

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: P192550

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12373.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 113
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

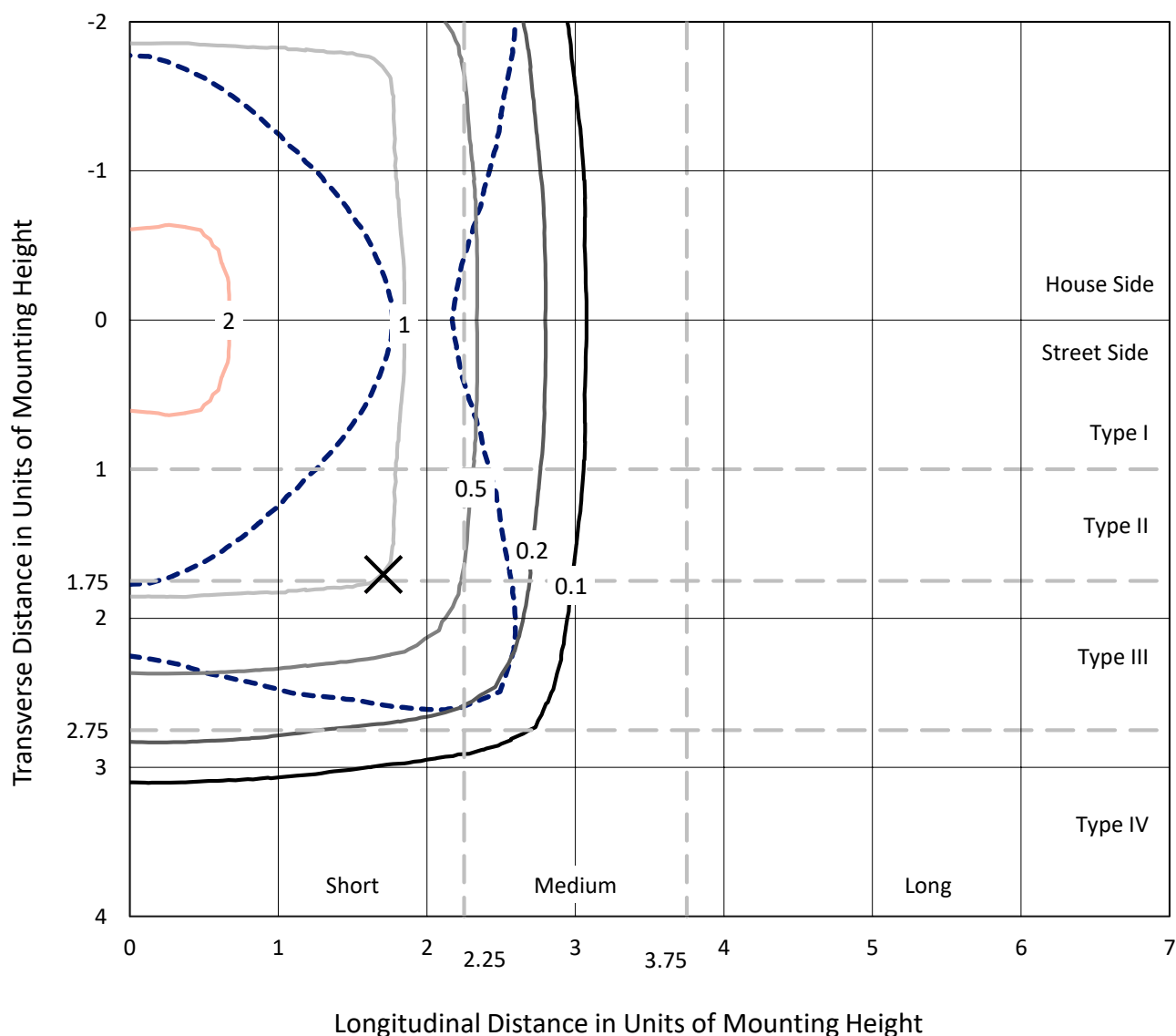


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

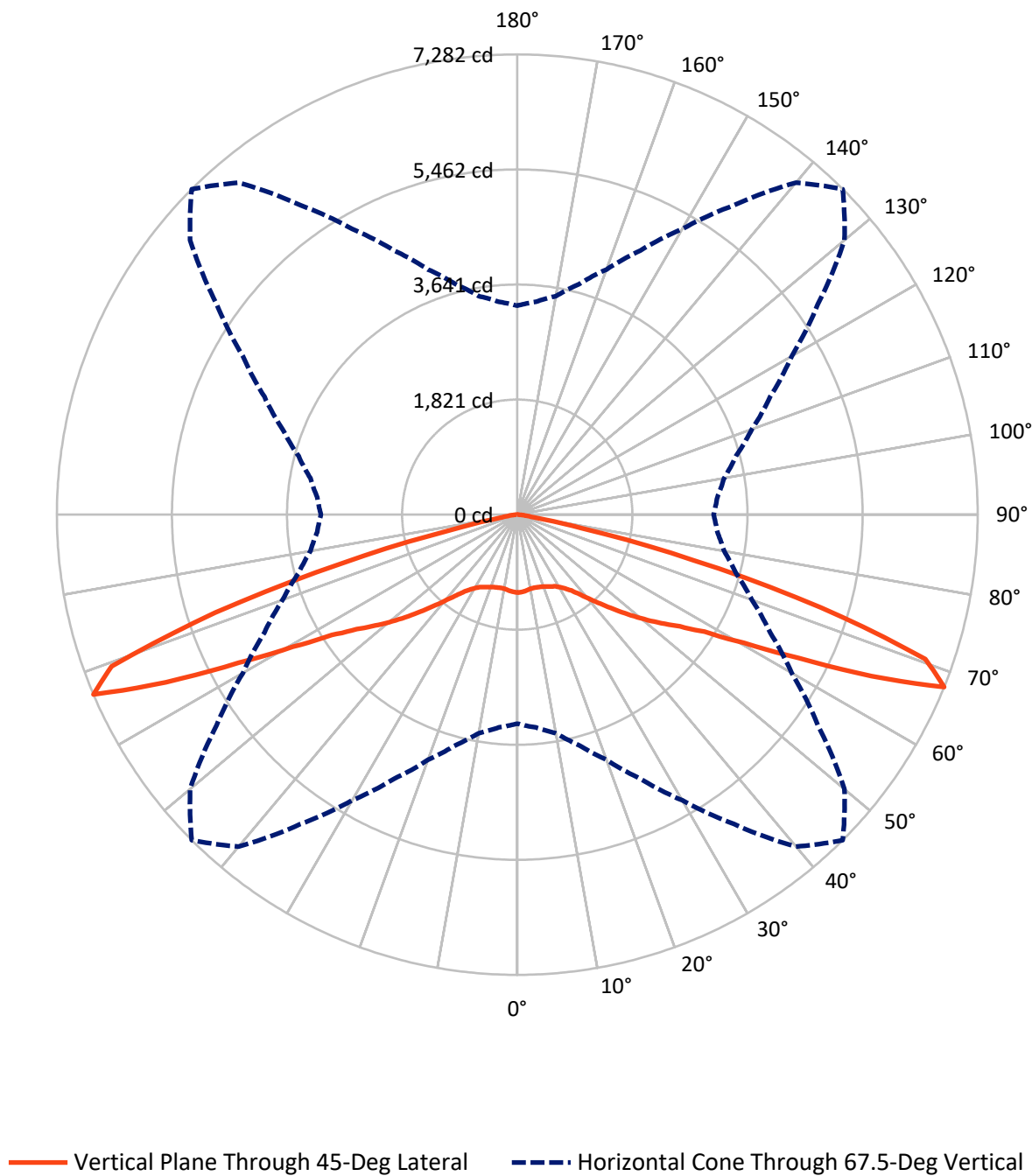


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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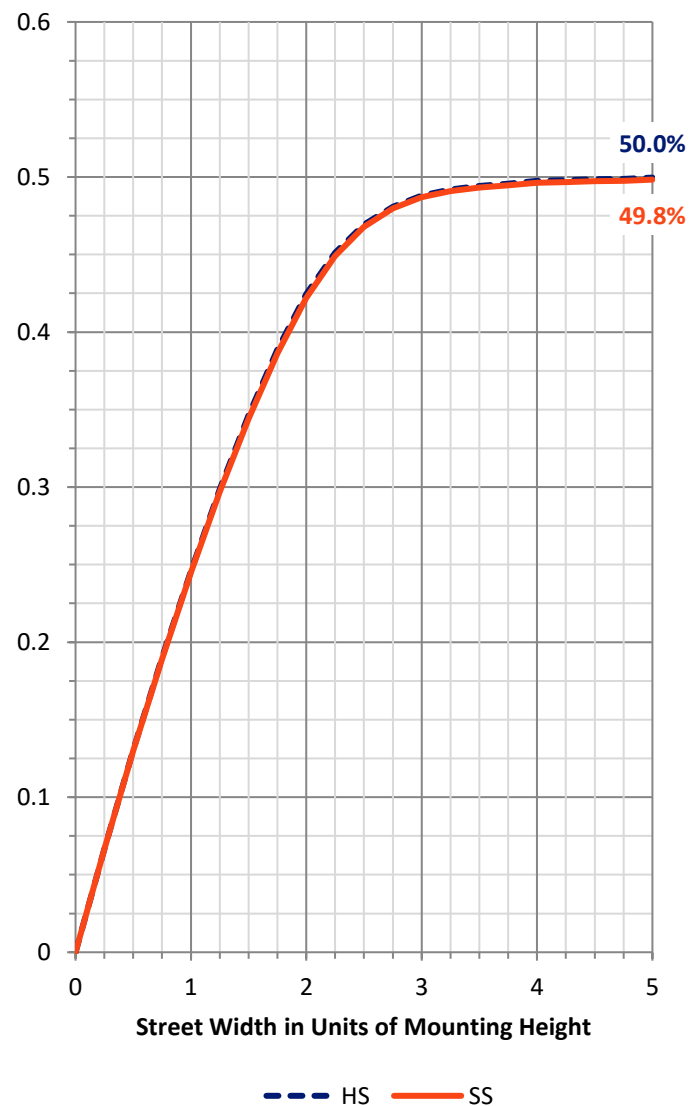
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6186.8	0.0	6186.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6186.8	0.0	6186.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12373.6	0.0	12373.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	0.9
10°-20°	334.9	2.7
20°-30°	569.3	4.6
30°-40°	930.7	7.5
40°-50°	1661.4	13.4
50°-60°	2801.2	22.6
60°-70°	4347.0	35.1
70°-80°	1527.4	12.3
80°-90°	86.3	0.7
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°	12373.6	100.0
0°-180°	12373.6	100.0

Coefficient of Utilization



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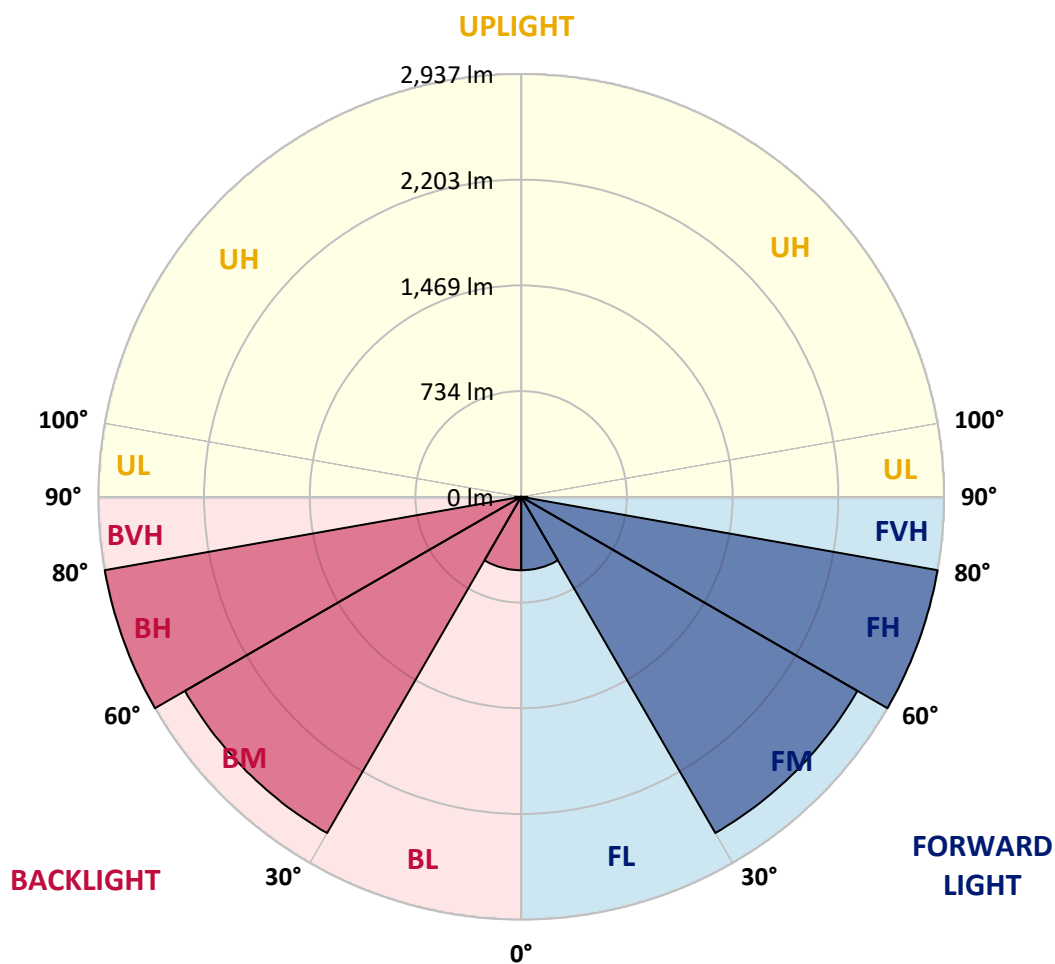
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.8	4.1			
FM	(30°-60°)	2696.6	21.8			
FH	(60°-80°)	2937.2	23.7			G2/5000
FVH	(80°-90°)	43.2	0.3			G1/100
BL	(0°-30°)	509.8	4.1	B2/1000		
BM	(30°-60°)	2696.6	21.8	B3/5000		
BH	(60°-80°)	2937.2	23.7	B4/5000		G2/5000
BVH	(80°-90°)	43.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1
2.5°	1228.5	1229.7	1229.7	1229.7	1229.0	1229.0	1228.0	1229.0	1228.5	1226.9	1227.4
5°	1218.2	1219.5	1219.5	1218.9	1220.5	1220.0	1218.2	1219.5	1218.9	1217.7	1218.2
7.5°	1203.5	1205.2	1205.2	1204.6	1206.3	1205.7	1204.6	1205.2	1205.2	1203.5	1203.5
10°	1187.0	1188.0	1188.0	1187.5	1190.4	1190.4	1189.9	1191.6	1192.1	1190.4	1189.3
12.5°	1171.6	1173.3	1173.3	1175.6	1178.5	1179.6	1182.4	1184.7	1187.0	1186.4	1184.2
15°	1162.5	1163.6	1165.9	1168.7	1173.3	1177.3	1181.8	1187.0	1191.6	1192.7	1189.3
17.5°	1156.8	1158.5	1162.0	1165.9	1172.3	1179.0	1185.9	1192.7	1198.9	1201.2	1197.3
20°	1155.1	1156.3	1159.7	1166.5	1175.1	1185.3	1195.0	1203.0	1211.4	1214.3	1211.4
22.5°	1158.5	1160.8	1164.8	1172.8	1184.2	1197.3	1208.6	1219.5	1230.3	1235.4	1231.4
25°	1173.9	1176.1	1181.3	1191.6	1204.0	1217.7	1230.8	1243.4	1252.9	1258.1	1255.3
27.5°	1202.4	1205.2	1211.4	1221.7	1235.4	1250.2	1264.3	1274.6	1282.6	1284.4	1280.8
30°	1245.0	1251.2	1258.6	1270.0	1286.0	1298.5	1312.8	1321.8	1331.6	1331.6	1328.7
32.5°	1311.6	1317.8	1325.9	1336.7	1349.2	1362.8	1375.3	1383.3	1393.6	1394.1	1387.3
35°	1411.2	1414.1	1420.8	1427.7	1439.1	1451.1	1461.8	1467.0	1475.4	1476.1	1469.7
37.5°	1542.6	1543.2	1547.7	1550.1	1560.2	1573.4	1583.6	1587.0	1594.9	1593.9	1587.5
40°	1695.7	1698.6	1700.3	1703.7	1714.5	1727.0	1737.8	1739.5	1748.0	1746.3	1738.5
42.5°	1872.7	1873.8	1883.5	1888.6	1898.8	1905.2	1918.8	1920.4	1930.7	1926.1	1917.1
45°	2071.2	2081.5	2090.5	2100.8	2111.7	2119.1	2129.9	2127.6	2134.4	2127.6	2122.5
47.5°	2280.1	2287.5	2308.0	2324.0	2341.5	2347.8	2363.2	2356.4	2363.2	2353.5	2351.8
50°	2510.0	2523.1	2540.8	2559.0	2577.7	2588.0	2607.8	2599.3	2608.4	2599.3	2594.2
52.5°	2736.5	2739.9	2778.6	2805.3	2831.5	2843.5	2855.4	2851.4	2852.0	2851.4	2846.3
55°	2951.5	2959.5	2998.2	3034.6	3080.1	3113.7	3134.2	3131.9	3126.8	3121.6	3113.2
57.5°	3193.9	3202.0	3246.3	3291.2	3343.0	3390.9	3432.4	3475.1	3491.6	3496.1	3477.2
60°	3521.8	3521.1	3580.3	3634.9	3709.0	3780.1	3871.0	3963.8	4070.2	4119.7	4054.3
62.5°	3855.2	3868.9	3954.2	4050.9	4203.4	4351.9	4519.8	4684.8	4853.2	4990.4	4844.7
65°	3815.4	3867.7	3994.5	4213.7	4495.4	4830.0	5191.8	5574.7	5920.8	6158.6	5891.7
67.5°	3306.6	3381.1	3510.3	3776.6	4128.9	4611.4	5219.1	5976.5	6856.8	7282.4	6755.0
70°	2396.7	2481.0	2616.4	2876.5	3225.3	3683.9	4343.9	5253.3	6418.7	6847.8	6266.7
72.5°	1192.7	1238.2	1321.8	1487.4	1751.4	2123.6	2722.2	3596.3	4627.3	5021.1	4490.2
75°	405.2	426.2	440.5	494.5	578.1	724.4	1022.0	1572.2	2398.5	2875.2	2364.3
77.5°	234.0	234.5	244.0	253.8	268.0	284.0	323.7	425.0	735.2	1044.2	760.8
80°	151.4	150.8	158.8	166.2	175.8	183.8	186.1	196.8	227.0	269.1	240.7
82.5°	78.5	88.2	105.9	115.5	133.8	137.1	132.5	128.6	136.0	141.2	144.5
85°	43.2	37.5	56.4	72.8	80.9	82.0	82.0	77.3	80.2	78.5	85.3
87.5°	19.8	18.2	22.2	35.8	38.1	32.4	34.1	30.1	21.7	21.1	23.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1	1233.1
2.5°	1227.4	1228.0	1228.0	1229.7	1230.3	1231.4	1232.6	1233.1
5°	1217.7	1219.5	1218.2	1220.0	1220.0	1221.1	1221.1	1221.7
7.5°	1203.5	1205.2	1205.2	1205.2	1204.6	1206.3	1206.3	1206.3
10°	1188.7	1189.9	1189.3	1188.0	1187.0	1188.7	1188.0	1187.5
12.5°	1184.2	1181.3	1179.0	1178.0	1175.6	1176.1	1174.4	1174.4
15°	1187.0	1181.8	1178.0	1176.1	1173.9	1172.8	1171.6	1172.3
17.5°	1194.4	1188.0	1183.1	1180.1	1177.3	1175.6	1173.3	1173.9
20°	1207.5	1200.1	1192.7	1187.0	1181.8	1179.0	1177.3	1176.7
22.5°	1226.9	1216.0	1205.2	1196.7	1189.9	1185.9	1184.2	1183.1
25°	1249.1	1237.1	1224.6	1214.9	1208.1	1203.0	1199.5	1199.5
27.5°	1276.9	1267.2	1255.8	1244.5	1238.2	1233.1	1230.8	1229.7
30°	1323.5	1314.5	1305.3	1294.5	1286.5	1281.5	1277.5	1274.1
32.5°	1383.3	1375.9	1368.5	1360.5	1353.1	1346.3	1340.1	1337.3
35°	1467.6	1461.8	1456.8	1447.5	1444.7	1440.8	1437.5	1434.5
37.5°	1583.6	1581.3	1581.3	1571.7	1569.4	1567.7	1564.3	1564.8
40°	1736.1	1738.5	1735.6	1732.1	1730.4	1725.9	1725.9	1729.8
42.5°	1916.5	1918.1	1924.5	1918.8	1925.0	1919.3	1915.9	1918.8
45°	2125.8	2132.2	2144.6	2139.0	2143.0	2133.3	2121.4	2122.0
47.5°	2360.9	2366.5	2371.7	2367.7	2368.3	2352.4	2336.4	2332.4
50°	2605.0	2607.3	2610.1	2604.4	2605.7	2588.0	2569.8	2570.4
52.5°	2846.3	2857.1	2868.5	2853.1	2849.7	2829.9	2804.1	2794.0
55°	3122.3	3137.6	3124.5	3097.8	3071.1	3044.3	3010.7	3005.0
57.5°	3462.5	3436.3	3395.3	3344.8	3307.8	3270.2	3236.0	3221.8
60°	3935.9	3837.5	3763.6	3688.5	3641.2	3595.0	3550.2	3543.4
62.5°	4605.2	4435.1	4287.7	4132.3	4005.3	3906.3	3827.3	3805.1
65°	5443.9	5041.6	4692.8	4367.3	4084.4	3871.0	3736.7	3677.6
67.5°	5804.6	5010.3	4412.2	3950.2	3580.3	3322.0	3176.9	3104.6
70°	5100.8	4155.0	3504.6	3042.0	2705.2	2429.7	2298.3	2220.9
72.5°	3509.2	2643.1	2090.0	1706.0	1436.8	1206.3	1115.3	1108.4
75°	1575.6	1043.7	719.3	554.3	466.6	405.7	386.9	372.7
77.5°	441.0	326.0	290.7	271.9	253.8	232.7	224.7	226.5
80°	214.4	202.5	194.6	182.7	166.2	148.5	140.5	144.0
82.5°	142.2	140.5	145.7	137.1	113.2	96.1	80.9	74.0
85°	86.6	87.6	89.4	89.9	76.3	53.5	36.4	41.0
87.5°	34.1	39.3	42.7	44.4	41.5	25.5	20.4	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)