

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: P192998

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192998
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-10-LED-U-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 54145.6 lumens
Efficiency: N/A
Efficacy: 97.0 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): 558
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

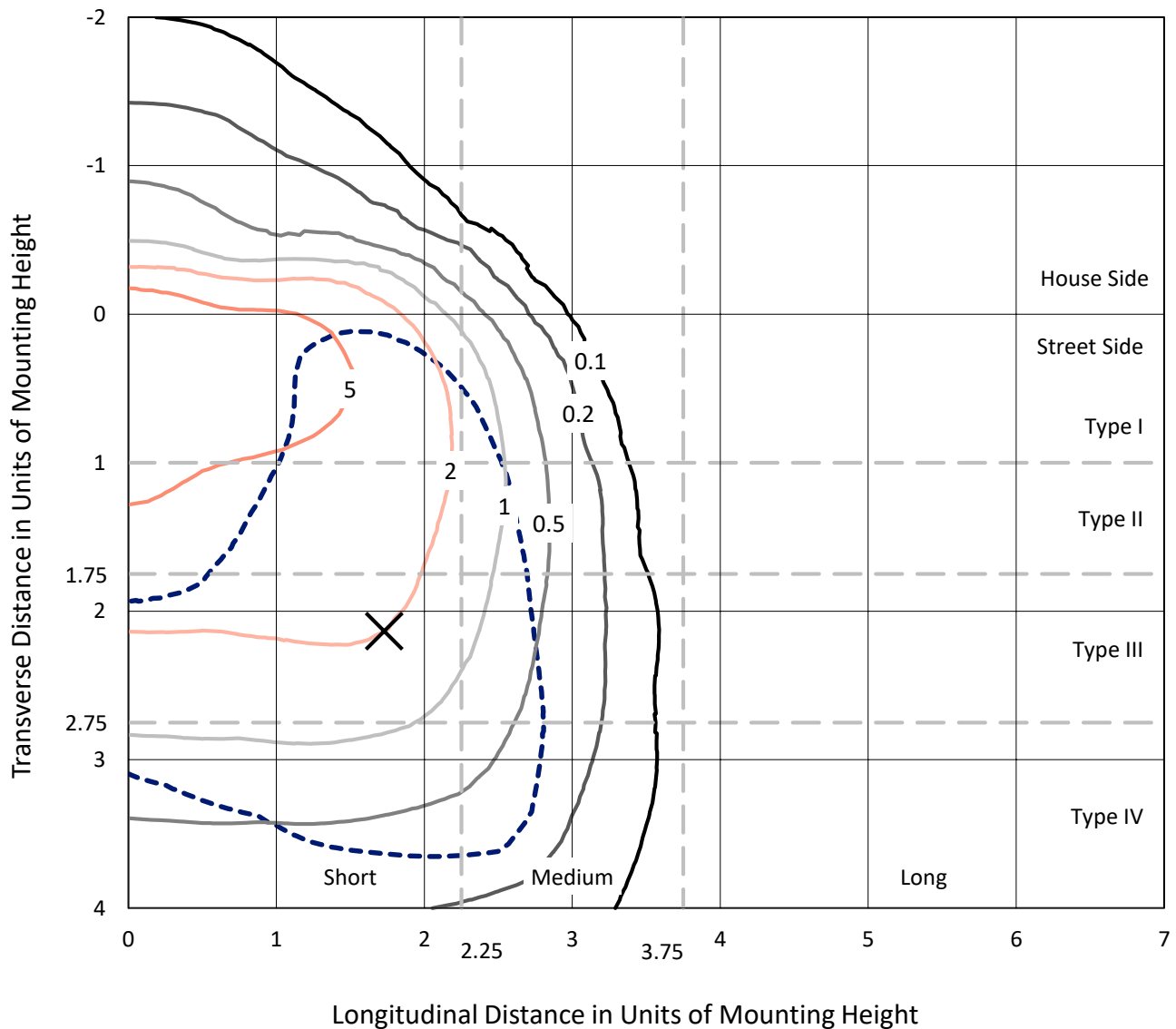


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

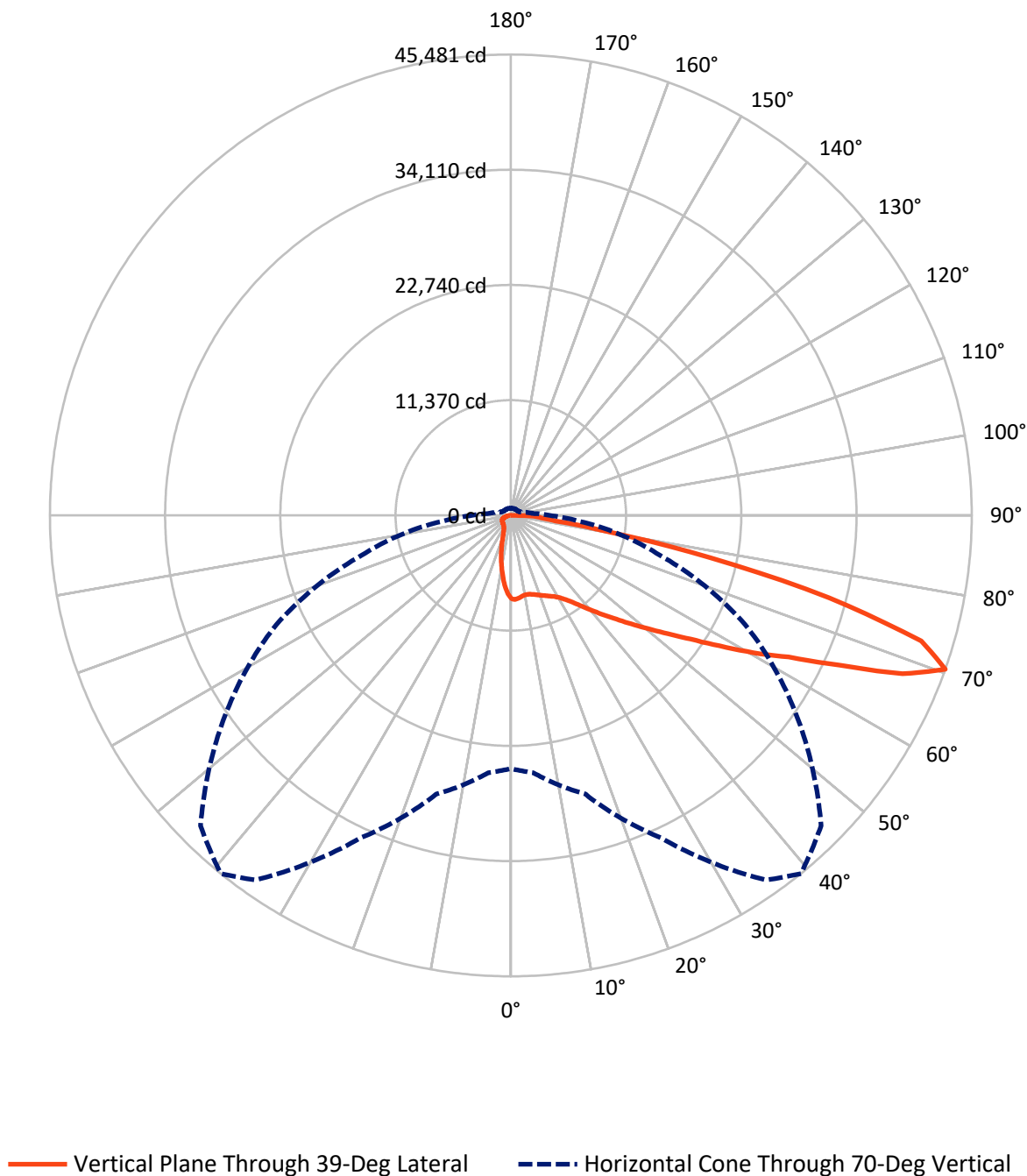


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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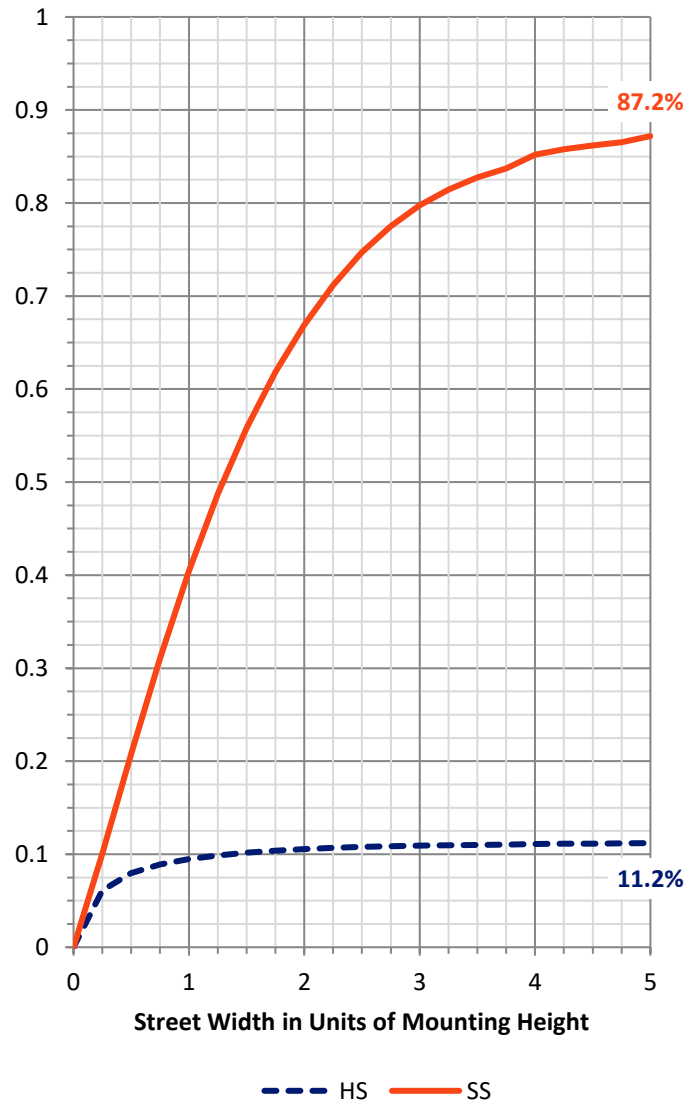
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6158.2	0.0	6158.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	47987.4	0.0	47987.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	54145.6	0.0	54145.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.4	1.3
10°-20°	1763.3	3.3
20°-30°	2745.6	5.1
30°-40°	4277.1	7.9
40°-50°	7180.5	13.3
50°-60°	11406.9	21.1
60°-70°	15215.5	28.1
70°-80°	9188.3	17.0
80°-90°	1663.0	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°	54145.6	100.0
0°-180°	54145.6	100.0

Coefficient of Utilization



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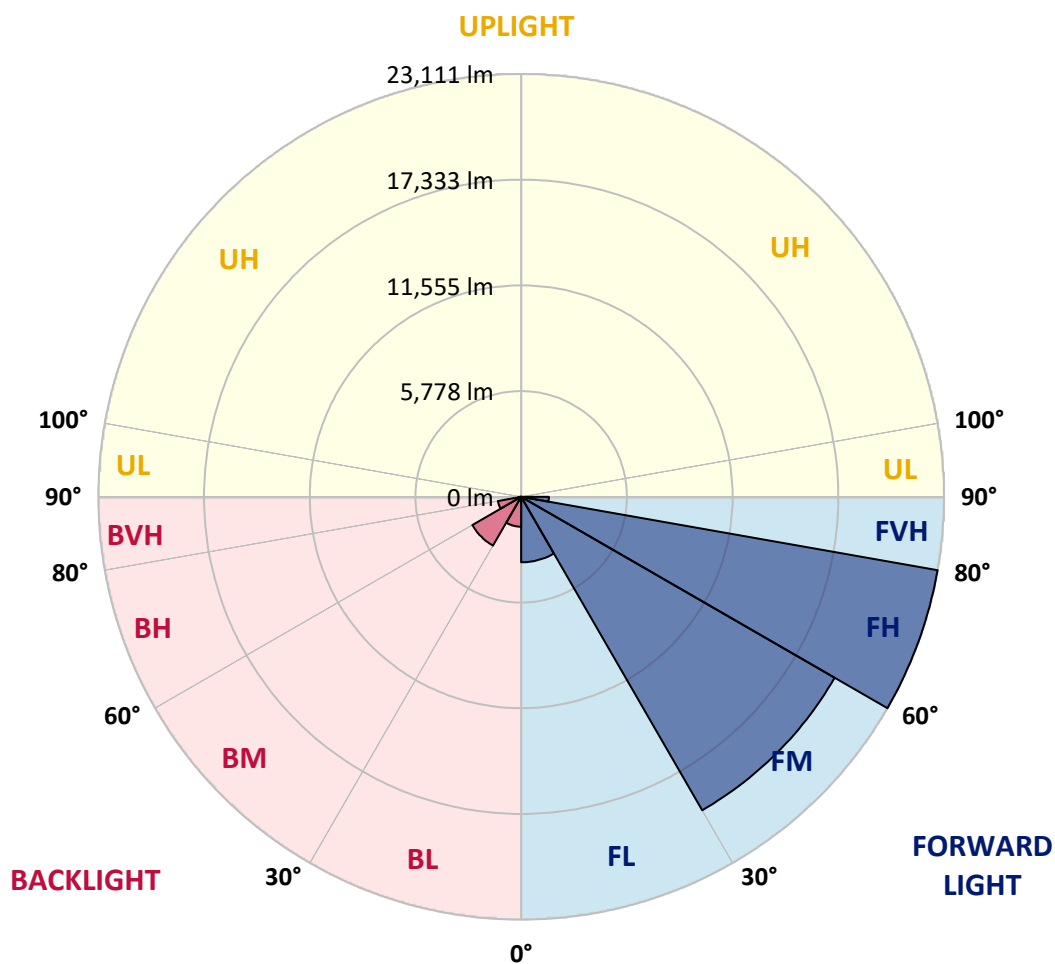
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3580.7	6.6			
FM	(30°-60°)	19782.7	36.5			
FH	(60°-80°)	23110.9	42.7			G5
FVH	(80°-90°)	1513.1	2.8			G5
BL	(0°-30°)	1633.7	3.0	B3/2500		
BM	(30°-60°)	3081.8	5.7	B3/5000		
BH	(60°-80°)	1292.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	149.9	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°	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1
2.5°	8379.8	8377.0	8355.0	8338.5	8324.8	8319.2	8330.3	8289.0	8253.2	8209.0	8162.3
5°	8316.5	8313.7	8277.9	8244.9	8211.9	8200.9	8198.2	8123.8	8079.7	8013.7	7925.5
7.5°	8247.7	8233.9	8187.2	8132.0	8074.3	8046.7	8019.2	7922.8	7873.3	7807.2	7705.4
10°	8176.1	8159.6	8115.6	8060.5	8005.4	7964.1	7917.4	7823.7	7771.4	7721.9	7603.5
12.5°	8101.8	8088.0	8077.0	8052.2	8013.7	7977.9	7942.0	7862.3	7807.2	7749.4	7611.8
15°	8090.7	8085.3	8110.0	8126.6	8104.6	8082.5	8044.0	7975.2	7917.4	7859.6	7680.6
17.5°	8178.8	8176.1	8239.5	8283.5	8272.4	8233.9	8181.6	8104.6	8057.8	8008.1	7785.2
20°	8371.6	8385.3	8462.3	8520.2	8465.2	8410.1	8324.8	8217.4	8192.6	8170.6	7892.6
22.5°	8734.9	8748.7	8803.8	8825.8	8682.7	8602.7	8484.4	8346.8	8330.3	8346.8	8022.0
25°	9302.0	9288.2	9280.1	9197.5	8935.9	8812.0	8660.7	8517.5	8525.7	8600.1	8203.6
27.5°	10053.6	9979.2	9863.6	9615.9	9200.1	9062.5	8878.1	8745.9	8798.2	8941.4	8476.2
30°	10832.6	10750.0	10483.0	10078.3	9547.1	9395.6	9189.1	9040.5	9178.1	9403.8	8839.5
32.5°	11553.9	11542.9	11152.0	10631.7	10026.0	9893.9	9687.5	9519.5	9742.5	10086.6	9384.6
35°	12341.3	12366.0	11898.0	11273.2	10673.0	10535.4	10386.6	10260.0	10557.4	11030.9	10174.7
37.5°	13183.7	13233.2	12679.9	11975.2	11410.7	11352.9	11264.8	11209.8	11669.6	12324.7	11278.7
40°	14309.5	14260.0	13492.0	12767.9	12316.5	12313.7	12286.2	12352.2	13117.5	14015.0	12696.4
42.5°	15515.4	15369.4	14353.6	13618.6	13310.3	13403.8	13458.9	13728.7	14860.2	16068.6	14425.2
45°	16814.7	16487.1	15248.3	14518.8	14414.1	14612.4	14799.6	15385.9	16911.0	18405.9	16319.2
47.5°	17852.5	17535.9	16173.2	15463.0	15691.5	15991.5	16352.2	17279.9	19206.9	20820.1	18188.4
50°	18670.1	18463.6	17106.5	16564.1	17098.2	17560.7	18149.8	19424.4	21596.4	23171.1	19919.9
52.5°	19463.0	19308.9	18048.0	17692.9	18750.0	19388.6	20189.7	21725.8	24046.6	25483.5	21376.2
55°	20178.8	20068.6	19061.1	19099.6	20693.4	21524.8	22532.4	24346.6	26716.8	27545.5	22609.6
57.5°	20985.3	20844.9	20217.3	20864.1	23190.4	24269.5	25579.9	27292.2	29221.9	29378.9	23548.2
60°	21797.4	21676.3	21500.1	22901.3	26361.7	27495.8	28737.5	30147.0	31762.9	30802.2	23493.3
62.5°	22502.2	22515.9	22827.0	25040.4	29467.0	30780.1	32294.2	33687.2	34061.6	31049.9	21756.1
65°	23696.9	23914.4	24842.2	28068.4	33838.5	35594.9	37453.1	37230.1	34697.5	28734.7	18031.5
67.5°	25117.4	25500.0	27380.3	32104.3	39363.6	41695.3	42413.9	38031.3	32151.0	23358.3	12853.3
70°	24974.3	25500.0	28475.9	35113.2	43917.0	45480.6	43300.3	34419.4	25530.4	15259.2	6827.2
72.5°	22177.3	22928.8	26243.3	33734.1	42482.6	42345.1	37590.7	25659.7	15168.5	6128.0	2667.6
75°	16902.7	17662.6	20514.5	26650.7	33577.0	32420.8	26672.8	14174.6	5756.4	2433.5	1682.0
77.5°	9723.2	10312.3	12514.7	16344.0	21302.0	20115.4	14846.3	6304.2	2802.5	1695.8	1313.1
80°	5428.6	5756.4	7094.2	8291.6	10438.9	9569.0	6642.8	3917.4	2092.2	1230.6	1013.1
82.5°	4291.8	4583.5	5736.9	5230.5	4768.0	4399.1	3815.6	3487.9	1671.0	776.3	605.7
85°	3749.4	4027.6	4856.1	4118.3	3256.7	2986.9	3099.8	3432.8	1299.4	467.9	517.6
87.5°	3474.1	3845.8	4327.5	3174.1	2535.5	2246.4	2860.3	3763.2	418.5	291.8	209.2
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°	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1
2.5°	8121.0	8077.0	8005.4	7942.0	7842.9	7790.7	7733.0	7691.7	7658.5	7631.0	7675.0
5°	7870.5	7787.9	7636.5	7474.1	7281.4	7130.0	7003.4	6885.0	6802.4	6747.3	6785.9
7.5°	7633.7	7498.9	7262.1	6967.6	6637.3	6356.4	6125.2	5921.6	5781.1	5690.2	5726.1
10°	7498.9	7331.0	6964.8	6502.3	6015.0	5577.3	5214.0	4900.2	4682.7	4558.9	4578.1
12.5°	7465.9	7248.4	6741.9	6106.0	5439.7	4831.3	4319.2	3884.3	3578.8	3419.0	3424.6
15°	7490.6	7212.5	6532.6	5726.1	4883.7	4115.6	3476.9	2948.4	2593.3	2411.6	2408.7
17.5°	7531.9	7185.1	6312.4	5315.8	4319.2	3427.4	2714.3	2196.7	1883.0	1737.1	1726.1
20°	7575.9	7140.9	6064.7	4872.6	3733.0	2788.8	2125.2	1720.5	1522.3	1442.5	1437.0
22.5°	7639.3	7102.5	5808.7	4404.7	3157.6	2271.2	1748.0	1475.5	1370.9	1329.6	1324.1
25°	7741.1	7083.2	5536.0	3917.4	2640.0	1899.5	1522.3	1354.4	1293.8	1266.4	1263.6
27.5°	7911.8	7110.7	5280.1	3443.9	2218.8	1648.9	1395.7	1293.8	1249.8	1225.1	1222.3
30°	8132.0	7196.1	5010.3	2995.2	1891.3	1478.3	1318.6	1252.5	1216.8	1192.0	1192.0
32.5°	8498.1	7339.2	4726.8	2607.0	1657.3	1360.0	1260.9	1216.8	1186.4	1167.2	1164.4
35°	9037.7	7609.1	4462.4	2284.9	1489.3	1274.6	1211.2	1178.3	1156.2	1145.2	1145.2
37.5°	9822.3	8035.7	4228.5	2053.6	1387.5	1216.8	1164.4	1139.7	1125.9	1125.9	1125.9
40°	10876.6	8624.8	4038.6	1899.5	1329.6	1175.5	1128.6	1109.4	1101.2	1103.9	1103.9
42.5°	12178.8	9390.2	3911.8	1792.2	1302.2	1150.7	1103.9	1087.3	1079.2	1076.4	1079.2
45°	13662.7	10260.0	3898.2	1712.3	1274.6	1134.2	1087.3	1070.8	1054.4	1043.3	1043.3
47.5°	15105.1	11143.7	4011.0	1684.8	1244.4	1114.9	1073.6	1057.1	1032.3	1007.6	1007.6
50°	16379.7	11895.3	4162.3	1695.8	1233.3	1087.3	1051.6	1043.3	1004.8	977.4	974.5
52.5°	17392.8	12473.4	4286.2	1728.8	1244.4	1068.1	1024.1	1026.8	985.5	955.3	952.5
55°	18204.9	12853.3	4253.3	1761.8	1269.0	1057.1	999.2	1004.8	971.8	941.5	941.5
57.5°	18560.0	12712.9	3887.1	1734.3	1288.3	1059.9	980.0	1002.0	974.5	947.0	947.0
60°	17797.5	11465.7	3201.7	1613.2	1263.6	1051.6	971.8	1013.1	1010.3	982.8	980.0
62.5°	15490.6	9233.2	2483.1	1434.2	1178.3	1010.3	949.8	1010.3	1040.5	1032.3	1029.6
65°	11939.3	6576.7	1896.7	1241.5	1062.6	941.5	891.9	947.0	988.2	999.2	996.6
67.5°	7749.4	4030.2	1461.8	1059.9	933.2	861.6	817.6	842.4	850.7	850.7	845.1
70°	3810.0	2169.3	1164.4	891.9	801.1	776.3	751.6	737.8	724.1	713.0	713.0
72.5°	1880.3	1417.7	957.9	754.3	690.9	679.9	674.4	658.0	647.0	633.1	627.7
75°	1390.3	1153.4	814.8	635.9	594.6	583.7	594.6	580.8	578.1	567.0	561.6
77.5°	1142.5	982.8	702.0	545.1	509.2	490.0	506.5	509.2	512.0	495.5	490.0
80°	927.7	831.4	586.4	451.5	418.5	404.7	415.7	437.7	443.3	418.5	407.4
82.5°	669.0	679.9	473.5	352.4	324.8	313.8	335.9	363.4	368.9	333.1	324.8
85°	561.6	567.0	363.4	250.5	223.0	206.5	242.2	269.8	289.1	253.3	245.0
87.5°	234.1	333.1	209.2	140.4	123.9	107.4	129.4	143.1	173.4	159.6	156.9
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)