

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: P192987

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39512.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 28.75 FT



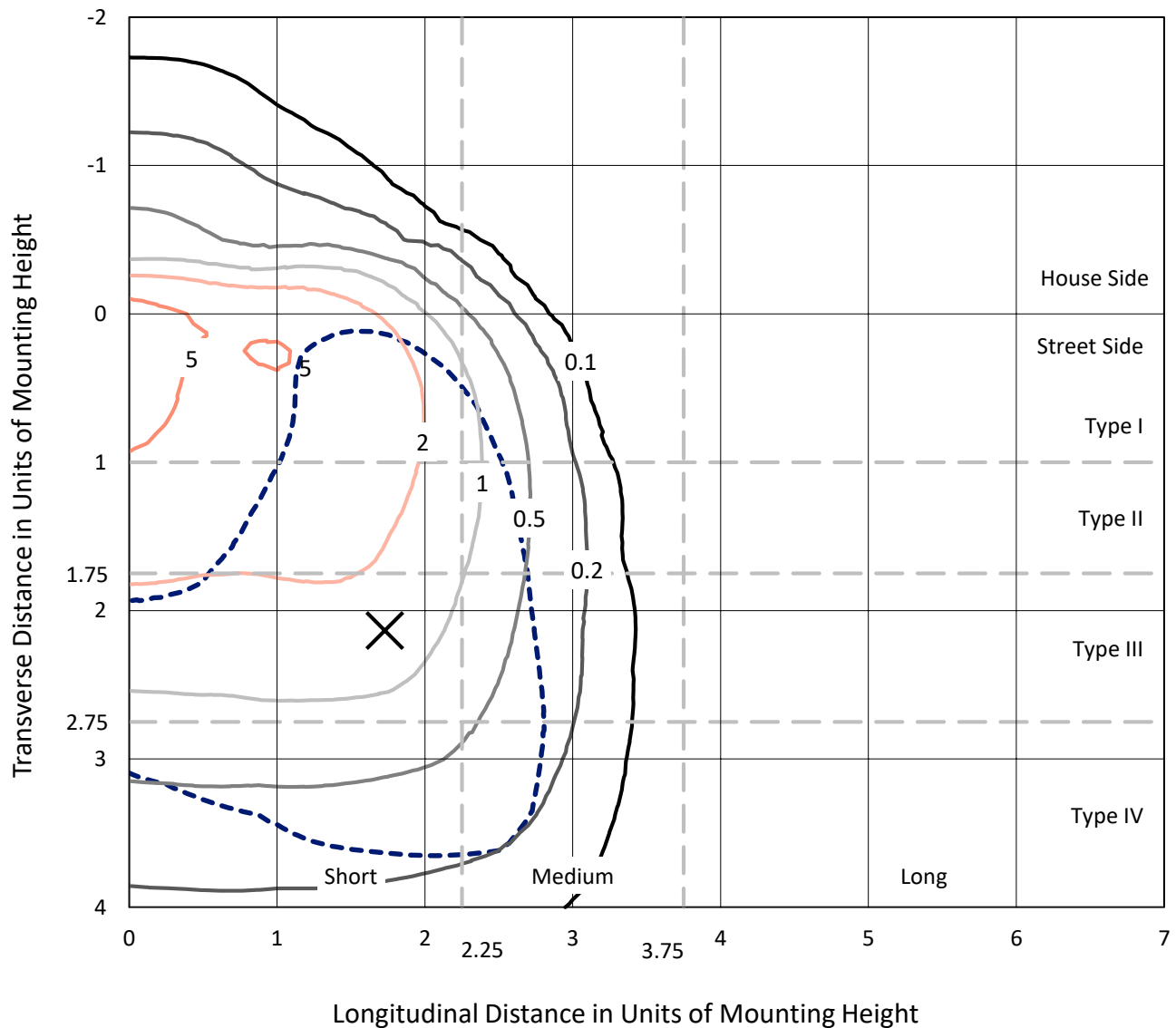
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

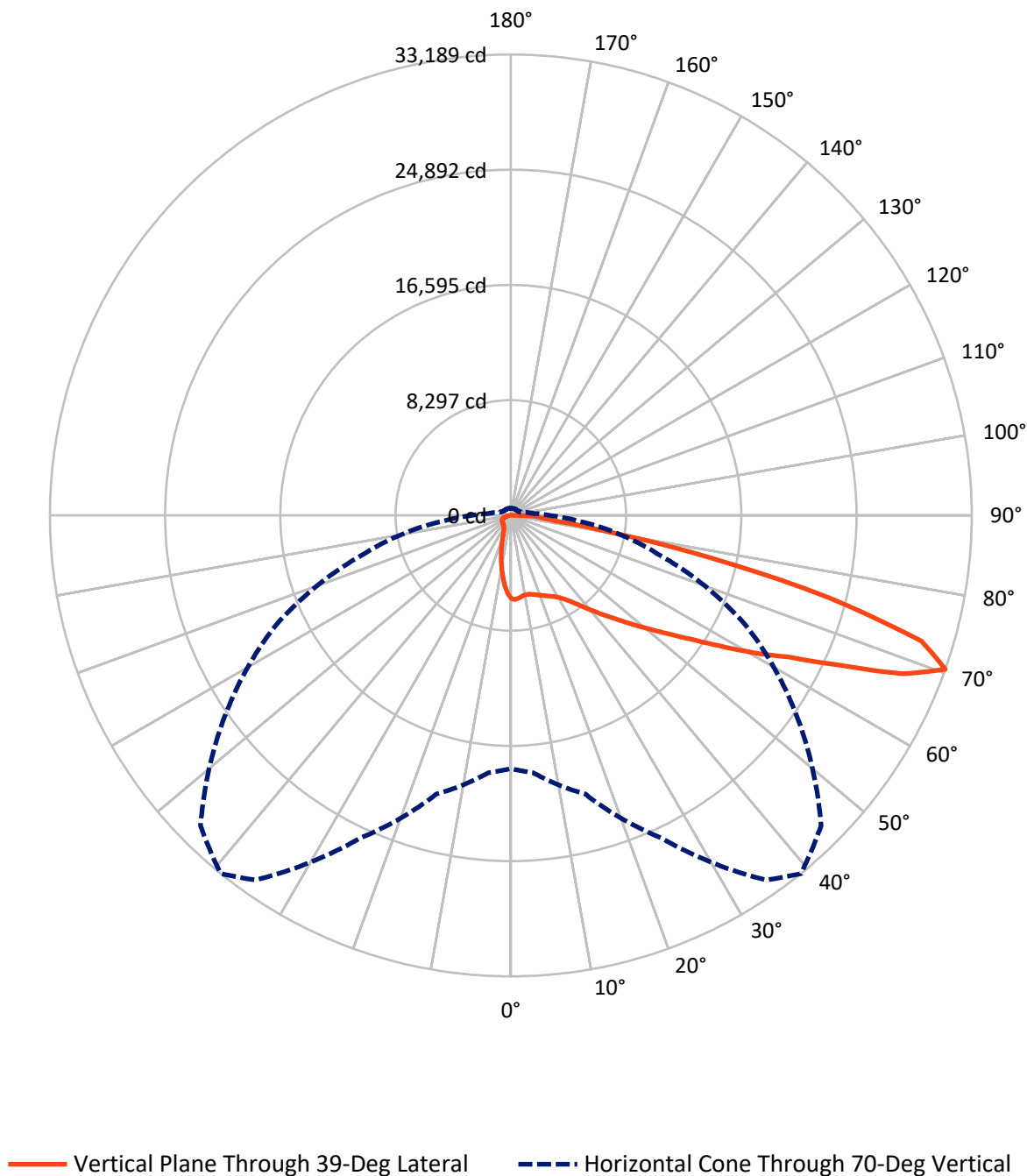


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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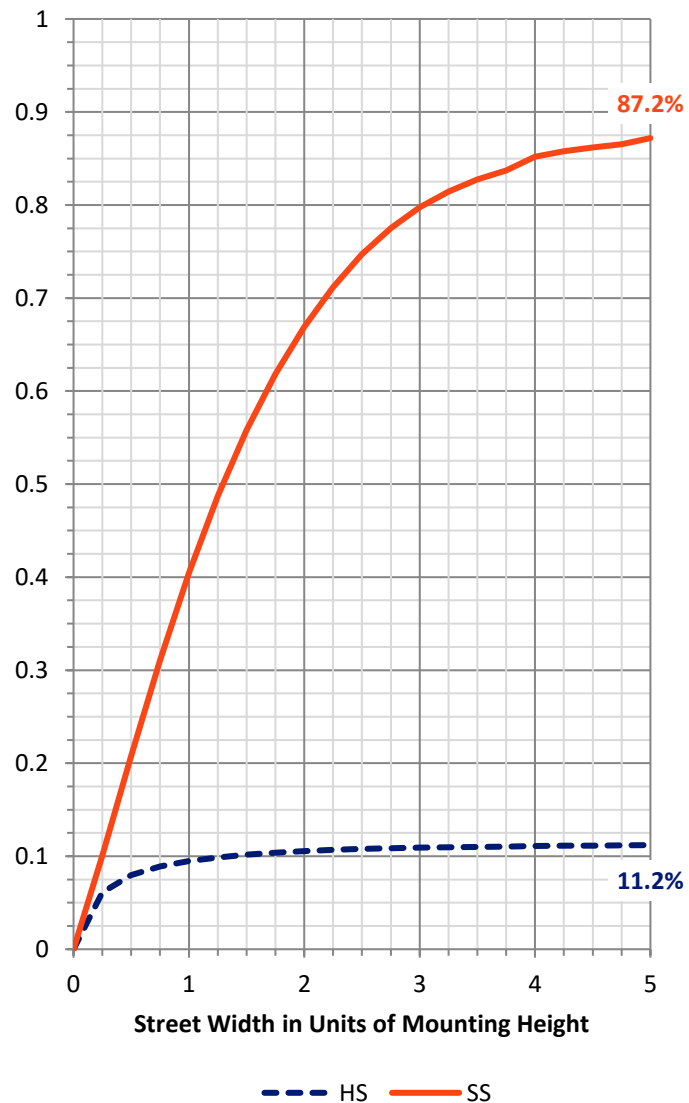
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4493.9	0.0	4493.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	35018.6	0.0	35018.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	39512.5	0.0	39512.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.8	1.3
10°-20°	1286.8	3.3
20°-30°	2003.6	5.1
30°-40°	3121.2	7.9
40°-50°	5240.0	13.3
50°-60°	8324.1	21.1
60°-70°	11103.4	28.1
70°-80°	6705.1	17.0
80°-90°	1213.5	3.1
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°	39512.5	100.0
0°-180°	39512.5	100.0

Coefficient of Utilization



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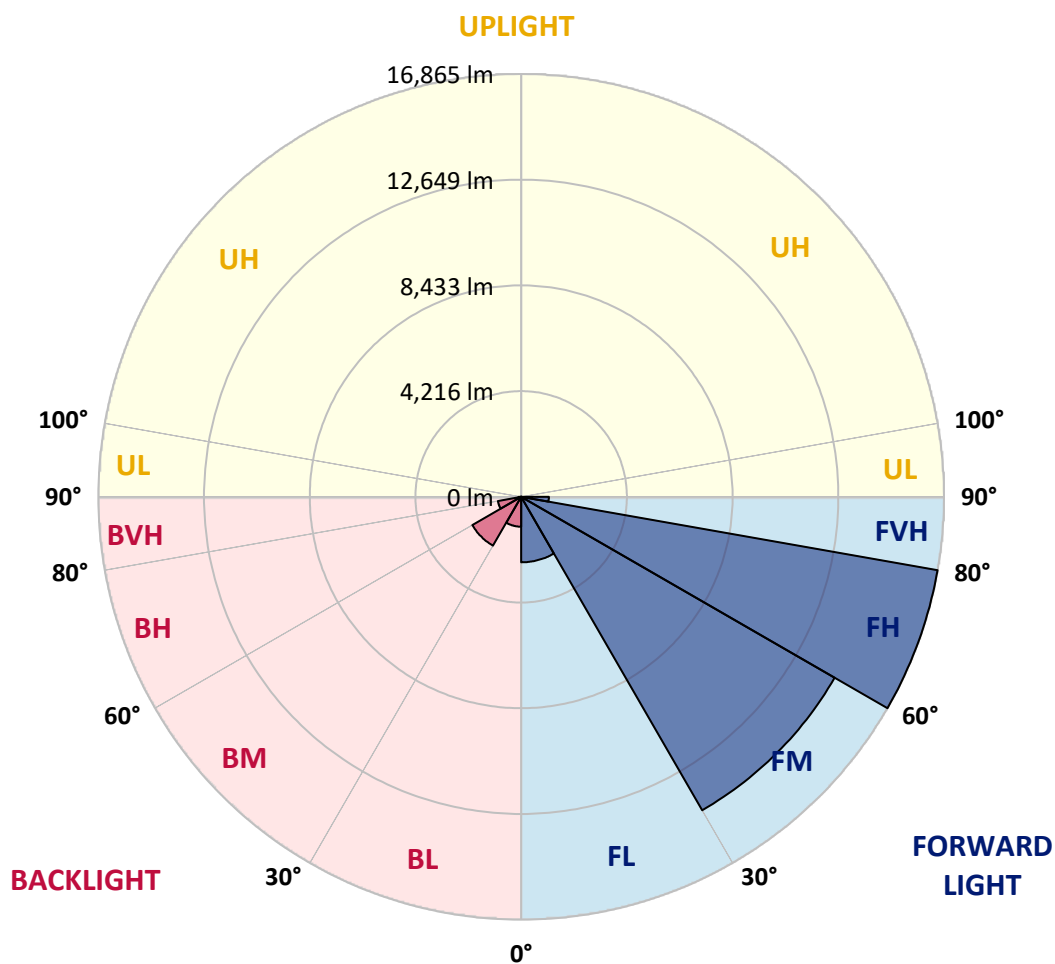
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2613.0	6.6			
FM	(30°-60°)	14436.3	36.5			
FH	(60°-80°)	16865.1	42.7			G5
FVH	(80°-90°)	1104.2	2.8			G5
BL	(0°-30°)	1192.2	3.0	B3/2500		
BM	(30°-60°)	2248.9	5.7	B2/2500		
BH	(60°-80°)	943.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	109.4	0.3			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7
2.5°	6115.1	6113.2	6097.1	6084.9	6075.0	6070.9	6078.9	6048.8	6022.7	5990.5	5956.4
5°	6069.0	6066.9	6040.8	6016.7	5992.6	5984.5	5982.5	5928.3	5896.1	5848.0	5783.6
7.5°	6018.6	6008.6	5974.6	5934.3	5892.2	5872.0	5851.9	5781.7	5745.5	5697.4	5622.9
10°	5966.4	5954.4	5922.3	5882.1	5841.9	5811.8	5777.6	5709.4	5671.2	5635.0	5548.6
12.5°	5912.2	5902.1	5894.1	5876.1	5848.0	5821.9	5795.7	5737.4	5697.4	5655.0	5554.6
15°	5904.2	5900.2	5918.2	5930.3	5914.2	5898.2	5870.1	5819.8	5777.6	5735.4	5604.9
17.5°	5968.5	5966.4	6012.6	6044.8	6036.8	6008.6	5970.5	5914.2	5880.2	5843.9	5681.2
20°	6109.1	6119.2	6175.5	6217.6	6177.4	6137.2	6075.0	5996.5	5978.5	5962.5	5759.6
22.5°	6374.3	6384.3	6424.6	6440.7	6336.2	6277.8	6191.5	6090.9	6078.9	6090.9	5854.0
25°	6788.2	6778.1	6772.0	6711.8	6520.9	6430.6	6320.0	6215.5	6221.6	6275.9	5986.6
27.5°	7336.5	7282.3	7197.9	7017.1	6713.8	6613.4	6478.7	6382.3	6420.5	6525.0	6185.5
30°	7905.0	7844.9	7649.9	7354.7	6966.9	6856.4	6705.8	6597.3	6697.7	6862.5	6450.6
32.5°	8431.4	8423.4	8138.0	7758.4	7316.4	7220.1	7069.4	6946.8	7109.5	7360.7	6848.4
35°	9005.9	9024.0	8682.5	8226.4	7788.5	7688.1	7579.7	7487.2	7704.2	8049.6	7424.9
37.5°	9620.8	9656.9	9253.0	8738.8	8326.9	8284.8	8220.4	8180.2	8515.7	8993.9	8230.5
40°	10442.4	10406.2	9845.7	9317.3	8987.8	8985.9	8965.9	9014.0	9572.4	10227.3	9265.0
42.5°	11322.2	11215.8	10474.4	9938.1	9713.0	9781.4	9821.6	10018.4	10844.1	11726.0	10526.7
45°	12270.5	12031.4	11127.4	10595.0	10518.7	10663.2	10799.9	11227.8	12340.8	13431.6	11908.8
47.5°	13027.7	12796.8	11802.4	11284.1	11450.8	11669.8	11933.0	12609.9	14016.3	15193.4	13273.0
50°	13624.4	13473.8	12483.4	12087.7	12477.4	12814.8	13244.7	14174.9	15759.9	16909.0	14536.5
52.5°	14203.0	14090.5	13170.4	12911.2	13682.7	14148.7	14733.4	15854.3	17547.8	18596.5	15599.2
55°	14725.3	14645.0	13909.7	13937.8	15100.9	15707.6	16443.0	17766.8	19496.5	20101.2	16499.2
57.5°	15313.9	15211.5	14753.5	15225.5	16923.0	17710.6	18666.8	19916.4	21324.5	21439.1	17184.2
60°	15906.6	15818.2	15689.6	16712.2	19237.4	20065.0	20971.0	21999.6	23178.8	22477.7	17144.1
62.5°	16420.9	16430.9	16657.8	18273.1	21503.5	22461.6	23566.5	24583.2	24856.3	22658.5	15876.5
65°	17292.7	17451.4	18128.4	20482.9	24693.5	25975.2	27331.2	27168.5	25320.3	20969.0	13158.4
67.5°	18329.4	18608.6	19980.7	23427.9	28725.5	30426.9	30951.3	27753.2	23462.2	17045.6	9379.6
70°	18224.9	18608.6	20780.2	25623.7	32048.2	33189.2	31598.3	25117.4	18630.7	11135.3	4982.1
72.5°	16183.8	16732.2	19151.0	24617.2	31001.5	30901.1	27431.7	18725.1	11069.0	4471.9	1946.7
75°	12334.8	12889.2	14970.3	19448.2	24502.7	23659.0	19464.3	10343.9	4200.6	1775.9	1227.4
77.5°	7095.6	7525.3	9132.6	11927.0	15545.0	14679.1	10834.0	4600.4	2045.2	1237.5	958.2
80°	3961.5	4200.6	5176.9	6050.9	7617.8	6983.0	4847.5	2858.7	1526.8	898.0	739.2
82.5°	3131.9	3344.9	4186.6	3817.0	3479.5	3210.2	2784.4	2545.3	1219.5	566.5	442.0
85°	2736.2	2939.1	3543.8	3005.2	2376.5	2179.7	2262.0	2505.1	948.3	341.6	377.7
87.5°	2535.3	2806.5	3158.0	2316.3	1850.2	1639.3	2087.3	2746.2	305.4	212.9	152.6
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°	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7
2.5°	5926.3	5894.1	5841.9	5795.7	5723.4	5685.2	5643.0	5612.8	5588.8	5568.7	5600.8
5°	5743.4	5683.2	5572.8	5454.2	5313.6	5203.0	5110.7	5024.3	4963.9	4923.9	4951.9
7.5°	5570.7	5472.2	5299.5	5084.6	4843.5	4638.6	4469.8	4321.2	4218.7	4152.4	4178.5
10°	5472.2	5349.8	5082.5	4745.0	4389.5	4070.0	3804.9	3575.8	3417.2	3326.7	3340.8
12.5°	5448.2	5289.5	4919.8	4455.8	3969.6	3525.7	3152.0	2834.6	2611.7	2495.1	2499.1
15°	5466.2	5263.3	4767.2	4178.5	3563.8	3003.3	2537.2	2151.6	1892.4	1759.8	1757.8
17.5°	5496.4	5243.3	4606.5	3879.2	3152.0	2501.1	1980.8	1603.2	1374.1	1267.6	1259.5
20°	5528.5	5211.1	4425.6	3555.8	2724.1	2035.1	1550.8	1255.6	1110.9	1052.7	1048.7
22.5°	5574.7	5183.0	4238.8	3214.3	2304.2	1657.4	1275.7	1076.8	1000.5	970.3	966.3
25°	5649.0	5168.9	4040.0	2858.7	1926.6	1386.2	1110.9	988.4	944.2	924.2	922.0
27.5°	5773.6	5189.0	3853.1	2513.2	1619.2	1203.4	1018.6	944.2	912.1	894.0	892.0
30°	5934.3	5251.3	3656.3	2185.7	1380.2	1078.8	962.2	914.1	888.0	869.8	869.8
32.5°	6201.5	5355.8	3449.4	1902.4	1209.4	992.4	920.1	888.0	865.9	851.7	849.8
35°	6595.2	5552.7	3256.5	1667.4	1086.8	930.2	883.9	859.8	843.7	835.8	835.8
37.5°	7167.9	5864.1	3085.7	1498.6	1012.5	888.0	849.8	831.7	821.6	821.6	821.6
40°	7937.2	6293.9	2947.0	1386.2	970.3	857.8	823.7	809.6	803.6	805.6	805.6
42.5°	8887.4	6852.4	2854.6	1307.9	950.2	839.7	805.6	793.6	787.5	785.5	787.5
45°	9970.2	7487.2	2844.7	1249.6	930.2	827.6	793.6	781.4	769.4	761.4	761.4
47.5°	11022.9	8132.0	2926.9	1229.5	908.1	813.7	783.5	771.4	753.4	735.4	735.4
50°	11953.1	8680.5	3037.5	1237.5	900.0	793.6	767.4	761.4	733.2	713.1	711.2
52.5°	12692.3	9102.4	3127.9	1261.6	908.1	779.4	747.4	749.3	719.2	697.1	695.1
55°	13285.0	9379.6	3103.7	1285.7	926.1	771.4	729.2	733.2	709.1	687.0	687.0
57.5°	13544.1	9277.2	2836.6	1265.7	940.1	773.4	715.2	731.3	711.2	691.1	691.1
60°	12987.6	8367.1	2336.4	1177.3	922.0	767.4	709.1	739.2	737.3	717.2	715.2
62.5°	11304.2	6737.9	1812.1	1046.6	859.8	737.3	693.0	737.3	759.4	753.4	751.3
65°	8712.7	4799.3	1384.1	906.0	775.4	687.0	650.8	691.1	721.2	729.2	727.2
67.5°	5655.0	2941.0	1066.7	773.4	681.0	628.8	596.7	614.7	620.7	620.7	616.8
70°	2780.3	1583.0	849.8	650.8	584.6	566.5	548.5	538.4	528.4	520.3	520.3
72.5°	1372.1	1034.5	699.1	550.4	504.2	496.2	492.2	480.0	472.1	462.0	458.1
75°	1014.5	841.8	594.6	464.1	434.0	425.9	434.0	423.9	421.8	413.9	409.8
77.5°	833.6	717.2	512.3	397.8	371.7	357.6	369.7	371.7	373.6	361.6	357.6
80°	677.0	606.7	427.9	329.4	305.4	295.3	303.3	319.4	323.4	305.4	297.3
82.5°	488.2	496.2	345.6	257.1	237.1	229.0	245.1	265.2	269.3	243.1	237.1
85°	409.8	413.9	265.2	182.8	162.7	150.7	176.8	196.8	211.0	184.8	178.7
87.5°	170.8	243.1	152.6	102.4	90.3	78.3	94.4	104.5	126.5	116.5	114.5
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)