

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: P459628

Luminaire Tested: **GAN-SA5A-AMB-U-SL3-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-AMB-U-SL3-HSS
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4088 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

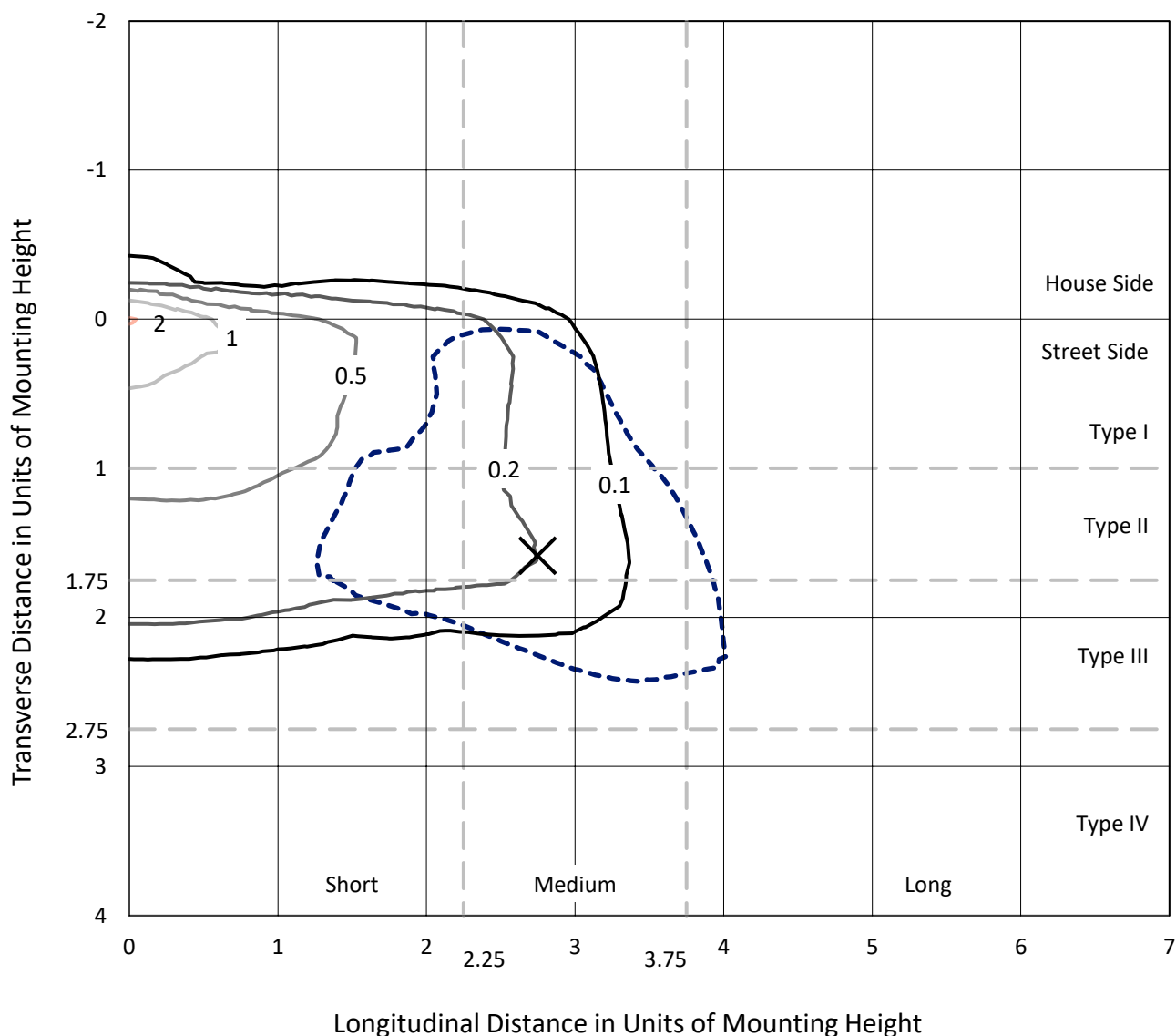
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

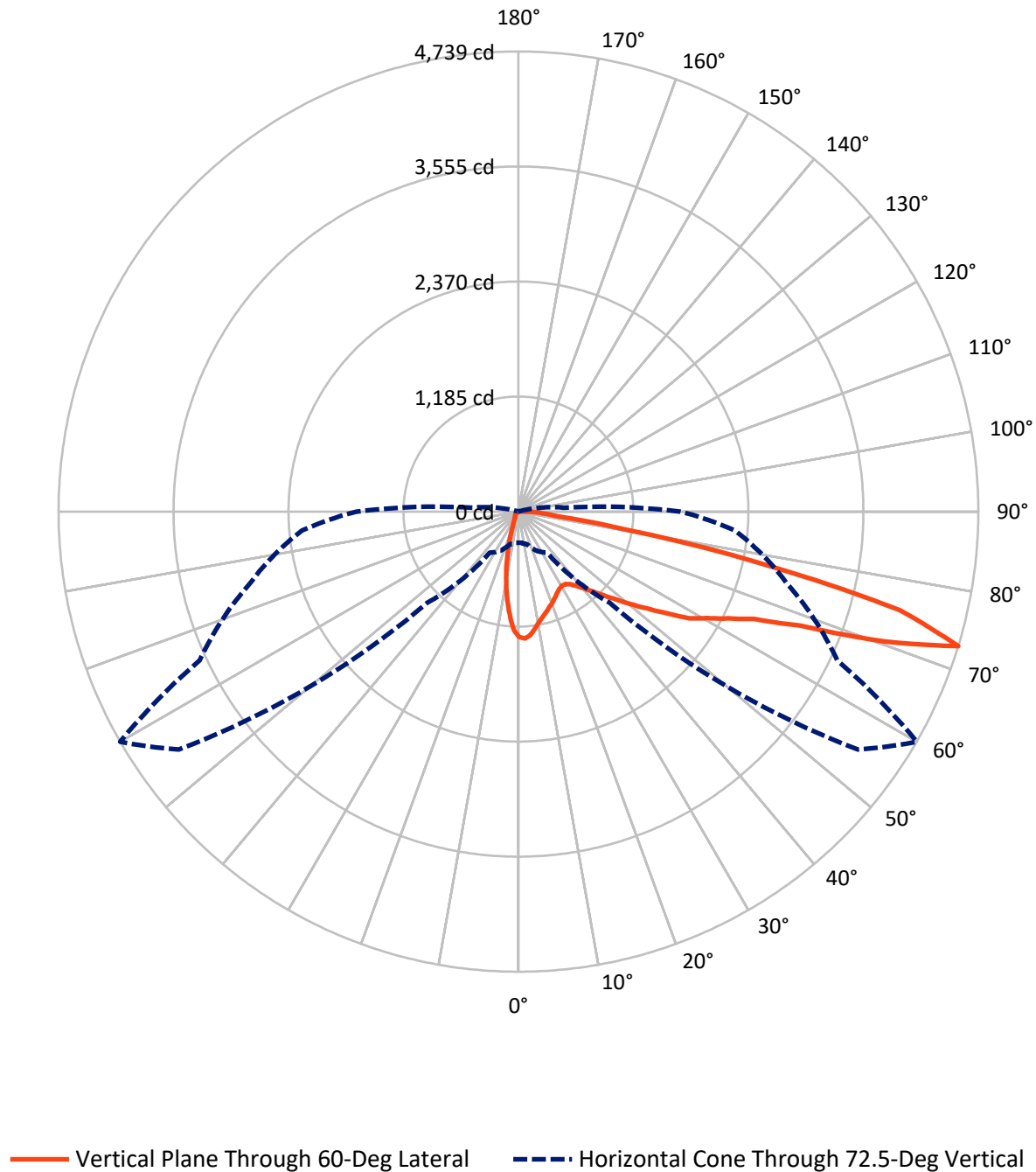
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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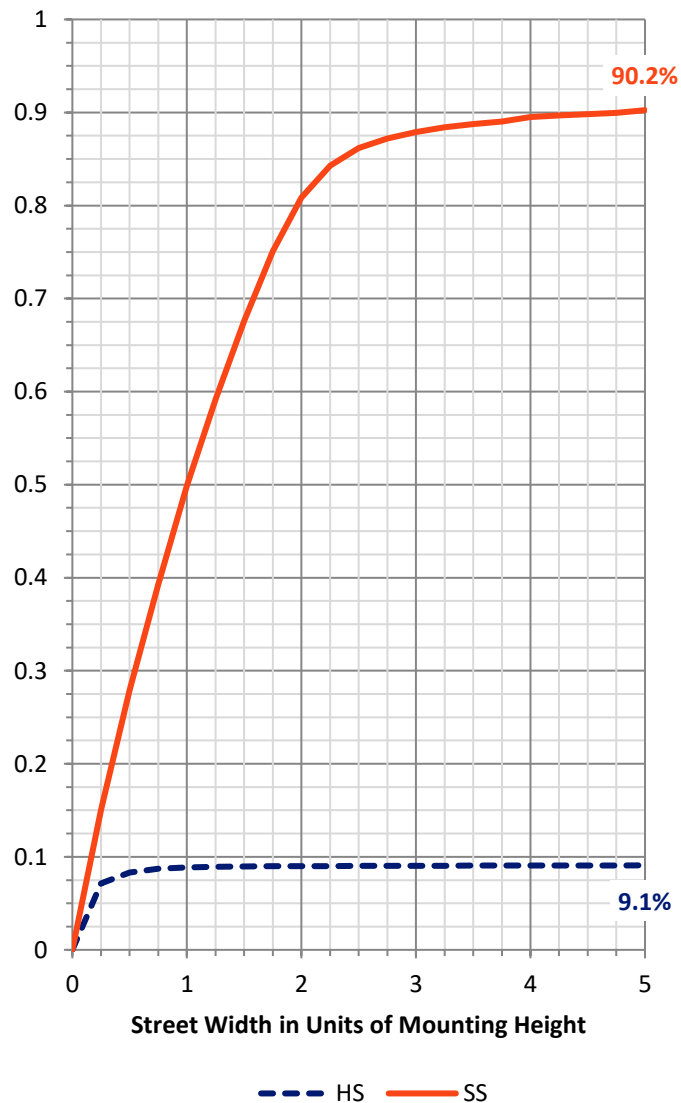
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.3	0.0	375.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3712.7	0.0	3712.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	4088.0	0.0	4088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	2.5
10°-20°	196.5	4.8
20°-30°	257.8	6.3
30°-40°	347.7	8.5
40°-50°	517.5	12.7
50°-60°	802.9	19.6
60°-70°	1101.3	26.9
70°-80°	694.3	17.0
80°-90°	69.5	1.7
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°	4088.0	100.0
0°-180°	4088.0	100.0

Coefficient of Utilization



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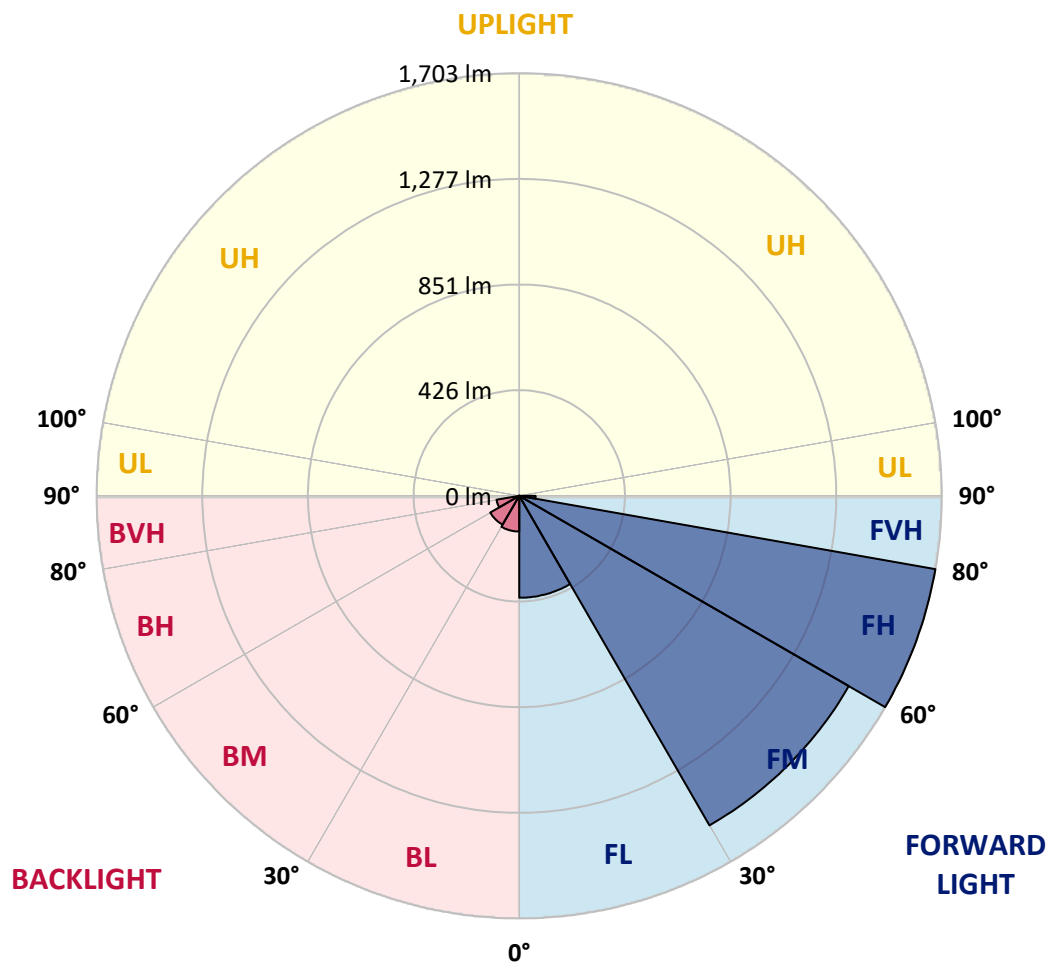
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.8	10.0			
FM	(30°-60°)	1533.4	37.5			
FH	(60°-80°)	1702.7	41.7			G1/1800
FVH	(80°-90°)	65.8	1.6			G1/100
BL	(0°-30°)	144.0	3.5	B1/500		
BM	(30°-60°)	134.7	3.3	B0/220		
BH	(60°-80°)	92.9	2.3	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1314.8	1312.6	1312.6	1314.8	1317.0	1310.4	1310.4	1308.2	1301.6	1299.4	1286.2
5°	1231.1	1237.7	1237.7	1246.5	1255.3	1259.7	1277.4	1277.4	1275.2	1275.2	1255.3
7.5°	1129.8	1129.8	1145.2	1160.6	1182.7	1189.3	1209.1	1217.9	1222.3	1233.3	1215.7
10°	1039.5	1046.1	1048.3	1070.3	1090.2	1114.4	1147.4	1158.4	1169.4	1191.5	1173.8
12.5°	971.2	975.6	982.2	1002.1	1026.3	1052.7	1092.4	1112.2	1123.2	1154.0	1140.8
15°	900.8	905.2	918.4	936.0	969.0	1002.1	1046.1	1072.5	1092.4	1127.6	1116.6
17.5°	854.5	856.7	858.9	874.3	907.4	951.4	1006.5	1032.9	1059.3	1103.4	1099.0
20°	832.5	834.7	832.5	841.3	861.1	898.6	964.6	999.9	1028.5	1092.4	1085.8
22.5°	825.9	828.1	823.7	821.5	830.3	863.3	922.8	962.4	1002.1	1090.2	1081.3
25°	830.3	830.3	823.7	817.1	817.1	834.7	885.3	927.2	975.6	1094.6	1076.9
27.5°	847.9	845.7	839.1	825.9	814.9	821.5	861.1	898.6	951.4	1101.2	1076.9
30°	869.9	867.7	865.5	854.5	834.7	821.5	850.1	885.3	938.2	1116.6	1079.1
32.5°	894.1	896.4	896.4	887.5	865.5	836.9	856.7	889.7	940.4	1138.6	1085.8
35°	938.2	933.8	940.4	936.0	911.8	874.3	889.7	918.4	962.4	1162.8	1101.2
37.5°	980.0	980.0	988.8	991.1	969.0	922.8	942.6	971.2	997.7	1202.5	1129.8
40°	1028.5	1026.3	1039.5	1052.7	1035.1	995.5	1015.3	1039.5	1063.7	1261.9	1178.2
42.5°	1068.1	1072.5	1092.4	1114.4	1121.0	1065.9	1099.0	1125.4	1136.4	1328.0	1250.9
45°	1105.6	1112.2	1149.6	1184.9	1206.9	1162.8	1200.3	1228.9	1239.9	1411.7	1339.0
47.5°	1145.2	1154.0	1200.3	1255.3	1295.0	1272.9	1314.8	1350.0	1356.6	1515.2	1471.2
50°	1187.1	1195.9	1248.7	1323.6	1389.7	1402.9	1455.7	1497.6	1491.0	1618.7	1605.5
52.5°	1239.9	1250.9	1323.6	1407.3	1497.6	1537.2	1618.7	1656.2	1636.3	1753.1	1728.8
55°	1378.7	1383.1	1433.7	1519.6	1612.1	1691.4	1810.3	1843.4	1792.7	1852.2	1854.4
57.5°	1614.3	1614.3	1625.3	1651.8	1737.6	1854.4	2043.8	2072.4	1977.7	1953.5	1964.5
60°	1755.3	1777.3	1823.5	1874.2	1913.8	2030.6	2228.8	2228.8	2094.4	2059.2	2063.6
62.5°	1720.0	1737.6	1874.2	1988.7	2167.1	2316.9	2429.2	2424.8	2226.6	2158.3	2189.1
65°	1259.7	1290.6	1466.8	1825.7	2266.2	2713.3	2763.9	2667.0	2389.5	2308.0	2433.6
67.5°	676.1	700.3	847.9	1169.4	1788.3	2984.2	3451.1	3133.9	2682.4	2614.2	2682.4
70°	444.9	440.5	451.5	574.8	977.8	2473.2	4371.6	4010.5	3169.2	2858.6	2684.6
72.5°	321.5	321.5	350.2	444.9	517.5	1328.0	4272.5	4739.4	3625.0	2865.2	2237.6
75°	215.8	220.2	266.5	359.0	482.3	436.1	3323.3	4061.1	3563.4	2151.7	1167.2
77.5°	112.3	118.9	176.2	284.1	442.7	389.8	1861.0	2515.1	2094.4	988.8	259.9
80°	50.7	52.9	77.1	213.6	405.2	361.2	607.8	1121.0	662.9	118.9	44.0
82.5°	24.2	24.2	33.0	105.7	334.8	310.5	374.4	398.6	156.4	37.4	30.8
85°	8.8	8.8	17.6	59.5	198.2	187.2	319.3	266.5	88.1	24.2	22.0
87.5°	4.4	4.4	6.6	17.6	52.9	152.0	220.2	176.2	37.4	8.8	8.8
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°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1279.6	1272.9	1255.3	1239.9	1220.1	1193.7	1189.3	1162.8	1140.8	1138.6	1132.0
5°	1244.3	1224.5	1180.5	1116.6	1057.1	1008.7	955.8	922.8	905.2	885.3	898.6
7.5°	1195.9	1162.8	1074.7	975.6	878.7	795.0	713.6	654.1	629.9	594.6	601.2
10°	1145.2	1099.0	971.2	821.5	695.9	572.6	466.9	378.8	332.6	317.1	317.1
12.5°	1110.0	1043.9	865.5	678.3	513.1	354.6	257.7	187.2	140.9	125.5	125.5
15°	1074.7	993.3	768.6	541.8	339.2	204.8	123.3	105.7	103.5	103.5	103.5
17.5°	1043.9	933.8	667.3	414.0	222.4	114.5	101.3	99.1	96.9	96.9	96.9
20°	1013.1	880.9	581.4	297.3	123.3	96.9	92.5	92.5	92.5	92.5	90.3
22.5°	984.4	834.7	488.9	204.8	94.7	88.1	85.9	85.9	85.9	83.7	83.7
25°	962.4	792.8	405.2	129.9	83.7	81.5	79.3	77.1	74.9	74.9	74.9
27.5°	940.4	753.2	317.1	90.3	77.1	72.7	70.5	68.3	63.9	63.9	61.7
30°	925.0	713.6	253.3	77.1	70.5	66.1	61.7	57.3	52.9	50.7	50.7
32.5°	916.2	682.7	189.4	70.5	63.9	57.3	52.9	48.5	44.0	39.6	39.6
35°	909.6	651.9	129.9	63.9	57.3	50.7	46.2	39.6	33.0	30.8	30.8
37.5°	920.6	629.9	88.1	59.5	52.9	46.2	37.4	33.0	28.6	26.4	26.4
40°	944.8	612.2	70.5	55.1	48.5	39.6	33.0	26.4	22.0	19.8	19.8
42.5°	986.6	605.6	61.7	52.9	44.0	35.2	26.4	22.0	19.8	17.6	17.6
45°	1063.7	603.4	57.3	48.5	39.6	28.6	22.0	17.6	15.4	13.2	13.2
47.5°	1149.6	607.8	55.1	46.2	35.2	26.4	19.8	15.4	13.2	11.0	11.0
50°	1255.3	625.5	50.7	41.8	33.0	22.0	15.4	13.2	8.8	8.8	8.8
52.5°	1356.6	643.1	48.5	39.6	28.6	19.8	13.2	8.8	8.8	6.6	6.6
55°	1455.7	682.7	44.0	39.6	26.4	15.4	11.0	8.8	6.6	4.4	4.4
57.5°	1554.8	711.4	41.8	35.2	22.0	13.2	8.8	6.6	4.4	4.4	4.4
60°	1656.2	737.8	37.4	30.8	17.6	11.0	6.6	4.4	4.4	4.4	4.4
62.5°	1783.9	781.8	33.0	26.4	15.4	8.8	6.6	4.4	2.2	2.2	2.2
65°	2023.9	856.7	28.6	22.0	11.0	8.8	6.6	4.4	2.2	2.2	2.2
67.5°	2178.1	845.7	24.2	17.6	11.0	6.6	4.4	4.4	2.2	2.2	2.2
70°	2147.3	764.2	19.8	15.4	8.8	6.6	4.4	4.4	2.2	2.2	2.2
72.5°	1669.4	464.7	17.6	13.2	8.8	6.6	4.4	4.4	2.2	2.2	2.2
75°	762.0	103.5	15.4	11.0	6.6	6.6	4.4	4.4	2.2	2.2	2.2
77.5°	134.3	26.4	13.2	8.8	8.8	6.6	6.6	4.4	2.2	2.2	2.2
80°	35.2	17.6	13.2	8.8	8.8	11.0	8.8	6.6	2.2	2.2	2.2
82.5°	24.2	13.2	13.2	11.0	11.0	13.2	11.0	6.6	2.2	2.2	2.2
85°	17.6	11.0	13.2	13.2	8.8	11.0	11.0	6.6	2.2	2.2	2.2
87.5°	8.8	4.4	4.4	4.4	4.4	6.6	6.6	2.2	2.2	2.2	2.2
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)