

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: P319285

Luminaire Tested: **GAN-SA1C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6067 lumens
Efficiency: N/A
Efficacy: 102.8 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

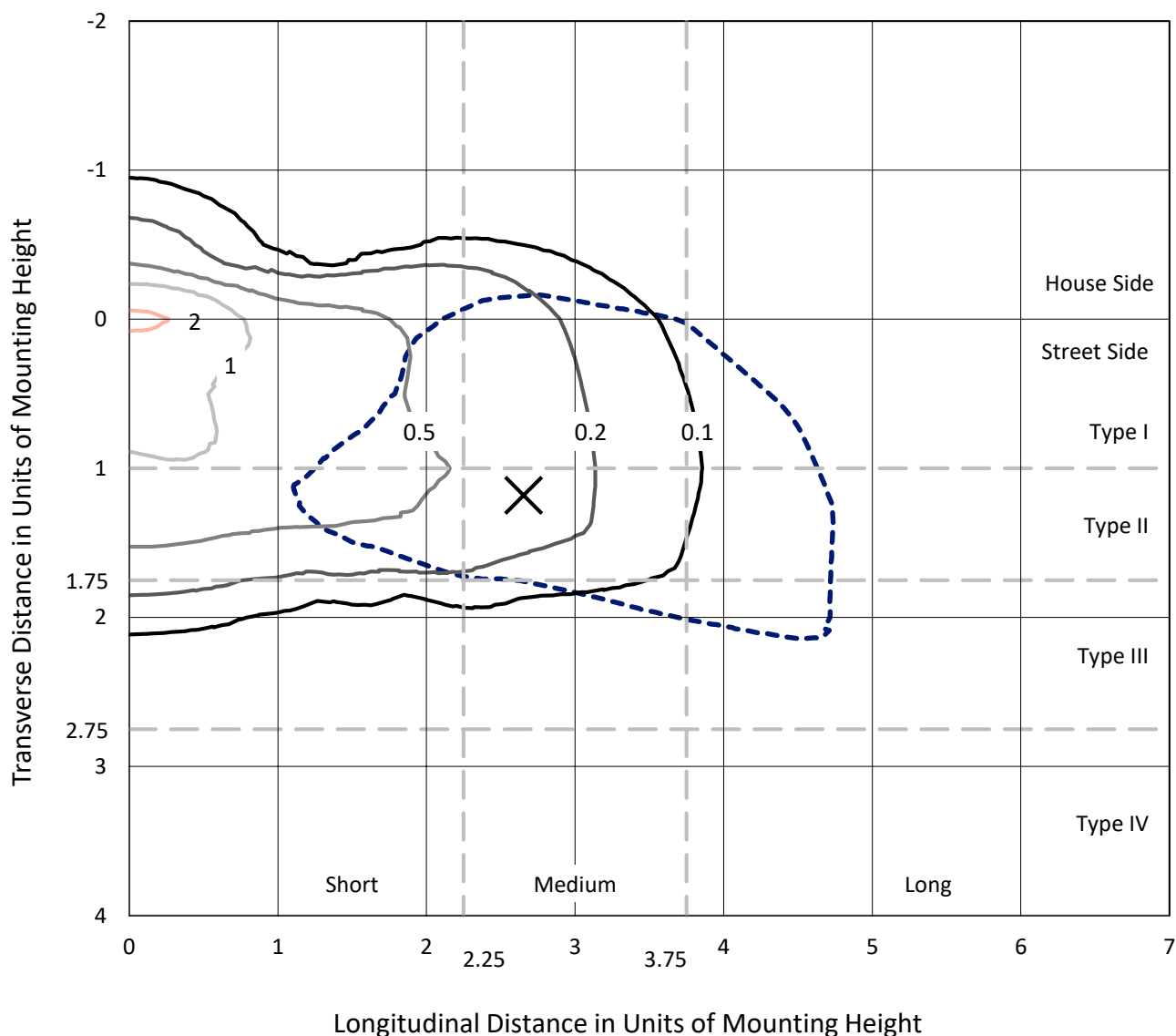
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

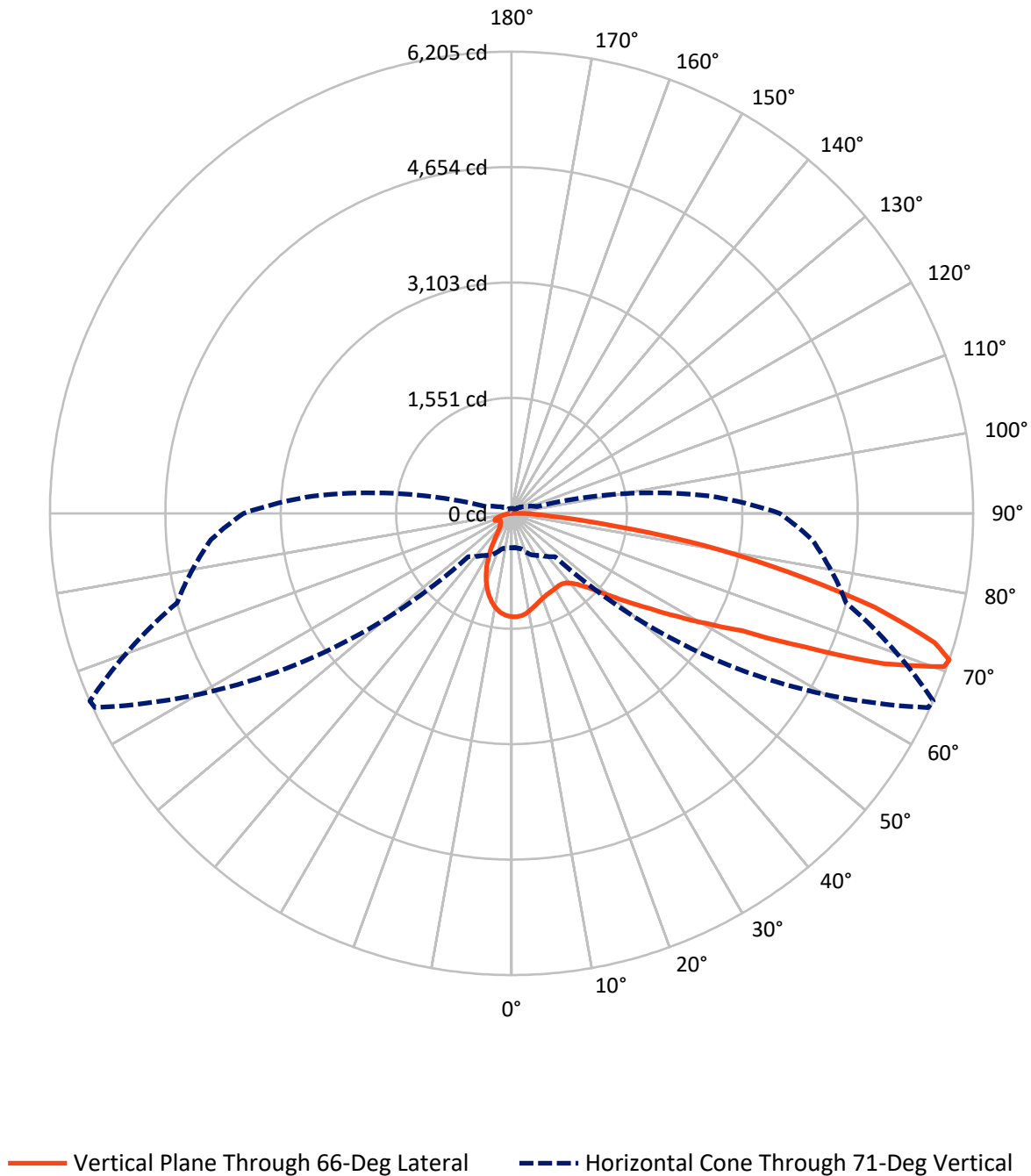
× Max cd
 - - - 1/2 Max cd



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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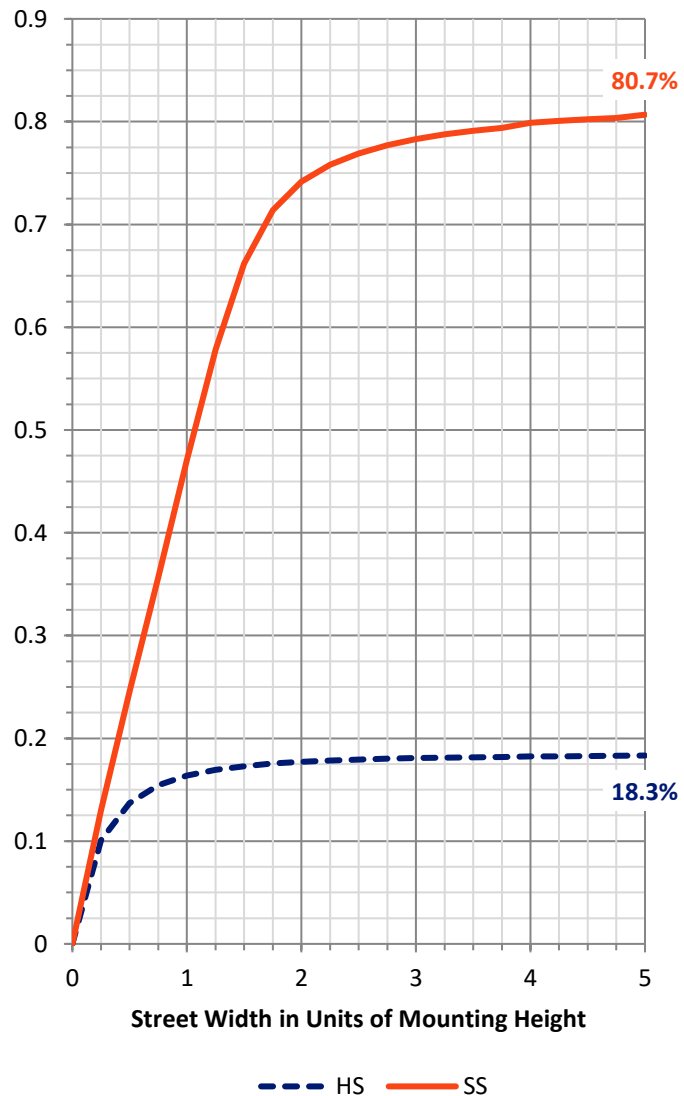
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.4	0.0	1124.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	4942.6	0.0	4942.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	6067.0	0.0	6067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	2.0
10°-20°	293.4	4.8
20°-30°	394.1	6.5
30°-40°	518.5	8.5
40°-50°	754.3	12.4
50°-60°	1178.2	19.4
60°-70°	1475.9	24.3
70°-80°	1125.8	18.6
80°-90°	204.4	3.4
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°	6067.0	100.0
0°-180°	6067.0	100.0

Coefficient of Utilization



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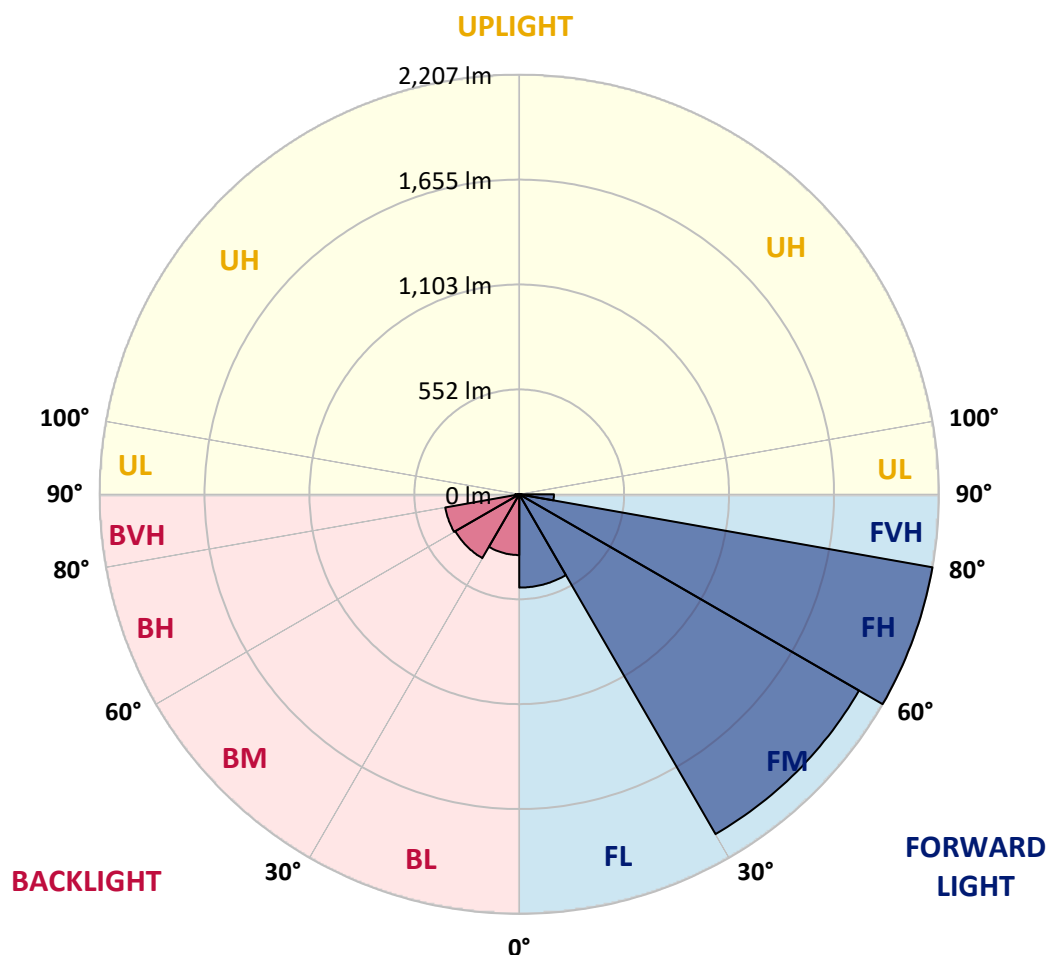
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.6	8.1			
FM	(30°-60°)	2063.1	34.0			
FH	(60°-80°)	2206.6	36.4			G2/5000
FVH	(80°-90°)	182.3	3.0			G2/225
BL	(0°-30°)	319.3	5.3	B1/500		
BM	(30°-60°)	387.9	6.4	B1/1000		
BH	(60°-80°)	395.1	6.5	B1/500		G1/500
BVH	(80°-90°)	22.1	0.4			G1/100
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°	65°	66°	75°	85°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1364.1	1362.0	1368.3	1374.8	1377.3	1381.5	1387.7	1391.3	1391.1	1391.7	1389.6
5°	1273.6	1270.9	1283.4	1293.7	1313.4	1335.6	1362.6	1381.9	1382.3	1393.2	1396.1
7.5°	1187.9	1186.0	1200.5	1217.0	1239.9	1273.8	1317.6	1359.0	1361.6	1391.1	1401.4
10°	1119.2	1118.8	1132.8	1150.8	1177.4	1215.3	1265.6	1326.4	1330.1	1381.0	1402.2
12.5°	1065.6	1066.4	1078.6	1099.1	1127.2	1166.7	1221.2	1289.7	1295.8	1365.1	1397.4
15°	1026.0	1029.3	1039.2	1059.9	1087.6	1127.8	1183.7	1255.8	1265.0	1347.3	1394.7
17.5°	1003.4	1007.1	1014.0	1031.2	1057.2	1095.9	1148.9	1227.9	1236.3	1333.7	1394.9
20°	996.7	999.8	1003.8	1014.3	1036.2	1071.4	1121.5	1202.8	1211.8	1322.8	1397.0
22.5°	1009.9	1012.2	1012.6	1011.7	1025.1	1053.8	1101.6	1184.3	1194.0	1315.7	1398.4
25°	1038.1	1041.3	1039.0	1031.2	1026.8	1044.4	1091.3	1172.2	1181.8	1310.4	1395.5
27.5°	1080.7	1081.1	1079.2	1069.1	1048.4	1045.5	1088.2	1165.1	1174.3	1304.4	1389.4
30°	1138.5	1141.2	1137.8	1124.2	1090.3	1062.2	1092.0	1158.2	1166.5	1296.6	1379.6
32.5°	1206.1	1212.8	1212.6	1198.4	1149.8	1099.7	1107.5	1154.0	1160.5	1288.4	1367.6
35°	1276.3	1285.5	1302.7	1296.6	1236.5	1159.0	1137.2	1160.7	1165.1	1287.4	1359.2
37.5°	1349.2	1358.4	1393.8	1410.2	1339.8	1243.8	1184.1	1184.3	1186.4	1300.2	1358.6
40°	1425.4	1435.3	1488.5	1531.0	1473.6	1351.3	1259.8	1233.8	1231.5	1331.6	1371.0
42.5°	1532.3	1541.1	1605.0	1659.2	1622.1	1488.9	1364.3	1310.0	1305.2	1393.2	1410.6
45°	1667.4	1674.9	1742.8	1800.8	1781.8	1646.0	1495.6	1415.0	1414.1	1495.8	1490.8
47.5°	1828.0	1833.9	1894.9	1951.0	1957.9	1826.8	1660.7	1576.9	1563.3	1636.6	1615.0
50°	1995.4	2001.9	2043.4	2103.7	2155.0	2068.7	1873.1	1775.3	1757.0	1822.4	1791.0
52.5°	2106.2	2114.8	2150.8	2227.3	2376.6	2333.9	2124.2	2015.7	1988.1	2047.6	2023.5
55°	2056.8	2076.1	2131.1	2253.7	2553.9	2739.0	2434.0	2296.2	2265.0	2314.4	2300.2
57.5°	1832.0	1858.4	1933.6	2122.8	2578.8	3096.0	2902.4	2626.5	2604.5	2590.3	2596.8
60°	1421.3	1446.6	1539.8	1786.4	2405.1	3356.5	3607.3	3033.8	3001.9	2867.2	2873.1
62.5°	1005.9	993.1	1057.0	1237.3	1954.4	3387.1	4409.3	3578.4	3473.6	3159.6	3133.9
65°	767.1	764.1	792.8	850.2	1183.7	3021.2	4887.1	4493.8	4330.2	3503.6	3442.8
67.5°	630.3	625.1	653.3	736.9	762.3	1949.1	4897.6	5555.8	5395.1	3931.7	3800.2
70°	518.2	512.4	538.8	646.6	704.4	988.5	4121.9	6177.7	6169.1	4473.9	4070.0
71°	464.6	460.4	492.0	611.9	692.1	823.8	3558.9	6179.4	6205.1	4657.4	4054.1
72.5°	378.3	379.8	413.3	544.6	682.9	727.5	2615.6	5891.3	5945.8	4832.3	3909.3
75°	251.4	252.6	296.6	418.9	662.1	711.8	1437.6	4943.5	5043.6	4727.5	3567.3
77.5°	168.8	168.4	198.4	287.4	576.9	711.8	842.9	3697.4	3807.3	3761.7	2750.1
80°	116.3	115.4	136.6	198.4	436.7	720.4	651.7	2591.1	2624.4	2031.4	1117.7
82.5°	71.2	71.8	89.2	140.1	297.2	648.3	615.2	1412.9	1376.6	569.8	279.2
85°	40.8	40.6	57.0	94.9	190.8	547.1	599.9	608.1	557.8	171.6	101.0
87.5°	14.7	15.7	30.6	52.6	109.3	381.0	509.0	316.3	285.1	77.5	45.7
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°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1388.2	1389.4	1387.9	1379.6	1372.4	1360.9	1354.4	1345.4	1342.7	1341.4	1344.8
5°	1393.4	1393.8	1381.5	1359.5	1334.7	1305.6	1284.7	1258.9	1246.8	1241.5	1244.9
7.5°	1398.2	1396.3	1369.3	1327.2	1281.5	1230.8	1185.8	1144.5	1120.5	1110.6	1111.4
10°	1398.8	1390.9	1347.5	1282.4	1211.6	1137.2	1068.1	1004.4	964.2	938.0	946.0
12.5°	1392.3	1378.9	1315.5	1224.4	1126.1	1024.7	931.3	835.8	778.4	751.8	752.6
15°	1387.3	1363.0	1276.1	1156.1	1024.1	889.8	762.3	650.0	588.8	561.6	548.8
17.5°	1383.1	1345.8	1230.4	1079.2	903.7	733.4	580.0	479.9	446.4	438.4	435.1
20°	1377.3	1327.6	1179.5	990.2	766.5	558.2	423.5	374.1	374.3	383.5	384.8
22.5°	1369.1	1306.9	1125.3	890.2	619.2	406.6	332.0	317.8	332.2	349.8	353.0
25°	1356.9	1282.4	1064.9	779.9	472.1	312.5	283.6	283.0	300.6	319.0	321.7
27.5°	1339.8	1250.3	997.9	661.3	347.9	265.6	254.1	258.5	271.5	284.9	285.9
30°	1316.7	1213.0	924.0	536.2	272.7	236.5	235.2	239.2	247.2	256.6	257.4
32.5°	1291.4	1175.1	845.0	415.2	233.6	220.8	222.0	223.9	227.7	231.5	232.3
35°	1268.3	1136.4	764.1	315.5	214.9	210.5	209.7	209.3	209.7	208.4	208.6
37.5°	1253.5	1104.3	679.9	251.2	204.2	201.5	199.0	195.9	192.3	190.2	190.6
40°	1248.0	1080.4	594.7	217.0	195.4	193.6	188.7	182.0	177.8	176.6	176.6
42.5°	1262.7	1068.1	512.4	199.8	188.1	185.0	177.0	169.3	166.1	165.9	165.7
45°	1307.5	1073.1	434.0	190.4	181.4	175.3	164.9	158.4	156.3	156.7	156.5
47.5°	1387.9	1104.7	367.0	184.1	174.7	166.7	155.0	149.8	147.3	147.3	147.5
50°	1524.7	1178.7	313.6	178.9	169.0	158.8	147.9	141.4	138.0	137.8	137.8
52.5°	1723.9	1311.1	280.3	174.5	162.8	151.7	140.8	132.6	128.6	127.8	127.4
55°	1973.6	1500.9	271.1	171.6	154.4	143.9	132.2	124.0	119.6	117.7	117.5
57.5°	2252.8	1731.7	289.3	168.0	145.8	134.7	122.7	115.0	110.4	108.1	107.9
60°	2535.4	1983.7	363.6	163.0	138.7	124.6	113.1	106.0	101.4	98.9	98.5
62.5°	2818.4	2249.3	515.5	162.5	133.6	115.0	103.3	97.2	92.8	90.1	89.4
65°	3137.6	2540.0	688.1	173.7	132.0	106.2	93.2	88.4	84.6	82.1	81.9
67.5°	3504.2	2868.3	671.6	196.5	137.6	98.2	83.8	80.0	77.3	75.2	75.0
70°	3676.2	2817.0	417.5	212.6	145.6	90.5	74.8	72.1	70.0	68.5	67.9
71°	3604.1	2674.7	350.0	210.7	144.7	87.1	71.2	69.1	67.0	65.8	65.1
72.5°	3407.7	2439.3	292.0	196.1	135.3	81.1	66.6	64.5	62.6	61.2	60.7
75°	3057.8	2178.5	233.8	156.7	107.9	68.5	58.4	56.1	54.7	53.8	53.0
77.5°	2247.8	1554.7	180.8	123.8	79.4	55.9	49.9	48.2	46.7	45.5	44.8
80°	861.1	602.2	121.7	92.4	58.2	44.2	40.2	39.4	37.9	37.1	37.1
82.5°	231.9	179.9	64.9	55.9	39.0	32.3	30.8	30.4	29.1	27.4	27.7
85°	93.8	79.4	36.4	30.8	23.9	19.1	20.7	20.9	19.5	17.4	17.6
87.5°	41.3	33.7	20.3	13.6	10.5	7.3	9.4	9.4	8.6	7.1	6.5
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)