

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: P321701

Luminaire Tested: **GAN-SA7D-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42209 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

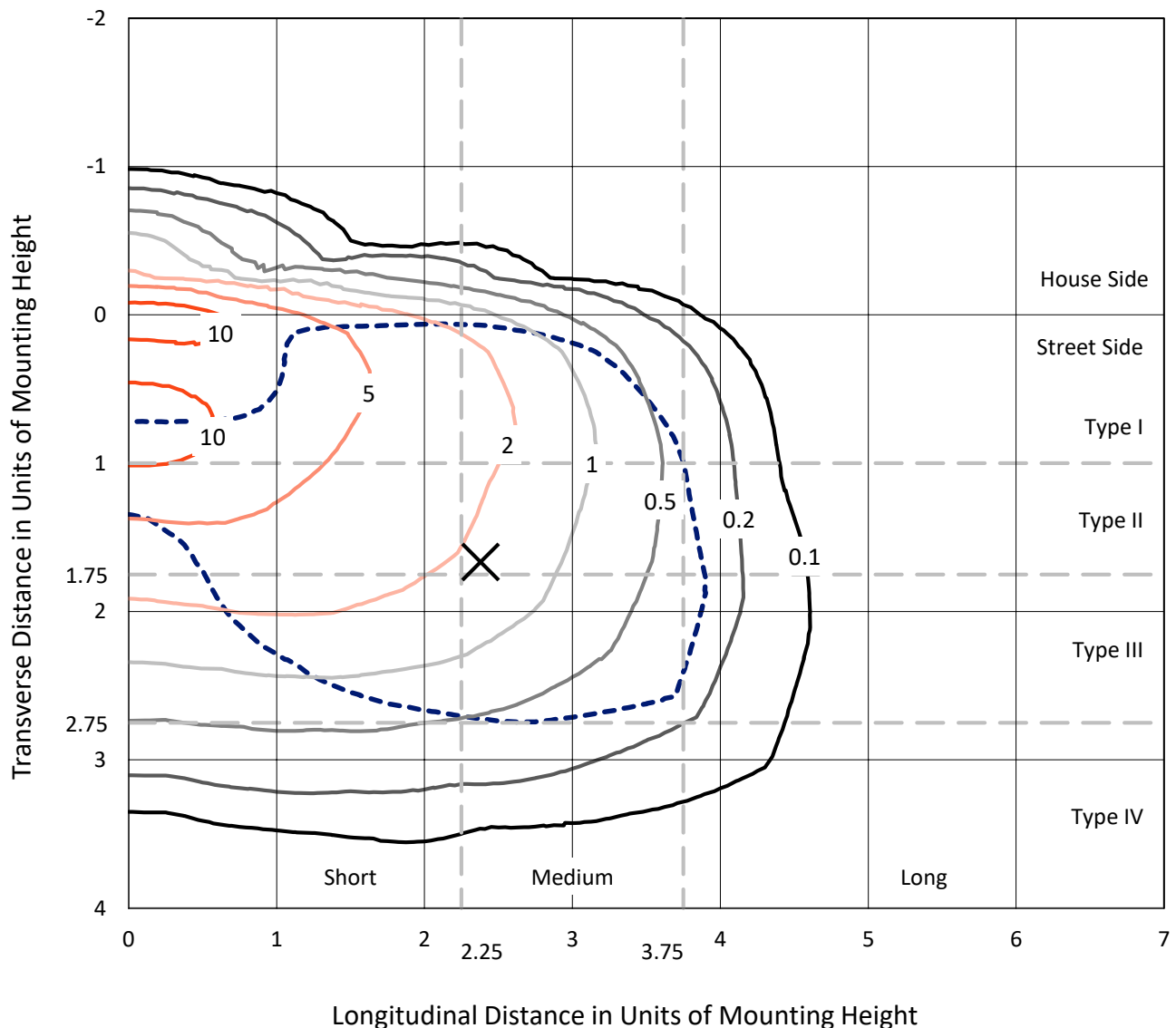
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

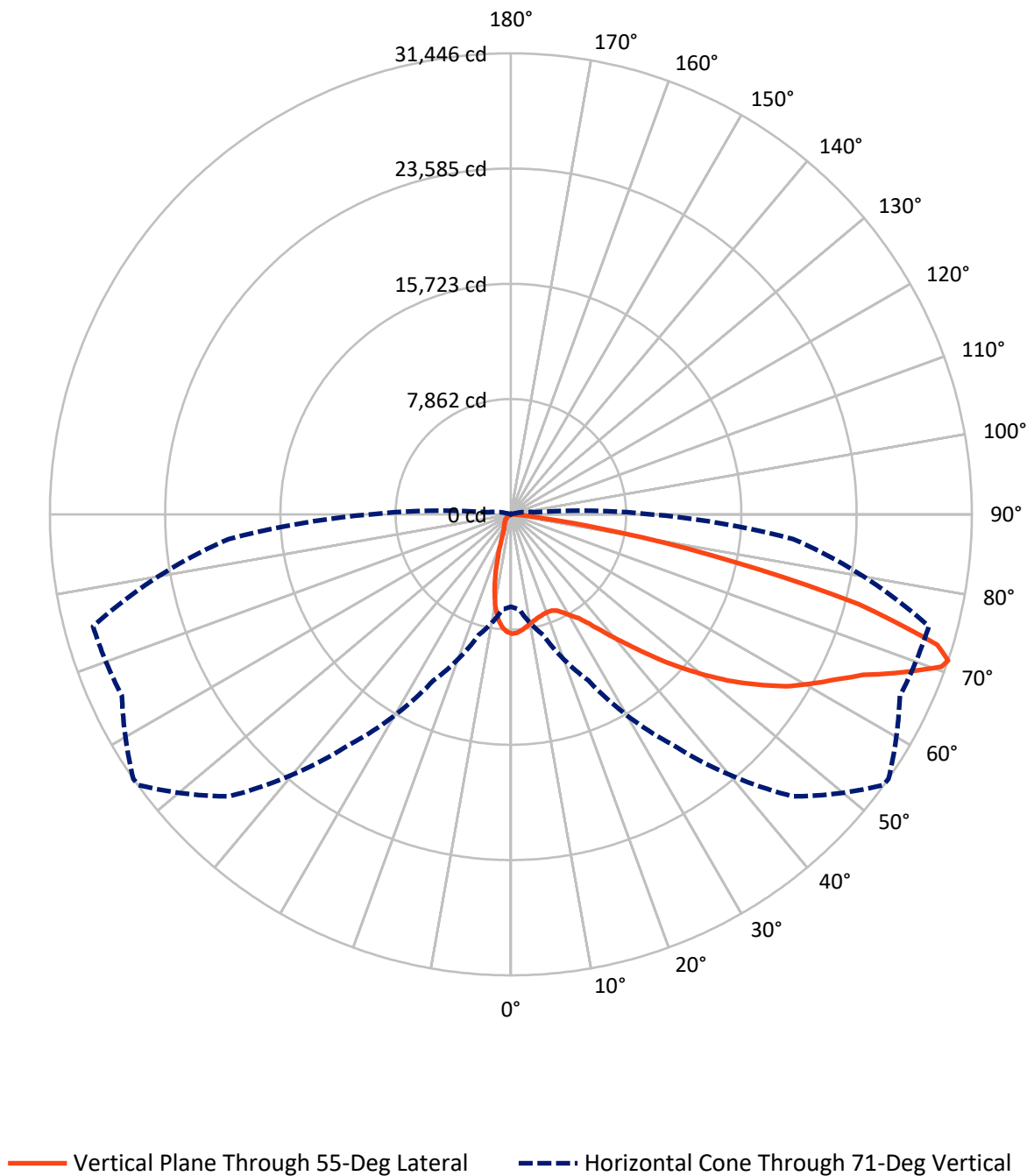
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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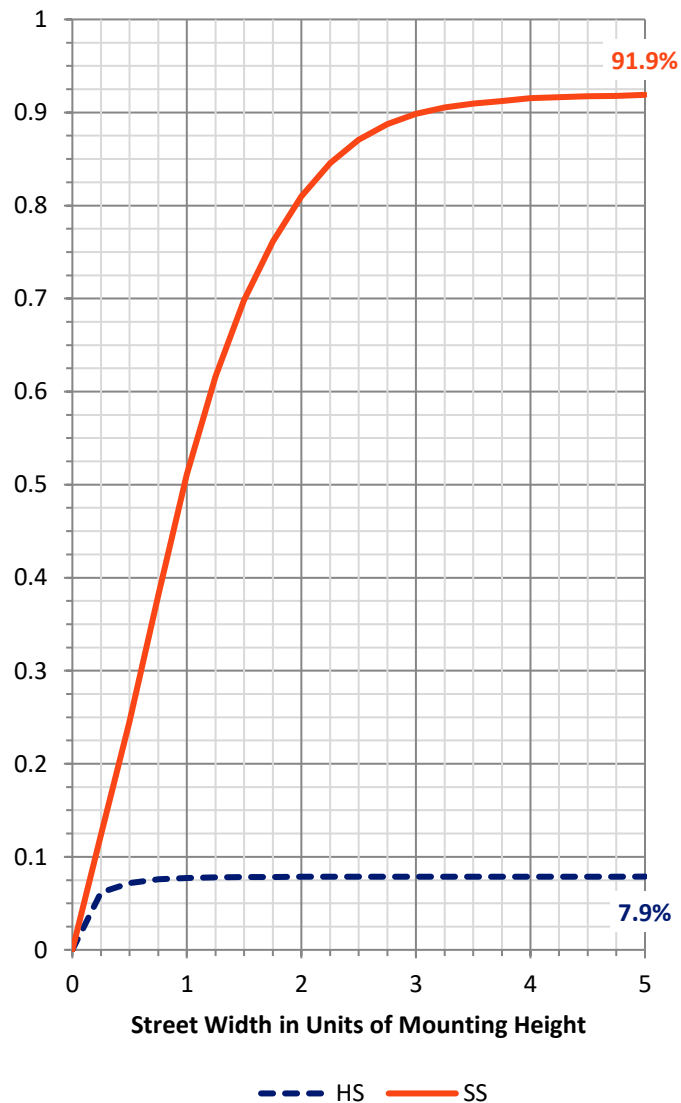
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.8	0.0	3341.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	38867.2	0.0	38867.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	42209.0	0.0	42209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.1	1.6
10°-20°	1566.9	3.7
20°-30°	2518.0	6.0
30°-40°	4278.3	10.1
40°-50°	6640.4	15.7
50°-60°	8927.9	21.2
60°-70°	10921.7	25.9
70°-80°	6385.7	15.1
80°-90°	276.0	0.7
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°	42209.0	100.0
0°-180°	42209.0	100.0

Coefficient of Utilization



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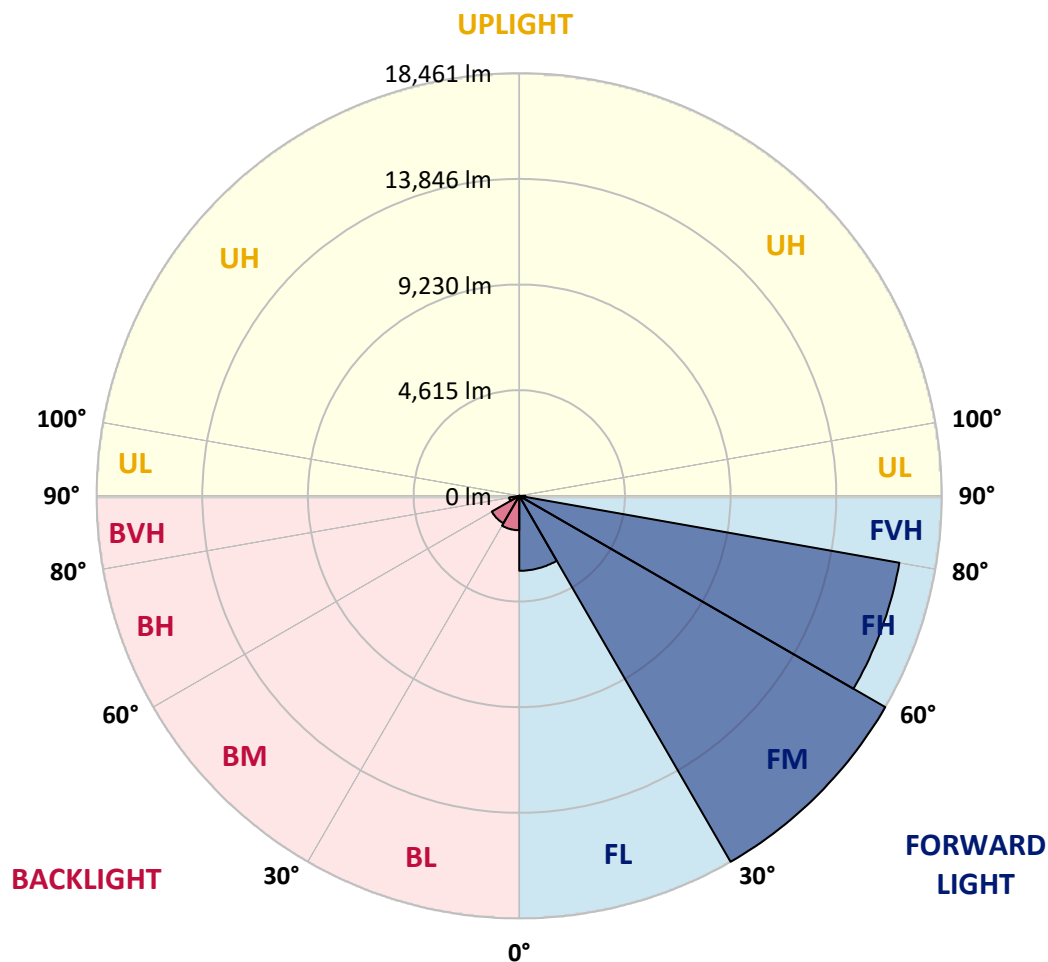
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3274.8	7.8			
FM	(30°-60°)	18461.0	43.7			
FH	(60°-80°)	16859.7	39.9			G5
FVH	(80°-90°)	271.7	0.6			G3/500
BL	(0°-30°)	1504.2	3.6	B3/2500		
BM	(30°-60°)	1385.6	3.3	B2/2500		
BH	(60°-80°)	447.7	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	54°	55°	65°	75°	85°
0°	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2
2.5°	7901.4	7910.8	7944.9	7960.1	7996.1	8056.8	8087.1	8089.0	8138.3	8157.2	8172.4
5°	7342.3	7399.1	7456.0	7516.6	7626.5	7772.5	7916.5	7929.8	8089.0	8206.5	8269.0
7.5°	6860.9	6912.0	6980.3	7076.9	7232.3	7461.7	7702.4	7730.8	8032.1	8299.4	8439.6
10°	6366.2	6407.9	6506.4	6648.6	6862.7	7169.8	7493.9	7541.3	7981.0	8424.4	8670.8
12.5°	5837.4	5862.1	5981.5	6186.1	6500.8	6891.2	7317.6	7380.2	7948.7	8568.5	8943.7
15°	5435.6	5447.0	5560.7	5773.0	6133.1	6641.0	7181.2	7257.0	7956.3	8741.0	9241.3
17.5°	5333.3	5339.0	5399.6	5545.5	5863.9	6417.4	7073.1	7166.0	7979.1	8909.6	9540.8
20°	5748.3	5708.5	5646.0	5623.2	5759.7	6282.8	7008.7	7112.9	8009.4	9059.4	9809.9
22.5°	6887.4	6769.9	6510.2	6163.4	5953.0	6292.3	7025.7	7130.0	8106.0	9243.2	10120.7
25°	8578.0	8415.0	7973.4	7291.1	6635.3	6565.2	7167.9	7274.0	8293.7	9463.1	10418.3
27.5°	10501.7	10340.6	9800.4	8826.2	7708.0	7105.3	7493.9	7592.4	8572.3	9658.3	10645.7
30°	12343.9	12298.4	11661.6	10554.7	9057.5	7981.0	7914.6	7998.0	8778.9	9775.8	10825.7
32.5°	13905.5	13833.5	13321.8	12245.3	10602.1	9032.8	8409.3	8433.9	8934.3	9927.4	11060.8
35°	15353.5	15264.5	14815.3	13797.5	12186.5	10317.8	9171.2	9135.2	9273.5	10232.5	11401.9
37.5°	16617.7	16699.2	16200.7	15232.2	13608.0	11654.0	10198.4	10090.4	9804.2	10729.1	11896.6
40°	17675.2	17675.2	17415.6	16608.2	15143.2	13035.6	11360.2	11218.1	10602.1	11494.8	12523.9
42.5°	18056.2	18137.7	18234.3	17777.6	16517.2	14472.2	12654.7	12506.8	11726.0	12580.8	13316.1
45°	18078.9	18207.8	18702.5	18700.6	17758.6	15899.4	14114.0	14043.9	13166.4	13975.7	14297.9
47.5°	17758.6	17919.7	18734.7	19197.1	18742.3	17227.9	15709.8	15622.7	14858.9	15685.2	15325.1
50°	17264.0	17442.1	18389.7	19392.3	19411.3	18384.1	17390.9	17260.2	16721.9	17639.2	16386.4
52.5°	16378.9	16723.8	18080.8	19437.8	19851.0	19382.9	18990.5	18933.7	18806.7	19521.2	17231.7
55°	14485.5	14868.3	17305.7	19453.0	20258.5	20267.9	20489.7	20504.9	20760.7	21280.0	17861.0
57.5°	13590.9	13807.0	15952.4	19525.0	20863.1	21272.4	22017.3	22134.8	22530.9	22949.7	18579.3
60°	13028.0	13283.9	15285.3	19426.5	21812.6	22589.6	23433.0	23472.8	23897.4	24672.5	19551.5
62.5°	12578.9	12830.9	14864.6	19047.4	22879.6	24174.1	24816.6	24820.4	25138.8	26725.1	20656.5
65°	11470.1	11682.4	14013.6	18621.0	23584.7	25741.5	26423.8	26399.1	26658.8	28889.5	21939.6
67.5°	9866.7	10029.7	12275.6	17004.3	23319.3	27166.7	28849.7	28768.2	28453.6	30760.1	22443.7
70°	7628.4	7687.2	9675.3	14170.9	20832.7	27714.4	31194.1	31152.4	29554.7	30424.7	20595.8
71°	6305.5	6498.9	8526.8	12506.8	19166.8	27208.4	31421.6	31446.2	29278.0	29511.1	19324.1
72.5°	3661.6	3826.5	6180.5	9605.2	16272.7	25097.1	30242.7	30420.9	27985.5	26842.6	16505.9
75°	784.6	839.6	2291.4	4649.1	8951.3	17589.9	23870.8	24505.8	22809.5	18260.9	9948.2
77.5°	545.8	589.4	981.7	2109.4	2958.5	8691.7	14828.5	15545.0	13626.9	6862.7	3184.0
80°	432.1	481.4	765.7	1042.4	799.8	2803.1	6946.1	7383.9	4544.8	1531.4	536.4
82.5°	240.7	286.2	597.0	562.9	307.0	532.6	1944.5	2198.5	909.7	308.9	127.0
85°	70.1	85.3	384.7	409.4	130.8	102.3	331.7	411.3	172.5	81.5	56.9
87.5°	0.0	0.0	185.7	157.3	37.9	15.2	30.3	34.1	34.1	34.1	37.9
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°	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2	8140.2
2.5°	8172.4	8185.6	8138.3	8075.7	8009.4	7927.9	7842.6	7776.3	7774.4	7742.2	7709.9
5°	8272.8	8265.2	8134.5	7935.5	7700.5	7456.0	7222.8	6959.4	6872.2	6764.2	6728.2
7.5°	8458.6	8405.5	8128.8	7692.9	7177.4	6665.6	6136.9	5604.3	5376.9	5172.2	5136.2
10°	8691.7	8591.2	8092.8	7329.0	6383.2	5439.4	4641.5	3917.5	3599.1	3354.6	3343.2
12.5°	8934.3	8780.8	7992.3	6779.4	5342.7	4016.1	3096.9	2384.2	2118.9	1948.3	1963.5
15°	9188.2	8958.9	7776.3	6038.3	4158.2	2725.4	1902.8	1484.0	1377.9	1334.3	1345.6
17.5°	9447.9	9082.1	7474.9	5145.6	2988.8	1758.8	1317.2	1199.7	1199.7	1209.2	1213.0
20°	9673.4	9148.4	7031.4	4144.9	2026.0	1281.2	1152.3	1135.3	1144.7	1159.9	1161.8
22.5°	9897.1	9152.2	6453.4	3131.0	1417.7	1122.0	1097.4	1089.8	1095.5	1112.5	1114.4
25°	10079.0	9106.7	5729.4	2226.9	1131.5	1057.6	1046.2	1042.4	1046.2	1067.0	1067.0
27.5°	10152.9	8941.9	4846.2	1565.5	1014.0	985.5	981.7	985.5	991.2	1006.4	1008.3
30°	10160.5	8653.8	3883.4	1133.4	919.2	888.9	896.5	909.7	904.0	900.3	904.0
32.5°	10179.5	8320.2	2945.2	932.5	839.6	792.2	782.7	782.7	760.0	746.7	739.2
35°	10242.0	7927.9	2136.0	837.7	758.1	703.1	667.1	625.4	581.8	559.1	553.4
37.5°	10340.6	7516.6	1529.5	775.2	686.1	623.5	555.3	481.4	418.9	401.8	401.8
40°	10520.6	7092.1	1131.5	725.9	629.2	551.5	449.2	352.5	295.7	286.2	286.2
42.5°	10804.9	6644.8	902.1	682.3	580.0	477.6	343.0	255.9	214.2	208.5	206.6
45°	11100.6	6152.0	788.4	640.6	526.9	392.3	254.0	189.5	164.9	159.2	159.2
47.5°	11396.2	5627.0	733.5	600.8	475.7	305.1	189.5	149.7	138.4	138.4	140.2
50°	11646.4	5079.3	693.7	557.2	409.4	231.2	149.7	127.0	123.2	130.8	132.7
52.5°	11708.9	4541.1	644.4	502.2	327.9	176.3	123.2	111.8	111.8	111.8	111.8
55°	11671.0	4124.1	580.0	434.0	242.6	140.2	106.1	98.6	96.7	96.7	96.7
57.5°	11799.9	3877.7	464.3	337.4	174.4	113.7	92.9	87.2	83.4	81.5	81.5
60°	12059.6	3716.6	331.7	242.6	130.8	94.8	79.6	73.9	68.2	64.4	64.4
62.5°	12404.5	3576.4	246.4	180.1	100.4	75.8	66.3	60.6	53.1	49.3	49.3
65°	12669.8	3326.2	187.6	134.6	75.8	60.6	51.2	49.3	37.9	34.1	32.2
67.5°	12264.3	2776.6	151.6	98.6	56.9	47.4	39.8	37.9	22.7	19.0	19.0
70°	10518.7	1933.2	121.3	72.0	41.7	37.9	32.2	24.6	17.1	15.2	15.2
71°	9538.9	1614.8	109.9	60.6	36.0	36.0	30.3	20.8	15.2	13.3	13.3
72.5°	7924.1	1146.6	92.9	47.4	32.2	37.9	32.2	19.0	15.2	13.3	11.4
75°	4599.8	479.5	64.4	32.2	24.6	45.5	41.7	17.1	11.4	9.5	9.5
77.5°	1383.5	176.3	36.0	20.8	19.0	39.8	47.4	15.2	5.7	1.9	1.9
80°	252.1	75.8	22.7	13.3	13.3	24.6	36.0	7.6	0.0	0.0	0.0
82.5°	89.1	37.9	13.3	7.6	5.7	11.4	17.1	0.0	0.0	0.0	0.0
85°	51.2	26.5	7.6	3.8	0.0	1.9	3.8	0.0	0.0	0.0	0.0
87.5°	34.1	7.6	0.0	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)