

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: P192795

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33728.3 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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: 28.75 FT



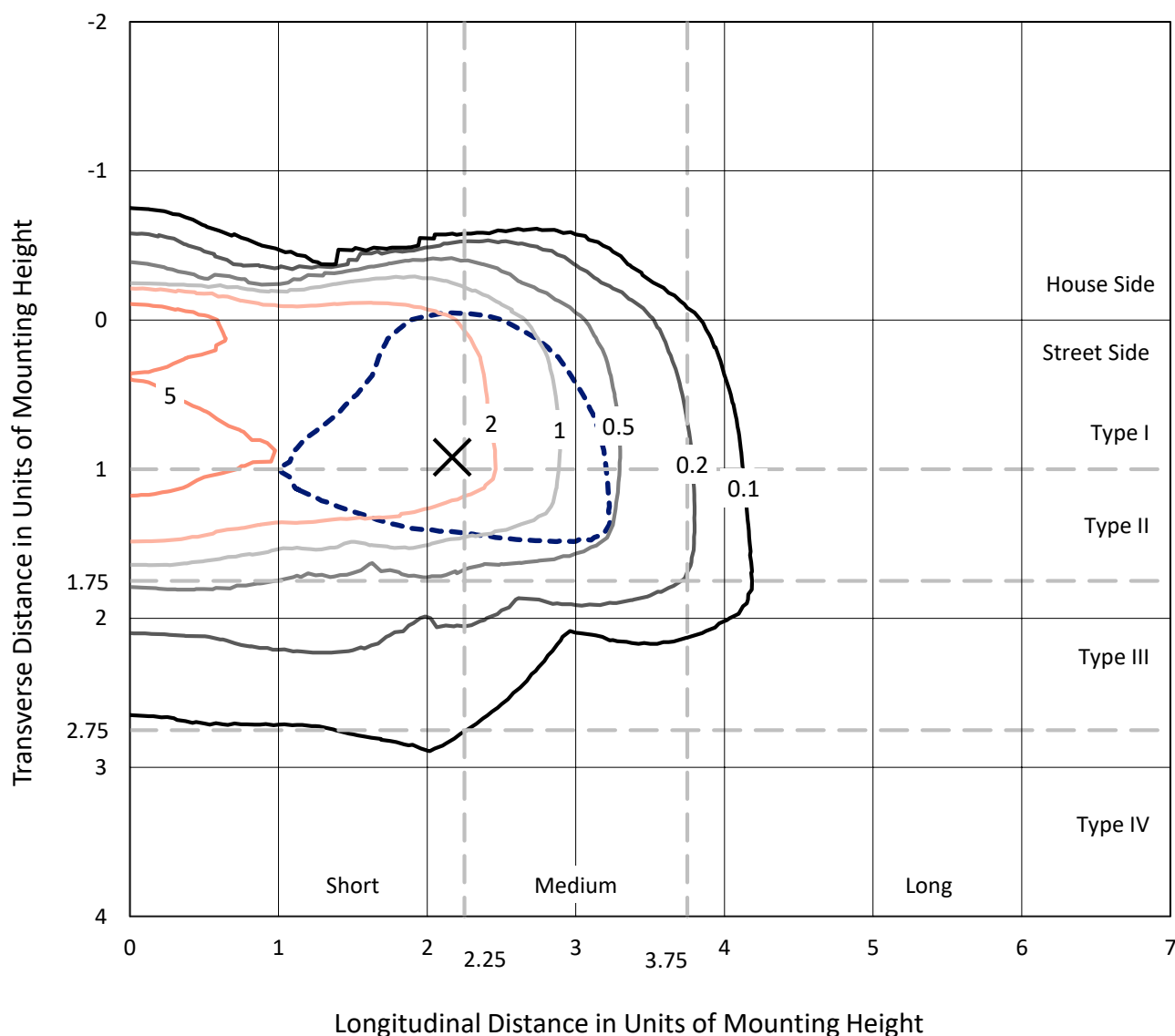
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

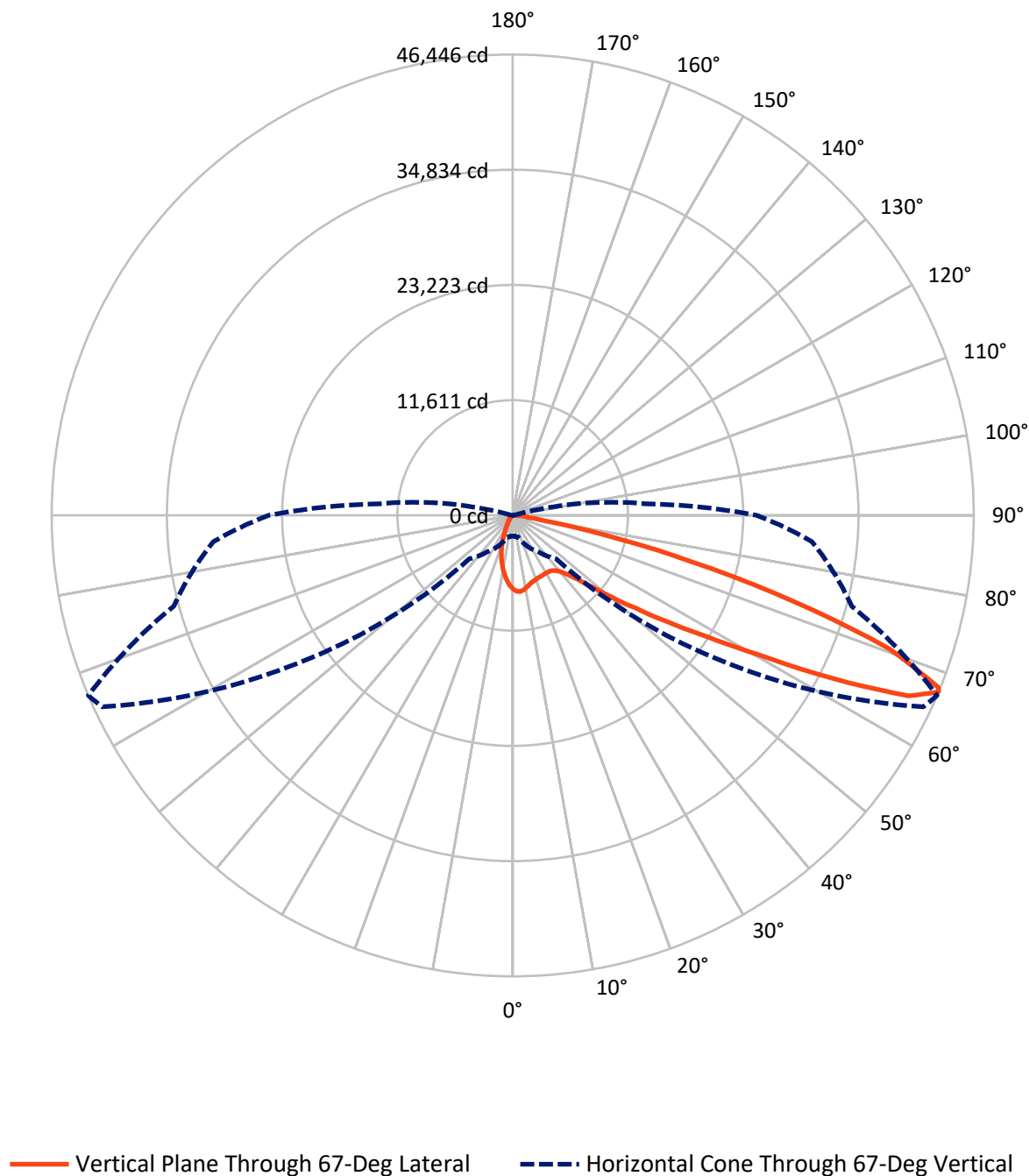


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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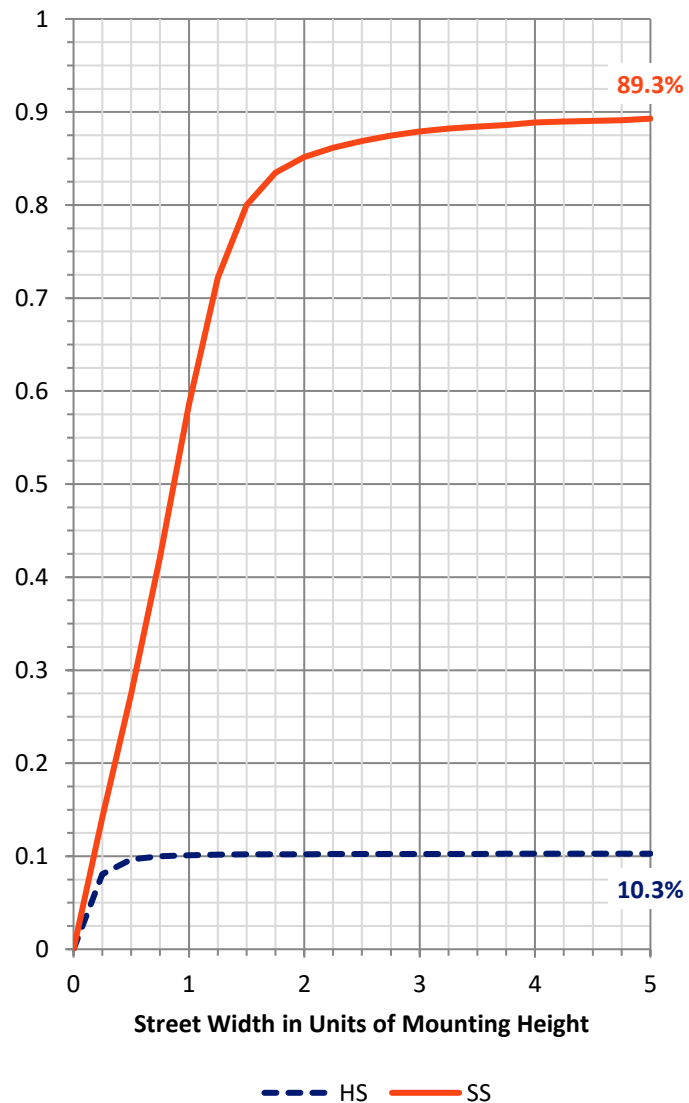
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.0	0.0	3502.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30226.3	0.0	30226.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	33728.3	0.0	33728.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.2	1.8
10°-20°	1288.2	3.8
20°-30°	1872.9	5.6
30°-40°	2921.8	8.7
40°-50°	5175.9	15.3
50°-60°	8190.3	24.3
60°-70°	9380.9	27.8
70°-80°	3891.1	11.5
80°-90°	401.9	1.2
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°	33728.3	100.0
0°-180°	33728.3	100.0

Coefficient of Utilization



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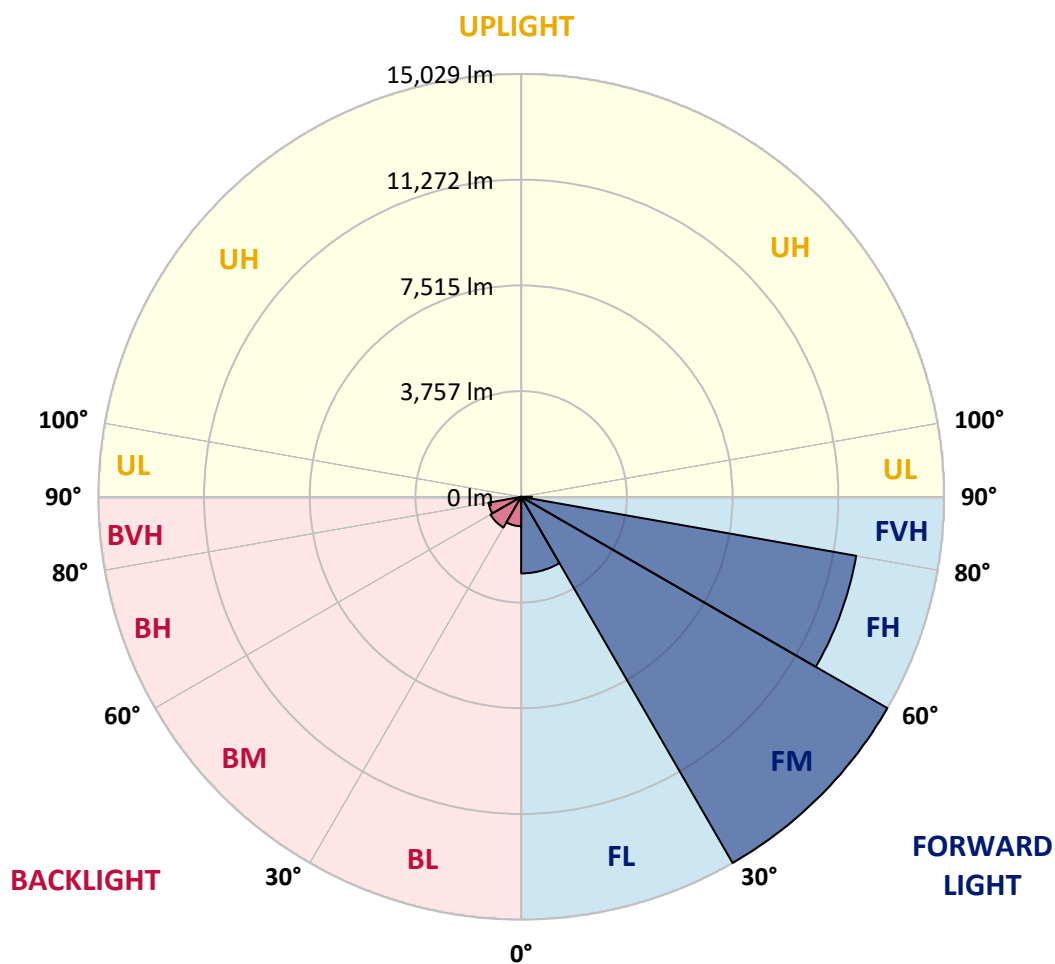
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2721.4	8.1			
FM	(30°-60°)	15029.4	44.6			
FH	(60°-80°)	12091.7	35.9			G5
FVH	(80°-90°)	383.8	1.1			G3/500
BL	(0°-30°)	1045.0	3.1	B3/2500		
BM	(30°-60°)	1258.6	3.7	B2/2500		
BH	(60°-80°)	1180.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	18.1	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4
2.5°	7690.1	7705.9	7704.0	7715.8	7743.3	7745.3	7717.7	7664.5	7652.7	7583.9	7463.9
5°	7092.1	7137.4	7164.9	7277.0	7403.0	7554.4	7668.5	7709.9	7704.0	7654.7	7473.8
7.5°	6409.4	6454.7	6486.1	6618.0	6785.2	7044.9	7341.9	7585.9	7607.5	7660.6	7465.9
10°	5954.9	5962.9	6006.2	6132.0	6307.1	6572.7	6926.8	7353.8	7418.7	7613.4	7446.2
12.5°	5581.2	5587.1	5644.3	5780.0	5966.7	6234.4	6606.2	7100.0	7200.3	7554.4	7442.3
15°	5315.7	5337.4	5388.4	5530.0	5728.8	5994.4	6376.1	6913.1	7033.1	7532.8	7477.7
17.5°	5227.1	5250.7	5266.4	5368.8	5549.8	5809.5	6200.9	6791.1	6926.8	7544.6	7546.5
20°	5319.7	5337.4	5302.0	5327.5	5439.6	5671.7	6053.4	6686.8	6848.2	7558.3	7635.0
22.5°	5663.9	5671.7	5575.3	5463.2	5443.6	5571.3	5937.2	6604.1	6777.4	7595.7	7739.4
25°	6254.0	6240.3	6082.9	5840.9	5612.6	5553.6	5868.5	6553.1	6742.0	7635.0	7847.5
27.5°	6966.2	6985.8	6769.4	6417.4	5982.5	5671.7	5858.6	6531.4	6726.2	7662.6	7941.9
30°	7831.8	7859.3	7611.4	7168.8	6545.1	5962.9	5949.0	6527.4	6716.3	7644.9	7949.8
32.5°	8715.1	8748.6	8553.8	8097.4	7296.7	6450.7	6153.7	6570.8	6736.1	7583.9	7904.6
35°	9639.7	9686.9	9557.1	9165.6	8315.7	7155.1	6513.7	6702.6	6828.4	7578.0	7859.3
37.5°	10916.5	10959.8	10715.8	10300.8	9549.3	8099.4	7092.1	6950.4	7046.9	7672.4	7871.1
40°	12822.7	12816.8	12187.5	11552.0	10904.7	9299.4	7904.6	7399.0	7448.2	7957.7	8016.7
42.5°	14900.3	14890.5	13959.9	12993.9	12409.6	10776.9	8972.8	8174.1	8140.7	8483.0	8394.5
45°	16501.7	16499.7	15740.3	14652.4	14221.6	12472.6	10353.9	9252.2	9201.0	9336.8	9090.9
47.5°	17184.3	17196.1	16814.5	16049.2	16230.1	14766.5	12094.9	10814.3	10737.5	10682.4	10308.6
50°	16653.2	16676.8	16708.3	16558.7	17703.8	17849.2	14430.1	13015.6	12978.3	12732.3	12148.1
52.5°	14918.0	15038.0	15407.8	15881.9	18215.1	20808.1	18091.2	15750.2	15549.4	15287.9	14644.6
55°	11994.6	12126.3	12828.7	13979.6	17453.8	22751.8	23222.0	19275.5	18941.0	18160.1	17231.5
57.5°	7938.0	8142.6	9161.7	10625.4	15242.6	23064.5	28340.9	24168.2	23003.6	20865.1	19818.5
60°	4373.3	4570.0	5675.7	7001.6	11009.0	21518.3	31783.6	30538.3	28480.5	23888.9	22960.3
62.5°	2693.2	2799.4	3615.9	4849.4	6602.2	16983.7	32495.8	38543.3	36160.9	27782.1	26755.2
65°	2144.3	2189.5	2589.0	3964.2	4733.3	10102.1	30196.0	44645.8	43850.9	32495.8	30152.8
67°	2081.4	2099.1	2288.0	3403.4	4461.8	6193.1	25297.5	45639.2	46445.9	35348.3	30259.0
67.5°	2095.1	2114.8	2293.9	3248.0	4454.0	5691.5	23609.5	45247.7	46266.8	35574.6	29788.8
70°	2020.4	2081.4	2626.4	3246.0	4235.6	4729.4	14138.9	39204.3	40264.7	33054.5	25275.8
72.5°	716.0	720.0	1135.1	2626.4	4605.4	4780.5	7100.0	28740.2	29525.1	25285.7	18223.1
75°	424.9	361.9	377.7	747.6	4400.9	4642.9	4095.9	18364.8	18657.8	14489.1	9228.6
77.5°	293.2	255.7	263.7	330.5	1676.1	4577.9	3254.0	9576.8	9264.0	5081.5	1965.3
80°	167.1	147.5	157.4	289.2	609.8	4271.0	3069.0	3883.4	3311.0	861.7	543.0
82.5°	88.5	74.8	90.4	238.0	424.9	2661.8	3074.9	1876.7	1487.2	291.1	369.9
85°	31.4	25.5	43.2	163.3	283.3	816.3	2850.6	1577.8	1239.4	141.6	281.4
87.5°	5.9	5.9	17.7	66.8	114.0	249.8	1686.0	936.5	627.5	84.5	192.9
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°	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4	7438.4
2.5°	7414.8	7330.1	7216.0	7076.4	6911.0	6765.6	6657.2	6545.1	6521.5	6482.3	6476.4
5°	7365.6	7220.0	6936.7	6612.1	6265.8	5953.0	5699.3	5473.1	5372.8	5286.1	5276.2
7.5°	7292.7	7074.4	6592.3	6069.2	5528.1	5036.3	4619.3	4324.2	4052.7	3922.7	3903.1
10°	7208.2	6895.4	6204.9	5479.0	4731.4	4036.9	3417.2	2897.8	2583.1	2396.2	2372.6
12.5°	7129.5	6720.3	5809.5	4867.1	3873.6	2945.1	2148.2	1652.5	1322.0	1188.2	1172.5
15°	7092.1	6578.6	5439.6	4241.5	2976.5	1874.8	1174.4	908.9	800.7	769.1	767.2
17.5°	7088.2	6458.7	5077.6	3594.3	2085.3	1089.9	765.3	698.3	676.8	668.8	668.8
20°	7086.2	6344.5	4715.6	2923.4	1324.0	725.9	637.4	621.6	606.0	596.1	596.1
22.5°	7107.9	6242.2	4337.9	2238.8	834.0	588.3	560.7	544.9	525.3	511.5	509.4
25°	7129.5	6163.6	3952.4	1593.5	603.9	511.5	483.9	462.2	434.8	417.1	415.0
27.5°	7133.4	6065.2	3539.1	1066.3	505.6	446.6	411.2	377.7	346.3	328.6	326.5
30°	7074.4	5899.9	3080.8	720.0	446.6	387.6	340.4	305.0	275.5	261.6	261.6
32.5°	6958.2	5695.3	2577.2	543.0	397.3	332.4	281.4	247.9	228.3	222.4	220.3
35°	6854.1	5475.0	2059.7	460.3	356.0	281.4	230.2	208.5	196.7	194.8	192.9
37.5°	6793.0	5297.9	1573.9	417.1	316.8	236.1	194.8	179.0	173.1	169.2	171.2
40°	6840.2	5150.4	1162.6	381.7	277.4	196.7	165.2	157.4	151.5	149.4	149.4
42.5°	7046.9	5124.8	863.7	350.1	240.1	163.3	143.5	137.6	133.8	131.7	133.8
45°	7589.8	5282.1	670.9	320.6	202.6	137.6	122.0	119.9	118.0	118.0	118.0
47.5°	8406.3	5606.7	558.8	287.3	169.2	118.0	106.2	104.3	102.2	104.3	104.3
50°	9789.3	6200.9	499.7	253.8	139.7	100.3	90.4	90.4	90.4	90.4	92.5
52.5°	11892.4	7369.5	460.3	220.3	114.0	84.5	76.7	76.7	78.6	78.6	80.7
55°	14235.4	8919.7	424.9	187.0	96.3	70.8	63.0	64.9	66.8	68.9	68.9
57.5°	16777.1	10637.2	395.4	153.4	82.6	57.1	53.1	55.0	57.1	60.9	60.9
60°	19844.1	12496.3	352.2	119.9	68.9	45.3	41.3	45.3	51.2	55.0	57.1
62.5°	23212.1	14294.4	297.0	94.4	57.1	35.4	33.5	41.3	49.1	53.1	55.0
65°	25513.9	14858.9	228.3	76.7	43.2	25.5	27.6	37.3	47.2	53.1	53.1
67°	24581.3	13472.0	187.0	64.9	35.4	19.6	25.5	37.3	47.2	51.2	53.1
67.5°	23934.2	12929.0	179.0	63.0	33.5	19.6	25.5	37.3	47.2	53.1	53.1
70°	19474.3	9712.5	149.4	47.2	27.6	17.7	21.7	35.4	45.3	51.2	51.2
72.5°	13531.1	5988.5	133.8	33.5	23.6	15.8	19.6	33.5	43.2	49.1	51.2
75°	6433.0	2167.9	114.0	25.5	21.7	13.7	17.7	33.5	43.2	49.1	49.1
77.5°	1312.2	503.5	92.5	21.7	17.7	13.7	15.8	31.4	41.3	47.2	47.2
80°	430.8	194.8	68.9	19.6	17.7	13.7	15.8	29.5	41.3	45.3	47.2
82.5°	310.9	98.4	45.3	19.6	17.7	13.7	13.7	29.5	39.4	45.3	45.3
85°	238.0	68.9	29.5	19.6	17.7	13.7	13.7	27.6	37.3	43.2	43.2
87.5°	157.4	27.6	23.6	19.6	17.7	13.7	13.7	27.6	35.4	41.3	43.2
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)