502.1	7014.2	8680.2	10510.5
32.5°	6445.9	6363.8	5953.2	5711.2	5871.1	6005.1	6435.1	6984.0	7444.2	9224.8	11426.7
35°	7271.4	7184.9	6681.4	6281.7	6279.5	6355.1	6934.3	7643.0	8012.5	9983.3	12520.1
37.5°	8660.8	8611.1	8131.4	7372.9	7169.8	7085.5	7614.9	8429.6	8829.3	11027.0	13754.0
40°	10182.1	10138.8	9600.8	8913.6	8604.6	8397.2	8591.7	9525.1	9983.3	12301.9	15013.8
42.5°	11900.0	11694.7	10735.2	10530.0	10253.4	10095.6	9920.6	10875.7	11400.8	13689.2	16262.8
45°	13460.1	13114.4	11869.7	11558.5	11495.9	11534.8	11632.0	12690.8	12995.5	15337.9	17507.4
47.5°	14389.3	14117.0	13161.9	12863.7	12846.4	13103.6	13838.3	14741.5	14583.8	16774.9	18603.0
50°	15273.1	15026.7	14233.7	14307.2	14387.1	14737.2	16342.7	16850.5	16033.7	18077.9	19607.8
52.5°	15988.3	15612.3	15197.5	15610.2	16003.5	16567.5	18927.1	18743.5	17062.3	19115.1	20467.8
55°	16401.1	16230.4	16431.3	16846.2	17585.2	18501.4	21366.8	20318.7	17814.3	20061.6	21040.5
57.5°	17913.7	17578.7	17978.5	18337.2	19301.0	20582.4	23456.3	21492.1	18356.7	20647.2	21172.3
60°	19743.9	19473.8	19709.4	20305.8	21606.6	23112.7	25409.8	22449.4	18639.7	21023.2	20830.9
62.5°	22656.8	22300.3	22153.3	22821.0	24545.4	26189.8	26892.1	23112.7	18577.1	20856.8	19659.7
65°	26559.3	26189.8	25532.9	26138.0	28331.3	29491.7	28549.5	23253.2	18144.9	19510.6	16699.3
67.5°	30557.0	30289.0	29727.2	30747.1	32726.5	33100.3	30302.0	22911.8	16753.3	15819.8	11798.4
70°	33197.6	33083.0	33448.2	35704.2	37469.6	37361.6	31909.7	21077.2	13058.2	9728.3	5836.5
72.5°	31293.8	31842.7	34539.5	38630.0	40786.6	39904.9	31084.2	16185.0	7463.7	3742.6	1687.6
73°	29716.4	30418.7	34049.0	38740.2	41048.0	40082.1	30390.6	14856.0	6361.6	2953.9	1279.2
75°	20673.1	21535.3	28188.7	36080.2	39825.0	38189.2	25332.0	9093.0	2947.4	1309.5	516.4
77.5°	10037.3	10674.7	15521.6	26068.8	30971.9	29837.4	15770.1	3388.3	1331.1	819.0	237.7
80°	3747.0	4166.2	6737.6	13267.8	17898.6	18367.5	6936.4	1281.4	886.0	659.1	121.0
82.5°	981.0	1093.4	2485.0	5916.5	9172.9	9600.8	2186.8	646.1	648.3	542.4	73.5
85°	313.3	358.7	775.8	2655.7	4321.8	3794.5	570.5	313.3	471.1	404.1	41.1
87.5°	38.9	49.7	246.3	624.5	952.9	529.4	88.6	92.9	201.0	224.7	23.8
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°	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6	7597.6
2.5°	7614.9	7604.1	7606.3	7550.1	7513.4	7439.9	7364.3	7329.7	7293.0	7277.8	7293.0
5°	7653.8	7634.4	7578.2	7405.3	7221.7	6984.0	6761.4	6592.8	6381.1	6322.7	6383.2
7.5°	7714.3	7675.4	7511.2	7159.0	6750.6	6296.8	5786.8	5415.2	5110.5	4913.8	4985.1
10°	7802.9	7729.5	7398.8	6800.3	6069.9	5266.1	4542.2	3978.2	3578.4	3414.2	3407.7
12.5°	7952.0	7813.7	7260.5	6333.5	5238.0	4166.2	3217.5	2606.0	2281.9	2072.3	2068.0
15°	8116.3	7913.1	7085.5	5773.9	4269.9	2984.2	2072.3	1607.7	1398.1	1331.1	1322.5
17.5°	8317.2	8027.7	6858.6	5084.5	3256.4	1977.2	1352.7	1218.7	1210.1	1203.6	1203.6
20°	8570.0	8163.8	6566.9	4295.8	2310.0	1320.3	1149.6	1158.2	1162.6	1153.9	1156.1
22.5°	8863.9	8302.1	6219.0	3448.8	1562.3	1104.2	1099.9	1110.7	1115.0	1110.7	1112.9
25°	9205.3	8462.0	5795.5	2560.6	1128.0	1048.0	1058.8	1074.0	1084.8	1084.8	1084.8
27.5°	9628.9	8656.5	5285.5	1787.0	974.6	989.7	1019.9	1048.0	1063.2	1067.5	1067.5
30°	10179.9	8898.5	4674.0	1225.2	886.0	911.9	968.1	1022.1	1050.2	1054.5	1056.7
32.5°	10875.7	9170.8	3965.2	905.4	810.3	829.8	890.3	981.0	1035.1	1043.7	1043.7
35°	11673.1	9486.3	3202.4	788.7	756.3	762.8	810.3	914.1	1009.1	1032.9	1035.1
37.5°	12546.1	9797.4	2435.3	736.9	710.9	710.9	745.5	834.1	946.5	1019.9	1028.6
40°	13360.7	9985.4	1707.1	695.8	669.9	669.9	700.1	765.0	870.8	981.0	1004.8
42.5°	14112.7	10050.2	1188.5	656.9	631.0	637.5	663.4	715.3	795.2	905.4	927.0
45°	14886.3	10039.4	866.5	611.5	592.1	611.5	631.0	669.9	728.2	790.9	795.2
47.5°	15469.7	9948.7	687.2	568.3	555.3	581.3	598.6	624.5	656.9	652.6	652.6
50°	16016.4	9728.3	553.2	510.0	518.6	548.9	557.5	566.1	568.3	527.3	522.9
52.5°	16431.3	9384.7	443.0	447.3	481.9	512.1	503.5	490.5	468.9	419.2	410.6
55°	16569.6	8723.5	347.9	369.5	427.9	466.7	434.3	406.2	365.2	324.1	315.5
57.5°	16318.9	7869.9	283.1	287.4	360.9	393.3	356.5	324.1	278.8	244.2	237.7
60°	15787.4	6921.3	233.4	216.1	278.8	306.8	283.1	250.7	209.6	183.7	181.5
62.5°	14732.9	5910.0	192.3	168.5	211.8	235.5	220.4	196.6	162.1	144.8	142.6
65°	12515.8	4728.0	155.6	136.1	164.2	183.7	170.7	153.4	127.5	114.5	112.4
67.5°	8736.4	3195.9	127.5	112.4	129.7	144.8	134.0	125.3	101.6	99.4	101.6
70°	4213.7	1540.7	105.9	90.8	101.6	112.4	108.0	101.6	97.2	112.4	129.7
72.5°	1207.9	516.4	84.3	75.6	82.1	88.6	92.9	90.8	105.9	136.1	157.7
73°	929.2	417.0	80.0	71.3	77.8	86.4	90.8	88.6	108.0	138.3	157.7
75°	397.6	201.0	60.5	58.3	64.8	75.6	80.0	80.0	108.0	140.5	151.3
77.5°	179.4	108.0	38.9	45.4	56.2	60.5	67.0	67.0	86.4	108.0	108.0
80°	101.6	58.3	30.3	34.6	41.1	41.1	41.1	36.7	38.9	43.2	47.5
82.5°	64.8	38.9	23.8	28.1	25.9	21.6	17.3	17.3	15.1	17.3	21.6
85°	36.7	21.6	21.6	17.3	10.8	8.6	10.8	8.6	2.2	0.0	2.2
87.5°	21.6	13.0	6.5	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)