

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: P192703

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23849.1 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 210
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



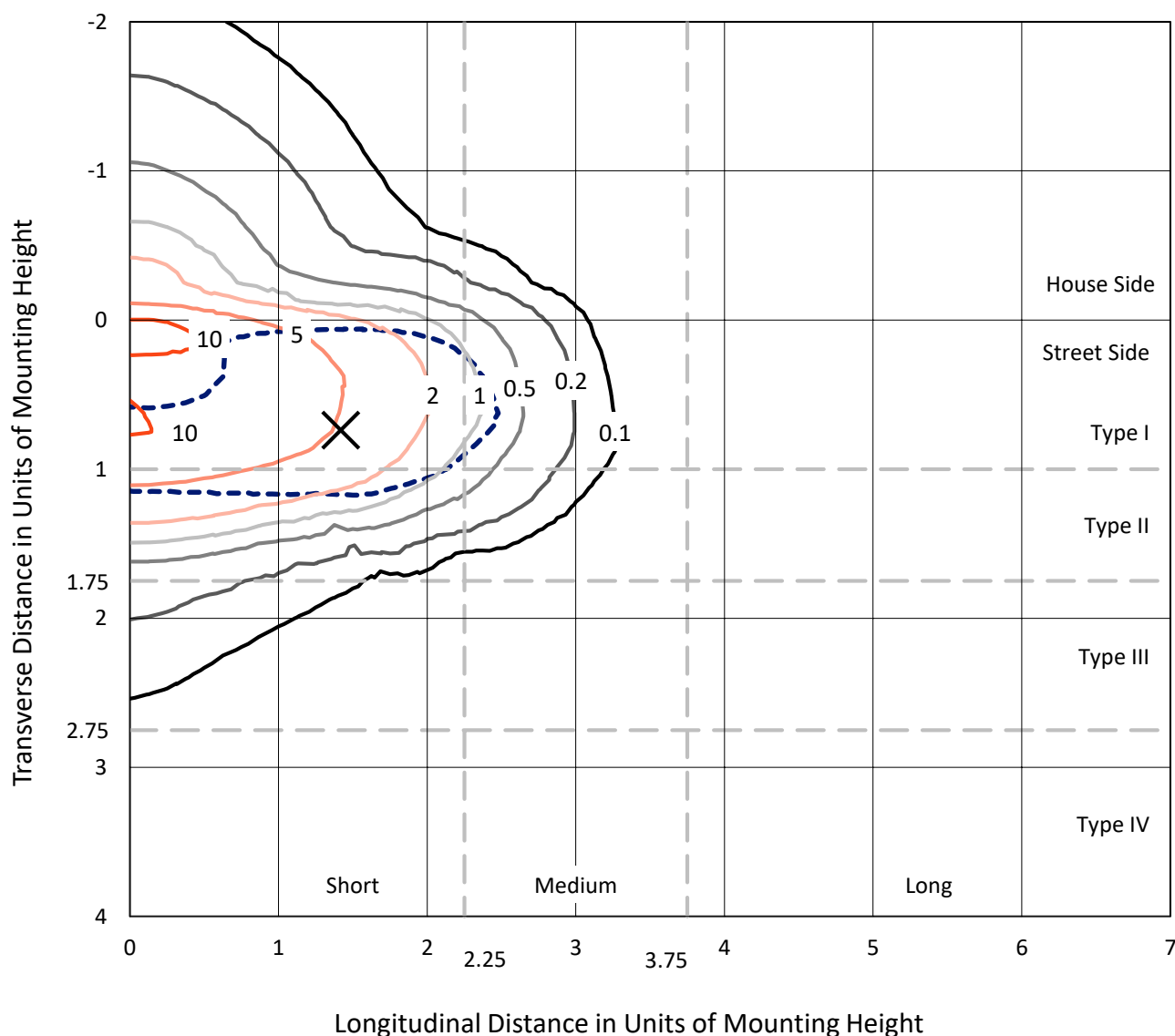
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

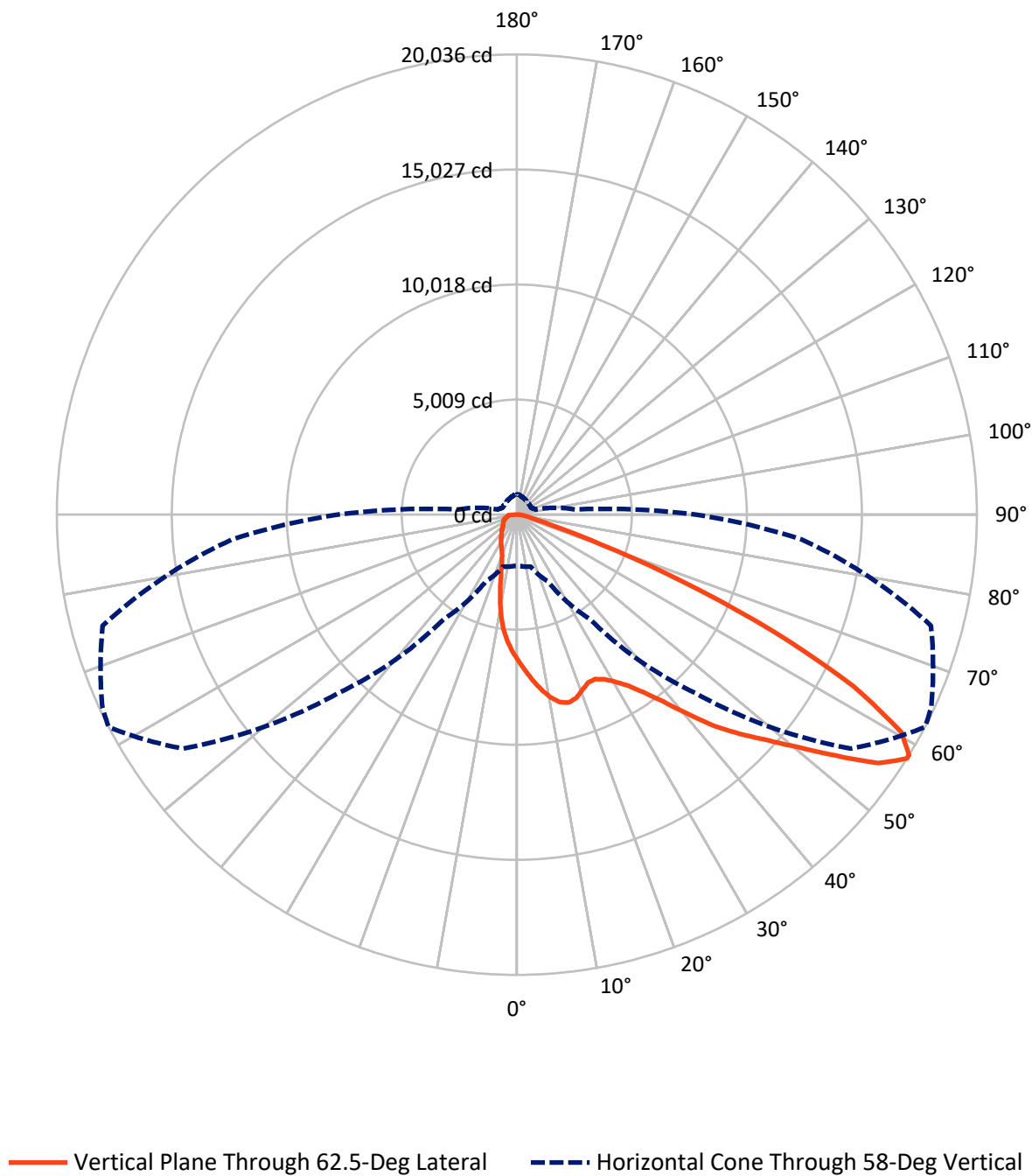


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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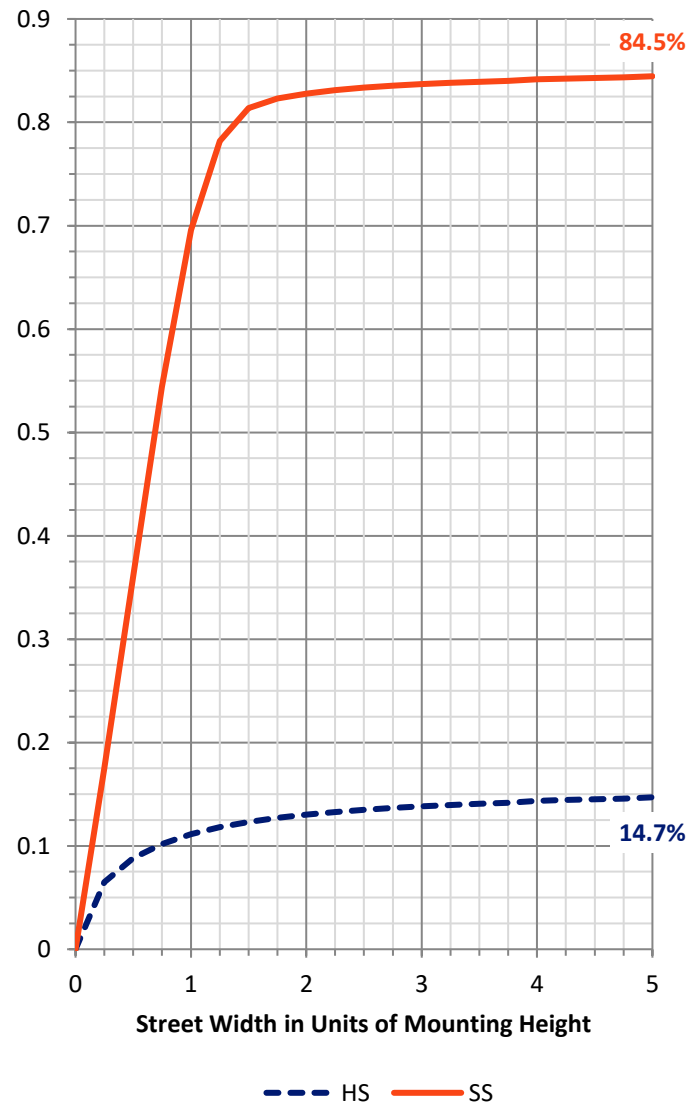
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3637.1	0.0	3637.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20212.0	0.0	20212.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	23849.1	0.0	23849.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.6	2.4
10°-20°	1448.3	6.1
20°-30°	2341.2	9.8
30°-40°	3716.6	15.6
40°-50°	5438.1	22.8
50°-60°	5687.8	23.8
60°-70°	3360.4	14.1
70°-80°	946.6	4.0
80°-90°	343.7	1.4
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°	23849.1	100.0
0°-180°	23849.1	100.0

Coefficient of Utilization



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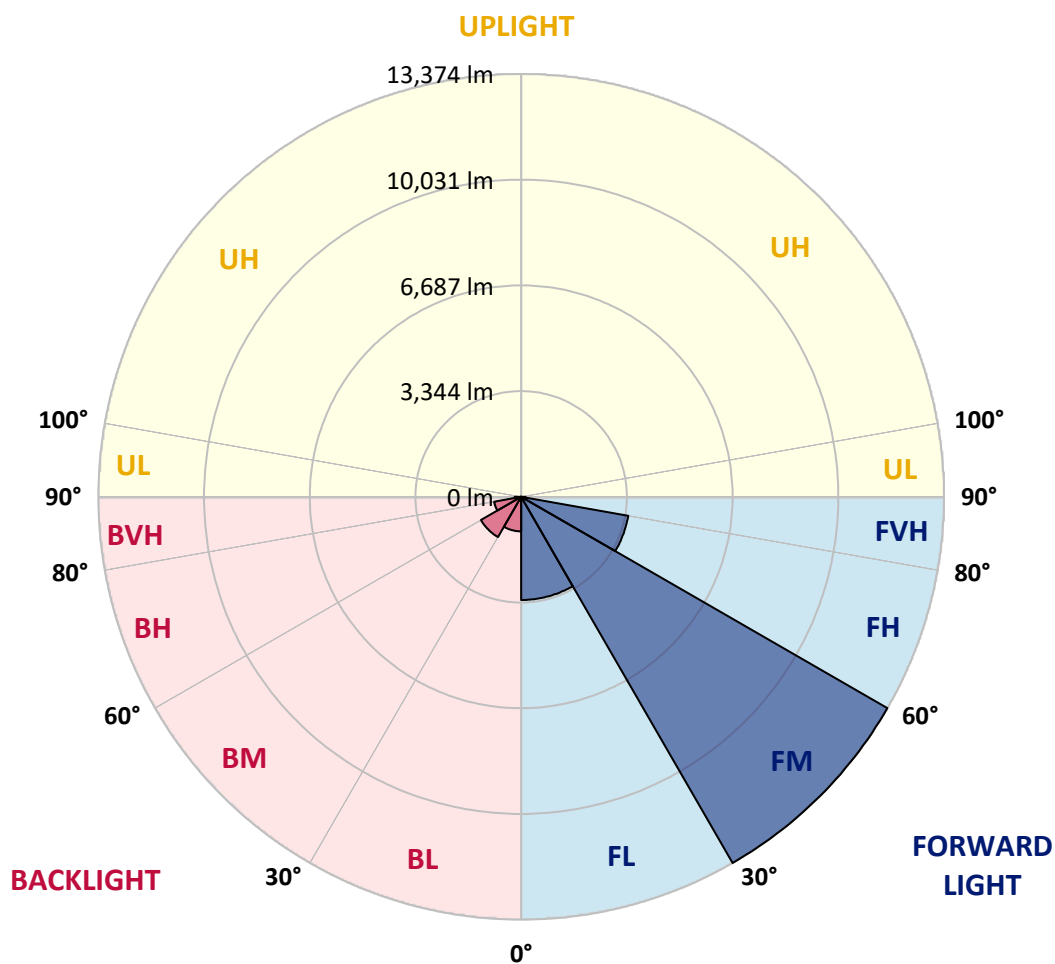
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3262.9	13.7			
FM	(30°-60°)	13374.5	56.1			
FH	(60°-80°)	3439.1	14.4			G2/5000
FVH	(80°-90°)	135.6	0.6			G2/225
BL	(0°-30°)	1093.1	4.6	B3/2500		
BM	(30°-60°)	1468.0	6.2	B2/2500		
BH	(60°-80°)	867.9	3.6	B2/1000		G2/1000
BVH	(80°-90°)	208.1	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1
2.5°	7239.1	7180.6	7143.6	7111.0	7068.4	6977.4	6855.0	6777.5	6738.2	6604.6	6446.2
5°	7948.8	7897.2	7859.0	7815.2	7738.9	7596.2	7398.5	7241.2	7163.8	6896.6	6579.8
7.5°	7782.6	7804.0	7870.2	7985.9	8084.7	8065.6	7889.3	7689.4	7587.2	7215.5	6734.8
10°	6780.8	6817.9	6932.5	7203.1	7641.1	8090.3	8227.3	8089.2	7985.9	7531.0	6894.3
12.5°	6579.8	6578.7	6587.7	6659.6	6920.2	7552.4	8238.5	8377.8	8316.0	7832.0	7057.2
15°	6661.9	6664.0	6657.3	6687.6	6768.5	7019.0	7895.0	8489.0	8532.8	8135.2	7225.7
17.5°	6877.5	6871.9	6845.9	6845.9	6875.2	6972.9	7490.6	8385.6	8587.9	8403.6	7373.8
20°	7239.1	7213.3	7144.8	7081.8	7050.4	7103.2	7324.4	8147.6	8492.4	8638.4	7496.3
22.5°	7677.1	7656.9	7545.7	7410.9	7302.1	7300.8	7409.8	7939.9	8327.3	8859.7	7599.5
25°	8243.1	8210.5	8045.5	7829.7	7638.9	7565.8	7596.2	7929.7	8237.5	9099.9	7691.7
27.5°	8907.9	8848.4	8653.0	8342.0	8061.1	7913.9	7870.2	8112.8	8319.4	9397.5	7819.6
30°	9714.2	9645.7	9395.3	8989.9	8593.5	8352.0	8258.8	8437.3	8591.2	9760.2	8025.2
32.5°	10631.8	10532.9	10243.2	9796.1	9275.1	8906.9	8755.2	8866.4	8988.8	10197.1	8282.4
35°	11899.7	11781.8	11362.9	10746.3	10157.9	9651.3	9408.8	9489.6	9608.7	10848.5	8654.1
37.5°	12764.4	12711.7	12433.0	11853.6	11213.5	10630.6	10255.5	10302.7	10370.2	11662.7	9130.2
40°	12756.6	12777.9	12783.5	12789.2	12353.4	11795.2	11392.0	11342.6	11329.2	12556.6	9671.5
42.5°	12117.5	12205.2	12488.2	13062.1	13327.0	13071.0	12701.5	12559.0	12488.2	13610.0	10245.5
45°	11139.4	11186.5	11716.6	12837.4	13825.6	14334.4	14054.8	13605.5	13477.5	14578.1	10721.6
47.5°	10635.1	10686.7	11020.3	12242.2	13820.1	15355.2	15517.0	14661.2	14432.0	15420.5	11132.7
50°	9434.6	9542.3	9962.5	11206.7	13315.8	15824.7	17045.4	15919.0	15445.1	16240.2	11544.8
52.5°	7230.1	7396.3	7866.8	9504.3	12036.6	15592.2	18268.3	17444.2	16774.8	17089.2	11898.6
55°	4560.6	4684.2	5079.5	6712.4	9628.9	14382.7	18732.2	19093.8	18498.5	17893.3	12205.2
57.5°	2479.6	2534.7	2683.0	3706.0	6263.2	11708.8	18056.0	20032.6	19785.6	18576.0	12436.4
58°	2219.2	2256.2	2348.3	3211.9	5554.5	10977.6	17756.3	20036.1	19912.5	18676.0	12454.5
60°	1646.3	1627.3	1545.3	1832.9	3091.7	7583.8	15943.6	19234.2	19597.0	18798.5	12366.8
62.5°	1446.5	1400.3	1233.1	1214.0	1503.7	3493.8	12199.6	16476.0	17332.9	18099.9	11834.5
65°	1358.8	1309.5	1093.8	1024.2	1084.8	1478.0	7186.3	12356.7	13431.5	15981.9	10473.4
67.5°	1293.7	1229.7	1005.0	909.7	914.2	977.0	2880.6	7782.6	8992.1	12134.4	8146.5
70°	1230.8	1161.2	929.9	819.8	794.0	772.7	1145.5	3895.7	4993.0	7664.7	5194.0
72.5°	1163.5	1095.0	863.5	749.1	698.5	627.8	748.0	1593.5	2225.8	3626.4	2356.1
75°	1065.8	1004.0	797.4	686.1	614.2	520.0	564.9	832.1	998.4	1444.2	1135.4
77.5°	945.6	895.1	723.2	634.5	544.6	422.3	434.7	577.2	640.1	826.5	674.9
80°	679.5	697.4	643.5	570.6	485.1	342.5	333.6	421.0	454.8	531.2	439.1
82.5°	477.3	487.4	532.3	466.1	400.9	269.6	246.0	296.5	316.8	349.3	237.0
85°	329.1	317.8	365.0	324.6	289.7	179.7	168.5	201.0	213.4	216.8	122.4
87.5°	197.6	197.6	211.1	174.0	156.1	93.2	91.0	114.5	122.4	116.8	67.4
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°	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1	6335.1
2.5°	6351.9	6272.1	6102.5	5966.6	5794.9	5616.3	5516.4	5409.7	5336.7	5283.9	5368.1
5°	6400.2	6237.3	5886.9	5554.5	5187.3	4805.4	4515.6	4246.2	4058.7	3941.8	4051.9
7.5°	6476.6	6226.1	5668.0	5099.6	4440.6	3804.9	3236.6	2880.6	2672.8	2570.7	2634.7
10°	6564.1	6208.1	5410.7	4483.1	3539.8	2739.1	2314.5	2170.9	2123.7	2104.6	2113.5
12.5°	6637.2	6170.0	5095.2	3737.4	2658.2	2163.0	2040.5	2037.1	2047.3	2049.4	2052.9
15°	6688.8	6113.8	4626.9	2960.3	2125.8	1970.9	1964.2	1984.3	2003.5	2011.4	2015.9
17.5°	6723.6	5998.2	4098.0	2340.5	1904.7	1877.7	1893.5	1919.2	1939.5	1945.2	1949.6
20°	6720.2	5828.6	3467.9	1951.8	1784.5	1784.5	1811.4	1831.6	1832.9	1826.0	1829.4
22.5°	6685.5	5596.0	2857.0	1745.2	1677.7	1696.9	1723.9	1704.8	1626.1	1574.5	1577.8
25°	6627.0	5318.6	2333.7	1613.8	1579.1	1612.6	1604.8	1461.1	1348.8	1298.2	1298.2
27.5°	6575.3	4990.8	1931.6	1499.2	1480.1	1521.8	1382.4	1252.2	1205.0	1181.4	1173.6
30°	6538.3	4637.0	1663.3	1389.2	1386.9	1356.7	1199.4	1163.5	1155.6	1136.6	1129.7
32.5°	6547.3	4278.8	1491.4	1292.6	1300.5	1161.2	1111.8	1119.7	1113.0	1092.7	1083.8
35°	6621.4	3938.5	1379.1	1205.0	1181.4	1048.9	1060.2	1074.8	1072.5	1044.4	1035.4
37.5°	6754.0	3616.2	1305.0	1132.0	1031.0	992.7	1010.7	1033.1	1027.6	1008.5	1001.8
40°	6893.1	3313.0	1244.4	1074.8	942.3	954.6	970.3	982.7	988.2	993.9	989.4
42.5°	7029.0	2996.2	1170.1	1016.3	905.2	918.7	925.4	937.8	968.0	989.4	988.2
45°	7109.9	2698.6	1093.8	933.3	875.9	883.8	879.3	904.0	941.0	975.9	977.0
47.5°	7199.7	2467.3	1033.1	856.9	847.9	853.6	839.9	864.8	898.4	941.0	945.6
50°	7308.7	2329.2	984.9	796.3	809.7	809.7	806.4	828.8	875.9	925.4	934.3
52.5°	7432.3	2302.2	944.4	752.5	771.5	770.4	773.8	807.4	859.1	907.4	915.3
55°	7582.7	2375.2	900.7	719.9	734.4	738.9	750.2	788.5	832.1	887.1	890.6
57.5°	7758.0	2523.5	865.9	694.1	700.8	715.3	733.3	768.2	815.3	875.9	879.3
58°	7787.1	2554.9	860.2	691.8	694.1	710.8	731.1	764.9	811.9	878.2	881.6
60°	7788.2	2659.4	847.9	681.7	668.2	696.3	718.7	752.5	806.4	886.1	894.0
62.5°	7512.0	2658.2	838.9	667.0	641.3	676.1	701.9	741.3	800.8	905.2	920.8
65°	6614.7	2415.6	796.3	644.6	619.9	658.1	687.4	733.3	816.5	988.2	998.4
67.5°	5173.9	1979.9	716.5	613.2	591.8	640.1	678.3	732.2	833.3	1007.4	1014.2
70°	3420.8	1481.2	628.9	577.2	562.6	618.9	682.8	770.4	814.2	967.0	948.9
72.5°	1775.5	1039.9	558.1	532.3	529.0	599.8	748.0	765.9	795.1	909.7	887.1
75°	932.1	722.1	496.4	482.9	488.5	595.3	882.7	745.7	770.4	870.4	913.1
77.5°	570.6	582.9	443.6	438.0	449.2	581.7	881.6	719.9	734.4	800.8	847.9
80°	381.9	472.8	403.1	404.3	412.1	532.3	791.7	679.5	690.6	756.9	805.2
82.5°	241.5	279.6	366.1	385.2	375.1	439.1	672.7	618.9	634.5	865.9	915.3
85°	122.4	175.2	317.8	370.6	338.0	307.7	545.8	542.5	550.3	624.4	652.5
87.5°	56.2	96.5	248.2	323.4	254.9	192.1	396.4	402.1	433.5	443.6	443.6
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)