

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: P323375

Luminaire Tested: **GAN-SA1D-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5347 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

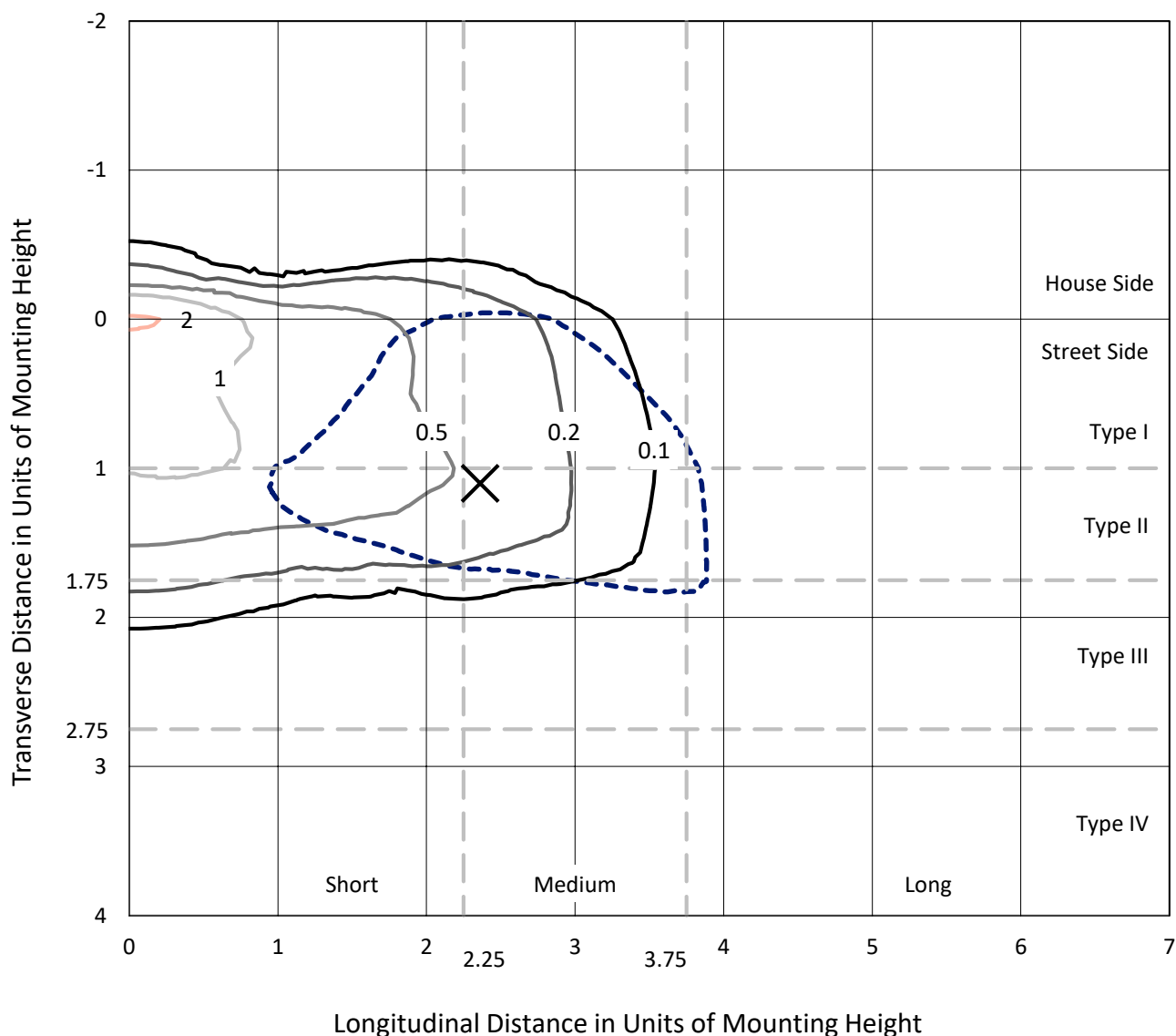
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

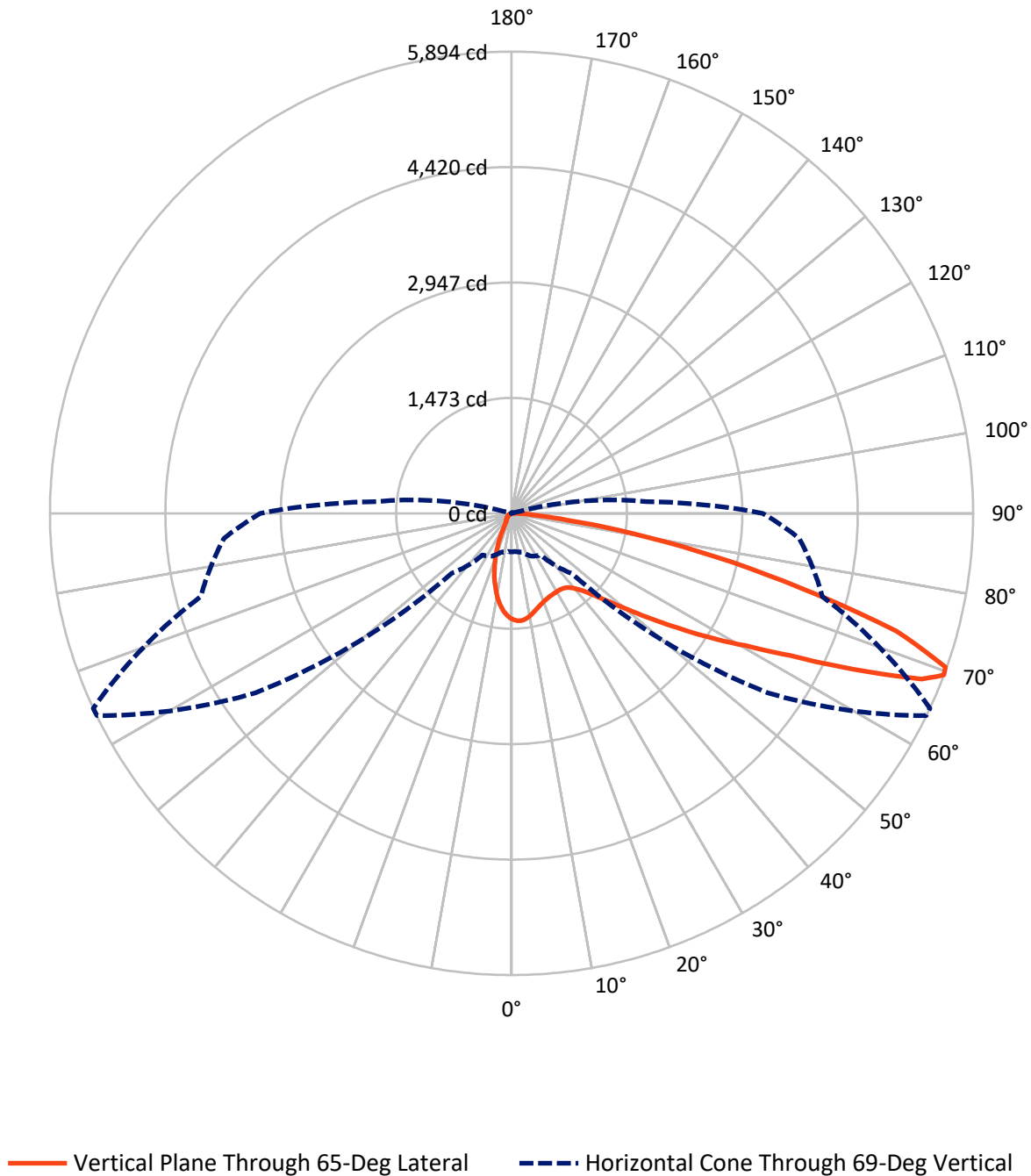
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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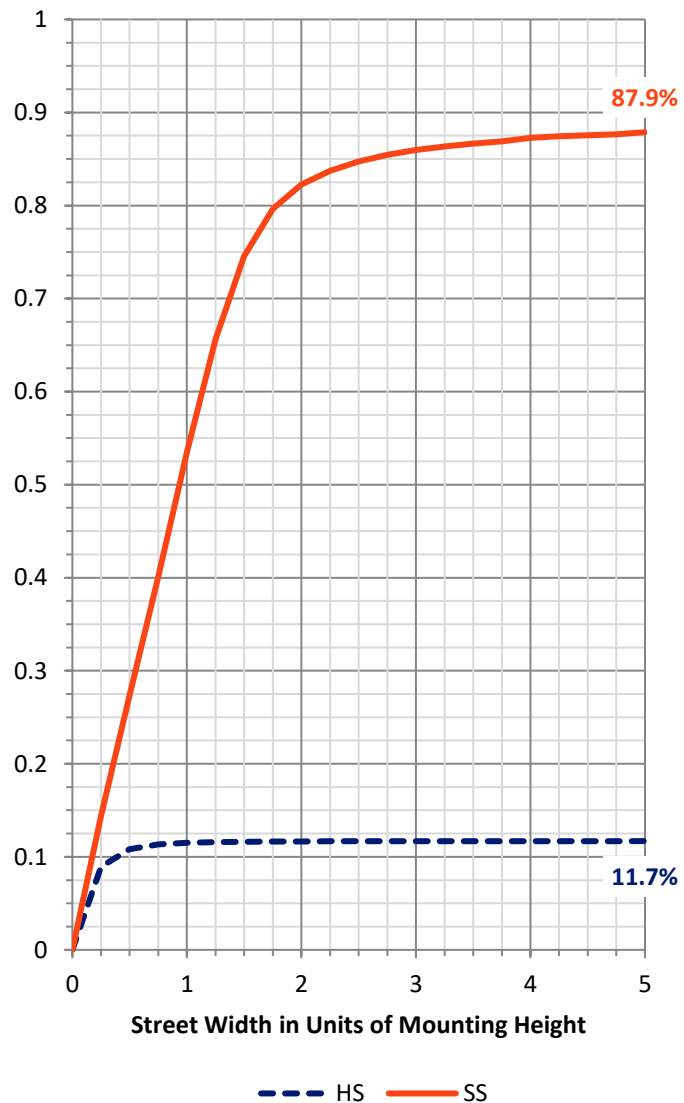
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.3	0.0	630.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4716.7	0.0	4716.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	5347.0	0.0	5347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	2.1
10°-20°	247.3	4.6
20°-30°	342.6	6.4
30°-40°	477.7	8.9
40°-50°	742.4	13.9
50°-60°	1191.9	22.3
60°-70°	1348.2	25.2
70°-80°	791.8	14.8
80°-90°	92.1	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°	5347.0	100.0
0°-180°	5347.0	100.0

Coefficient of Utilization



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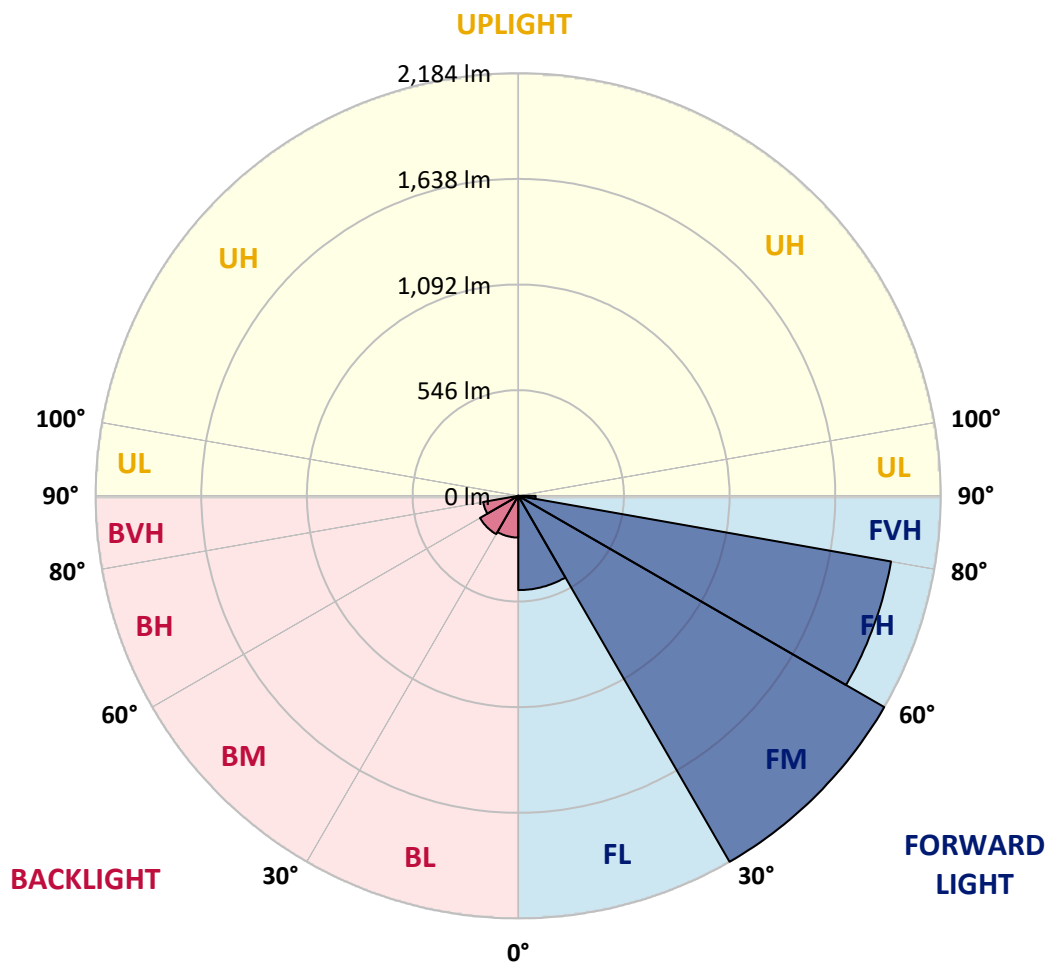
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.2	9.1			
FM	(30°-60°)	2183.6	40.8			
FH	(60°-80°)	1955.9	36.6			G2/5000
FVH	(80°-90°)	90.0	1.7			G1/100
BL	(0°-30°)	215.7	4.0	B1/500		
BM	(30°-60°)	228.4	4.3	B1/1000		
BH	(60°-80°)	184.2	3.4	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2
2.5°	1363.2	1359.8	1362.5	1368.4	1371.3	1371.3	1373.6	1370.9	1371.8	1365.2	1355.7
5°	1277.9	1272.7	1280.2	1296.7	1317.0	1334.5	1360.2	1373.8	1375.2	1375.4	1364.3
7.5°	1186.0	1181.3	1192.4	1211.8	1238.1	1270.4	1315.4	1354.8	1357.1	1378.3	1370.2
10°	1111.4	1108.0	1120.9	1141.7	1172.5	1208.7	1263.9	1318.6	1325.2	1372.2	1369.3
12.5°	1052.1	1049.4	1061.6	1085.6	1117.0	1157.1	1214.8	1278.3	1287.2	1358.4	1364.8
15°	1008.9	1008.4	1018.6	1041.7	1076.5	1113.9	1172.9	1241.0	1251.2	1343.5	1364.1
17.5°	986.2	986.9	994.4	1014.1	1043.9	1081.0	1137.6	1209.6	1220.6	1330.2	1367.5
20°	984.0	984.7	988.7	999.8	1024.0	1056.8	1108.9	1183.1	1194.6	1320.2	1372.9
22.5°	1003.9	1003.4	1004.6	1003.4	1017.0	1041.9	1089.9	1162.7	1176.1	1313.6	1377.2
25°	1042.1	1041.5	1041.0	1032.6	1023.6	1036.9	1082.0	1151.2	1163.9	1308.9	1379.7
27.5°	1095.3	1094.8	1094.2	1080.4	1053.2	1044.8	1082.9	1146.9	1157.5	1305.0	1379.3
30°	1165.2	1168.4	1167.5	1148.2	1105.9	1069.1	1092.4	1144.6	1153.9	1297.6	1374.5
32.5°	1247.3	1253.7	1258.7	1238.1	1185.1	1117.0	1114.3	1147.1	1153.9	1291.9	1365.9
35°	1332.6	1340.8	1359.1	1351.9	1282.2	1189.2	1152.1	1162.0	1167.7	1295.1	1361.8
37.5°	1416.6	1426.3	1466.1	1487.2	1409.3	1284.7	1210.9	1198.9	1201.9	1314.3	1366.4
40°	1514.1	1528.8	1589.2	1623.2	1561.2	1412.5	1298.9	1262.3	1263.4	1356.6	1387.4
42.5°	1642.2	1657.3	1722.7	1775.9	1732.2	1574.1	1418.4	1359.1	1358.0	1435.8	1436.9
45°	1798.3	1814.1	1881.8	1940.8	1921.1	1765.5	1571.3	1500.5	1499.2	1560.7	1530.8
47.5°	1975.2	1990.8	2051.2	2112.1	2133.4	1989.0	1766.1	1693.5	1690.4	1734.2	1675.9
50°	2127.0	2137.2	2192.9	2274.8	2370.7	2263.7	2008.5	1938.6	1935.2	1964.8	1888.8
52.5°	2182.2	2188.1	2244.7	2359.4	2598.8	2635.6	2326.8	2236.8	2234.3	2247.2	2172.3
55°	2070.5	2081.1	2150.6	2320.7	2722.3	3056.0	2728.6	2606.0	2587.2	2559.4	2468.7
57.5°	1765.9	1782.9	1857.6	2083.8	2664.6	3389.5	3319.2	3023.7	2996.1	2825.9	2709.6
60°	1323.1	1344.0	1406.0	1650.1	2356.7	3508.3	3964.4	3489.1	3426.9	3038.2	2931.1
62.5°	908.0	918.4	960.5	1119.5	1735.6	3313.7	4504.3	4112.4	3998.8	3268.9	3170.7
65°	693.5	697.1	714.3	769.0	1033.5	2691.8	4719.0	4934.9	4797.5	3545.0	3419.4
67.5°	558.9	555.9	579.7	658.0	692.1	1642.2	4468.5	5712.9	5648.7	3914.0	3669.6
69°	492.8	488.7	512.9	603.9	650.0	1085.6	3994.8	5889.7	5893.7	4108.8	3686.8
70°	443.5	446.2	470.2	571.7	635.8	852.1	3542.3	5844.6	5876.8	4181.6	3583.7
72.5°	296.2	303.4	351.6	474.7	611.3	644.8	2138.8	5015.4	5138.9	4017.6	3074.6
75°	167.0	172.4	229.6	357.9	576.0	614.1	1129.7	3695.0	3814.4	3359.7	2370.9
77.5°	81.9	84.8	129.9	231.0	481.7	585.1	640.8	2509.8	2646.3	2192.9	1341.0
80°	34.6	36.2	64.9	142.5	344.4	558.4	475.8	1544.6	1561.6	859.1	357.3
82.5°	13.3	13.8	27.4	88.9	218.8	435.3	398.0	732.4	714.7	161.8	81.5
85°	1.6	1.8	10.0	53.4	121.7	224.0	323.3	315.6	292.1	32.1	41.9
87.5°	0.0	0.0	0.7	16.3	36.2	105.0	168.1	131.0	118.1	10.4	21.7
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°	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2	1351.2
2.5°	1347.8	1345.5	1333.3	1315.7	1298.9	1278.1	1258.2	1246.2	1236.7	1230.4	1237.8
5°	1351.4	1341.5	1304.4	1256.8	1210.2	1157.7	1108.9	1067.5	1051.2	1033.1	1041.2
7.5°	1350.3	1331.5	1264.8	1180.1	1094.6	1006.2	922.4	858.0	824.5	791.7	800.0
10°	1344.6	1313.0	1211.8	1086.5	958.4	831.3	712.5	622.2	571.7	526.0	532.6
12.5°	1332.2	1288.1	1149.4	979.2	808.0	640.3	501.2	385.5	323.5	296.2	299.6
15°	1324.7	1263.9	1083.3	870.6	647.3	445.9	306.3	227.8	199.6	190.5	191.6
17.5°	1321.1	1240.6	1015.0	746.4	483.1	284.0	198.0	174.7	168.6	167.0	167.4
20°	1317.5	1217.0	944.6	623.6	332.8	191.0	162.7	155.9	153.6	151.6	152.0
22.5°	1311.4	1194.4	869.0	499.1	224.4	155.0	146.6	140.1	135.3	132.8	133.3
25°	1303.9	1170.6	791.9	371.7	163.8	138.2	130.3	121.0	115.4	110.9	111.1
27.5°	1291.9	1141.5	712.3	270.6	137.6	123.8	113.1	102.9	93.4	88.2	88.2
30°	1275.2	1108.4	623.8	193.7	123.3	109.5	96.6	83.9	73.8	69.0	68.6
32.5°	1256.6	1074.0	534.4	146.8	112.0	96.2	81.5	68.1	59.1	55.2	55.0
35°	1240.8	1036.9	445.3	123.1	100.7	83.3	67.2	55.9	48.6	45.5	45.3
37.5°	1230.6	999.8	358.4	110.0	90.5	71.3	56.3	46.2	41.0	38.5	38.2
40°	1229.0	972.2	279.0	100.0	81.0	60.6	47.1	39.1	34.4	31.7	31.4
42.5°	1249.6	956.4	214.0	91.6	71.3	51.4	40.0	33.5	28.5	25.8	25.6
45°	1303.7	961.4	164.7	84.2	61.5	43.4	33.9	27.8	23.3	21.3	20.8
47.5°	1402.3	995.7	131.0	76.7	52.3	36.9	29.0	23.1	19.2	17.2	17.0
50°	1577.9	1076.5	109.5	68.6	43.7	31.4	24.0	18.8	15.6	13.8	13.6
52.5°	1810.9	1220.4	97.7	60.6	36.2	26.7	19.7	14.9	12.2	10.9	10.6
55°	2068.0	1394.6	90.0	52.0	29.6	22.2	15.6	11.8	9.5	8.4	7.9
57.5°	2318.9	1545.5	82.8	43.7	24.7	18.1	12.4	9.3	7.5	6.3	6.1
60°	2549.4	1684.2	74.4	35.1	20.1	14.3	9.7	7.2	5.9	4.8	4.8
62.5°	2796.3	1791.5	62.9	27.4	16.5	10.9	7.9	6.6	4.8	4.1	3.8
65°	3057.8	1871.1	49.3	21.3	12.9	8.1	6.6	6.8	3.8	2.9	2.7
67.5°	3251.1	1855.3	36.4	16.7	10.0	6.3	6.3	7.2	3.4	2.3	2.0
69°	3208.5	1726.6	30.5	14.5	8.6	5.4	5.9	7.2	3.2	2.0	1.8
70°	3085.2	1584.0	26.9	12.9	7.7	5.0	5.7	7.0	2.9	2.0	1.8
72.5°	2569.4	1193.0	21.0	9.7	6.1	4.1	4.8	6.1	2.9	2.0	1.6
75°	1932.7	763.6	16.1	7.0	4.5	3.2	3.6	4.5	2.9	1.8	1.6
77.5°	1051.6	275.4	11.5	4.8	3.2	2.5	2.5	3.4	2.7	1.4	0.9
80°	270.4	69.2	7.2	3.2	2.5	1.8	1.6	2.3	1.6	0.2	0.0
82.5°	66.7	15.6	3.8	2.3	1.8	0.7	0.7	1.1	0.7	0.0	0.0
85°	36.7	7.7	2.5	1.6	0.9	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	18.8	2.3	0.7	0.5	0.2	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)