

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: P323435

Luminaire Tested: **GAN-SA1B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 4275 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

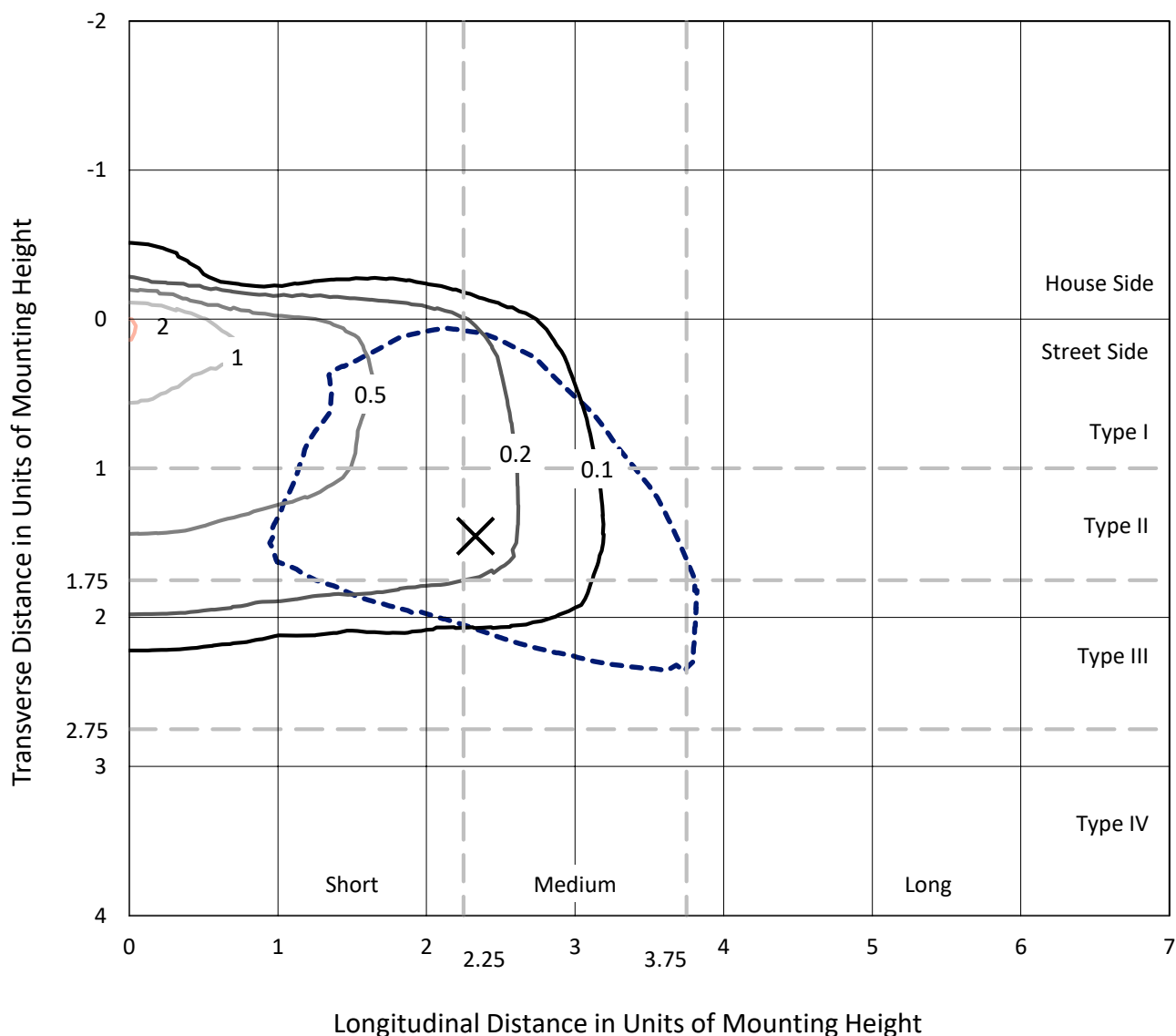
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

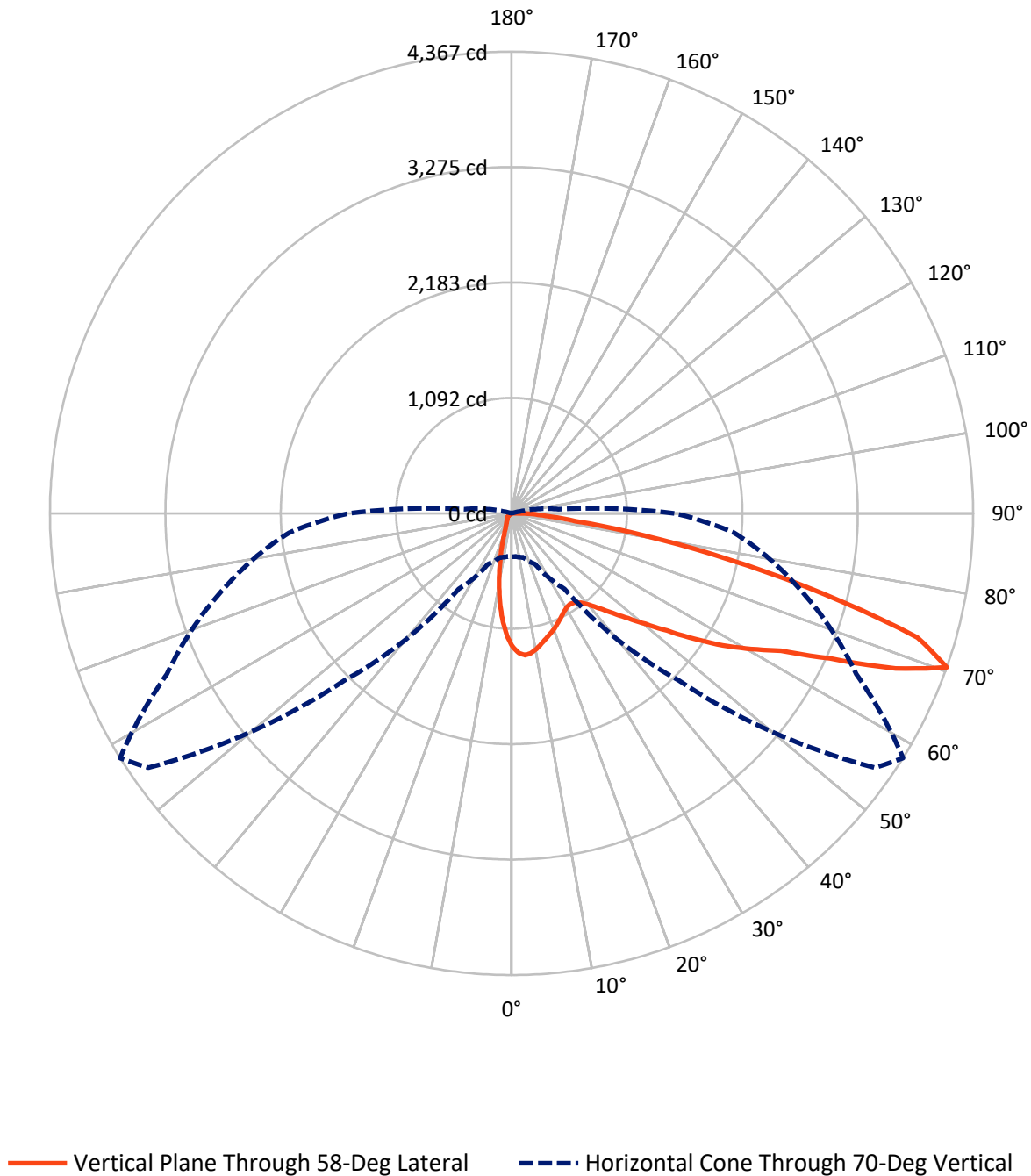
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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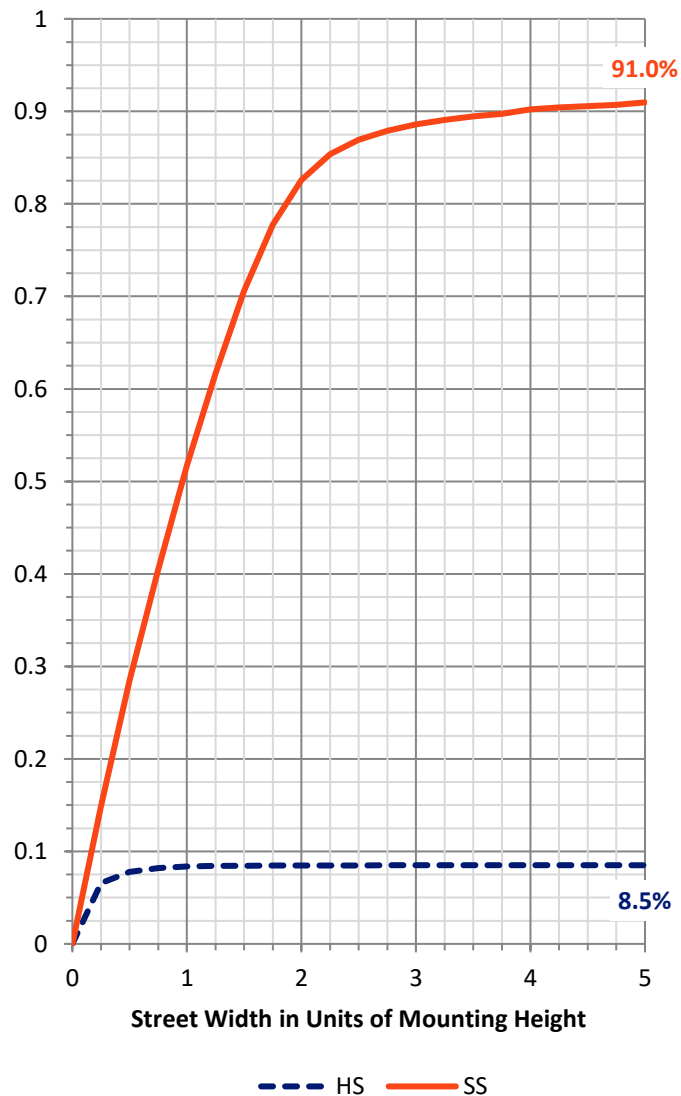
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.9	0.0	365.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	3909.2	0.0	3909.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	4275.0	0.0	4275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	2.4
10°-20°	216.7	5.1
20°-30°	284.9	6.7
30°-40°	377.4	8.8
40°-50°	564.0	13.2
50°-60°	903.6	21.1
60°-70°	1138.9	26.6
70°-80°	614.3	14.4
80°-90°	71.9	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°	4275.0	100.0
0°-180°	4275.0	100.0

Coefficient of Utilization



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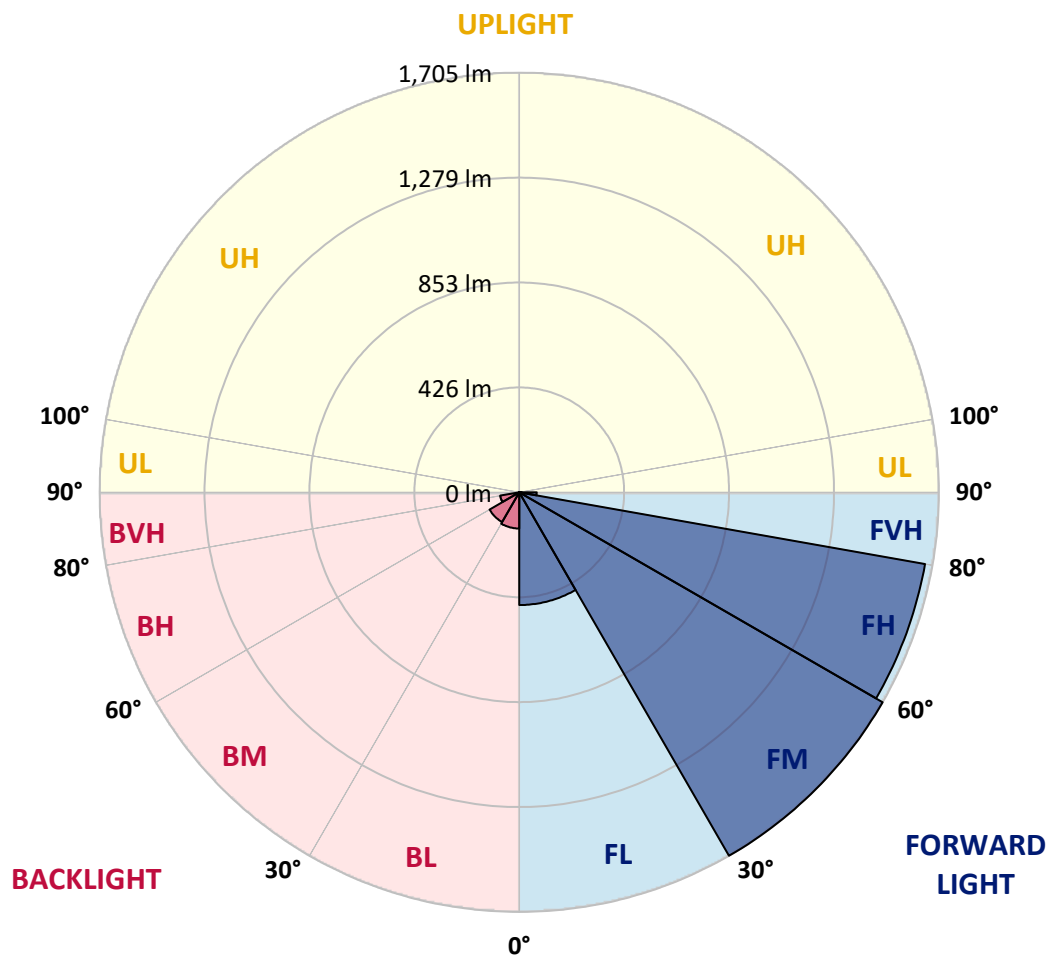
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.9	10.7			
FM	(30°-60°)	1705.4	39.9			
FH	(60°-80°)	1674.6	39.2			G1/1800
FVH	(80°-90°)	71.3	1.7			G1/100
BL	(0°-30°)	147.0	3.4	B1/500		
BM	(30°-60°)	139.6	3.3	B0/220		
BH	(60°-80°)	78.7	1.8	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8
2.5°	1367.5	1364.1	1362.9	1360.8	1352.6	1344.6	1328.8	1324.3	1314.4	1290.7	1265.7
5°	1368.6	1368.4	1372.1	1371.2	1368.4	1364.7	1353.3	1347.4	1330.5	1296.8	1250.9
7.5°	1302.6	1306.0	1314.4	1321.1	1328.9	1339.1	1340.5	1334.8	1320.9	1284.5	1223.7
10°	1214.1	1219.4	1231.2	1244.5	1264.9	1285.2	1303.3	1302.6	1297.8	1261.9	1191.0
12.5°	1125.4	1131.6	1145.1	1164.9	1193.8	1226.9	1259.3	1263.7	1271.7	1241.7	1160.8
15°	1047.7	1053.1	1066.4	1090.6	1126.5	1170.9	1218.4	1226.6	1247.2	1225.8	1135.5
17.5°	981.8	985.2	994.9	1021.8	1063.4	1117.2	1178.9	1194.9	1225.7	1213.4	1113.7
20°	935.7	936.3	942.7	961.5	1003.1	1063.4	1138.0	1161.0	1202.9	1202.7	1091.1
22.5°	913.0	911.2	912.4	923.3	953.9	1012.0	1097.1	1124.3	1182.5	1193.7	1068.2
25°	908.7	907.3	903.7	905.2	923.6	967.0	1055.9	1087.4	1164.5	1188.2	1048.3
27.5°	922.0	923.5	917.4	911.0	912.4	937.9	1019.3	1055.7	1149.9	1188.2	1034.2
30°	948.9	949.6	945.2	936.8	925.6	929.7	993.9	1030.3	1142.6	1196.3	1025.3
32.5°	978.6	982.5	982.0	975.2	959.2	942.7	987.8	1021.1	1142.1	1214.5	1024.4
35°	1015.4	1019.8	1027.3	1025.9	1009.1	982.0	1008.4	1034.6	1152.6	1244.3	1034.0
37.5°	1054.5	1061.2	1077.2	1084.9	1074.0	1043.3	1054.7	1073.3	1180.7	1292.7	1058.4
40°	1092.3	1100.0	1129.1	1159.2	1151.0	1119.4	1124.7	1139.6	1230.6	1362.2	1104.6
42.5°	1129.5	1140.9	1183.7	1233.1	1242.9	1217.7	1220.5	1232.4	1304.8	1457.8	1180.2
45°	1173.9	1186.7	1250.2	1311.2	1337.3	1326.3	1338.4	1346.2	1401.6	1584.2	1282.0
47.5°	1239.2	1253.9	1331.8	1401.3	1447.2	1454.3	1478.6	1483.8	1524.1	1731.4	1414.8
50°	1366.4	1370.5	1440.9	1504.0	1570.2	1612.8	1640.6	1644.5	1672.4	1892.3	1580.7
52.5°	1526.6	1529.3	1569.1	1611.4	1686.6	1773.7	1838.6	1844.1	1850.0	2049.1	1744.4
55°	1685.7	1685.4	1711.7	1736.5	1822.6	1949.2	2089.9	2093.3	2051.2	2197.8	1869.5
57.5°	1785.1	1794.7	1834.7	1866.7	1986.8	2149.1	2344.5	2356.9	2262.5	2308.0	1993.2
60°	1753.4	1758.1	1846.8	1965.1	2191.4	2433.4	2602.1	2605.3	2421.5	2418.1	2149.7
62.5°	1493.9	1496.4	1635.8	1879.8	2295.1	2802.0	2912.8	2860.7	2604.2	2570.8	2336.8
65°	1023.9	1040.1	1156.5	1458.2	2104.7	3033.3	3393.8	3307.6	2882.8	2790.8	2506.1
67.5°	603.0	599.6	657.2	879.4	1545.8	2879.7	4002.3	3916.6	3262.6	2938.2	2456.5
70°	411.9	409.6	431.6	532.4	872.6	2233.9	4193.7	4366.7	3598.1	2839.0	2114.1
72.5°	294.0	295.3	327.8	413.7	547.9	1301.6	3606.4	4015.8	3493.0	2475.0	1607.0
75°	199.6	203.0	249.6	339.3	480.3	662.2	2559.2	3052.7	2844.4	1798.8	923.6
77.5°	107.4	111.1	166.0	273.4	434.3	460.0	1646.2	2101.0	1786.7	808.6	267.7
80°	44.8	46.9	77.7	198.7	375.3	404.1	968.6	1274.0	761.4	159.5	59.7
82.5°	19.4	20.4	32.4	118.6	280.5	341.1	512.8	612.9	230.7	35.0	30.0
85°	3.7	3.9	13.3	62.7	179.0	192.5	332.4	325.8	103.6	15.1	21.9
87.5°	0.0	0.0	3.2	19.7	52.6	104.9	202.8	200.3	35.2	7.3	8.2
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°	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8	1262.8
2.5°	1252.9	1240.6	1214.8	1183.0	1158.6	1131.8	1110.5	1083.5	1071.7	1072.3	1065.9
5°	1224.8	1199.5	1142.5	1070.5	1015.0	957.8	908.5	859.5	830.5	821.1	812.2
7.5°	1184.6	1144.6	1053.6	942.7	848.8	757.1	677.3	607.1	562.6	540.9	532.9
10°	1139.3	1083.1	951.4	805.3	671.2	547.1	443.7	353.7	317.8	293.5	287.3
12.5°	1099.5	1023.4	851.5	664.3	505.2	355.5	256.9	200.9	176.5	166.9	165.3
15°	1061.9	967.6	755.3	536.7	349.8	218.8	163.4	144.3	138.7	137.1	137.1
17.5°	1026.6	914.4	661.3	411.0	231.4	153.4	135.3	131.0	129.2	129.1	129.2
20°	989.6	861.3	568.8	301.1	161.6	129.9	125.0	122.7	122.1	122.1	122.1
22.5°	954.2	808.1	478.9	215.1	129.6	118.6	116.1	114.5	113.9	113.8	113.4
25°	920.3	757.6	391.1	152.0	113.8	108.6	106.5	104.3	102.7	101.9	101.3
27.5°	892.4	712.6	309.3	121.9	102.7	98.3	95.6	92.4	88.5	86.7	86.0
30°	870.1	671.6	238.4	102.9	92.4	88.0	83.9	78.4	72.7	69.7	69.5
32.5°	852.7	631.2	181.0	91.0	83.2	77.7	71.8	64.9	58.3	54.9	54.8
35°	844.2	595.7	138.3	82.3	75.0	68.1	60.8	53.2	46.8	43.6	43.2
37.5°	849.9	565.6	107.9	75.0	68.1	60.1	51.6	43.6	37.9	35.0	34.8
40°	870.7	546.4	87.6	68.8	62.2	52.4	43.2	35.7	30.9	28.6	28.4
42.5°	914.9	539.3	74.8	63.6	56.5	45.3	35.9	29.5	25.1	23.5	23.1
45°	988.9	549.8	66.1	58.7	50.7	38.6	29.7	24.2	20.3	19.0	18.8
47.5°	1087.4	577.4	59.9	53.9	45.3	32.5	24.7	19.6	16.5	15.3	15.1
50°	1214.3	621.1	54.8	49.1	40.4	27.6	20.4	15.5	12.8	11.9	11.9
52.5°	1352.4	673.2	50.1	44.6	35.4	22.9	16.5	11.9	10.1	9.1	9.1
55°	1466.5	718.7	45.2	41.2	29.3	19.0	12.6	9.1	7.5	6.9	6.9
57.5°	1580.5	767.2	39.5	35.4	23.5	15.5	9.6	6.8	5.5	5.2	5.2
60°	1728.2	826.6	34.0	28.8	18.5	11.7	7.1	4.8	4.1	3.9	3.9
62.5°	1890.7	861.4	29.0	23.1	14.4	8.7	5.2	3.2	3.0	3.0	2.8
65°	1990.0	812.2	24.4	18.5	11.2	6.6	3.4	2.3	2.7	2.5	2.1
67.5°	1863.3	635.9	19.9	14.4	8.7	5.0	2.1	1.6	2.8	2.3	1.8
70°	1542.8	445.1	15.5	10.1	6.9	4.3	1.4	1.1	3.0	2.3	1.4
72.5°	1154.6	297.9	12.3	6.8	5.2	3.7	1.2	0.5	2.7	2.0	1.2
75°	630.9	120.0	9.8	4.3	3.2	2.7	0.9	0.4	1.8	1.4	0.9
77.5°	166.0	31.6	7.1	2.8	1.8	1.1	0.5	0.2	0.9	0.7	0.4
80°	42.3	12.3	4.6	2.0	1.2	0.5	0.0	0.0	0.2	0.0	0.0
82.5°	22.6	5.2	2.8	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	3.4	1.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	1.1	0.5	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)