

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: P323335

Luminaire Tested: **GAN-SA1D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323335
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-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 4947 lumens
Efficiency: N/A
Efficacy: 73.8 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

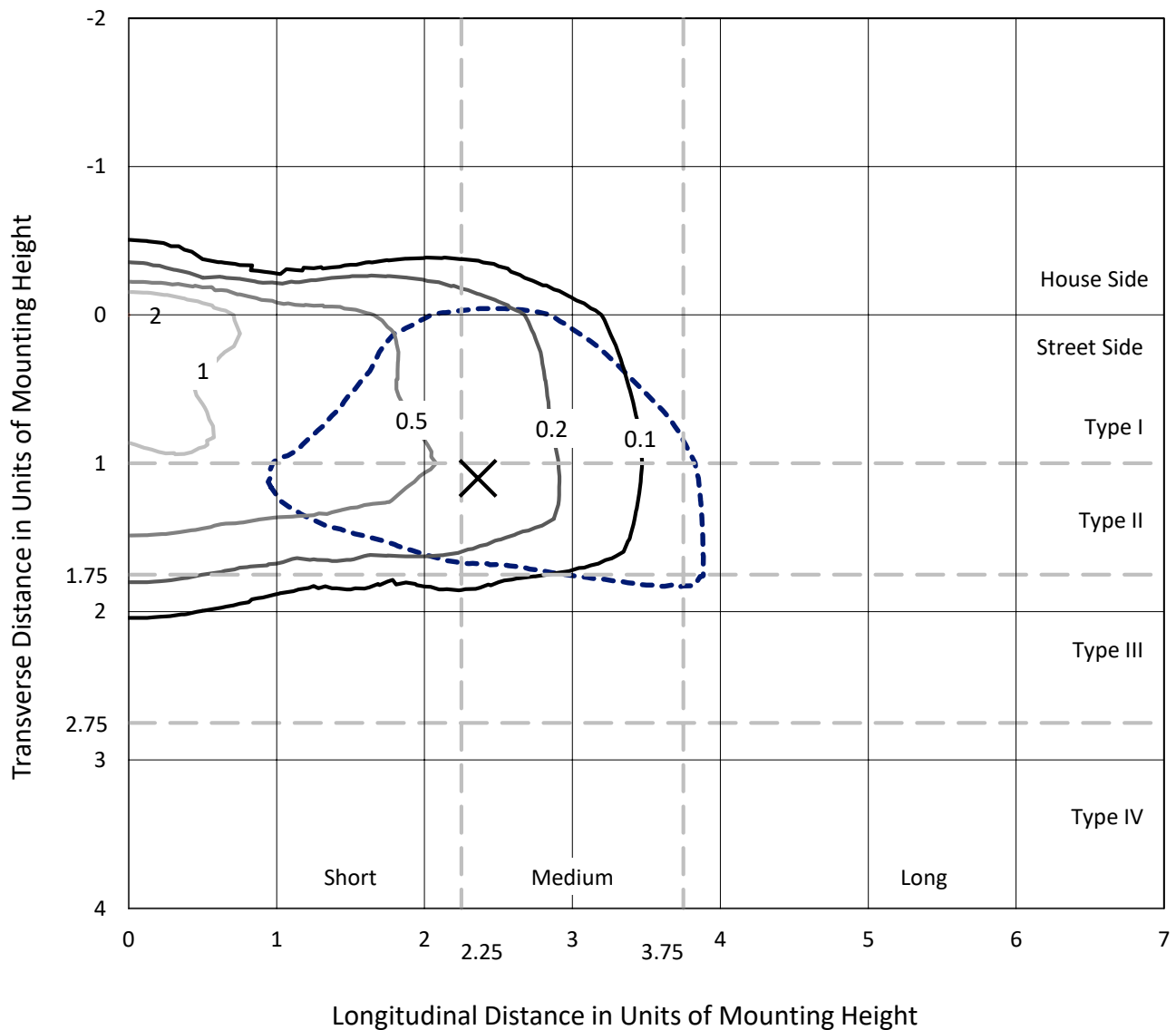
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

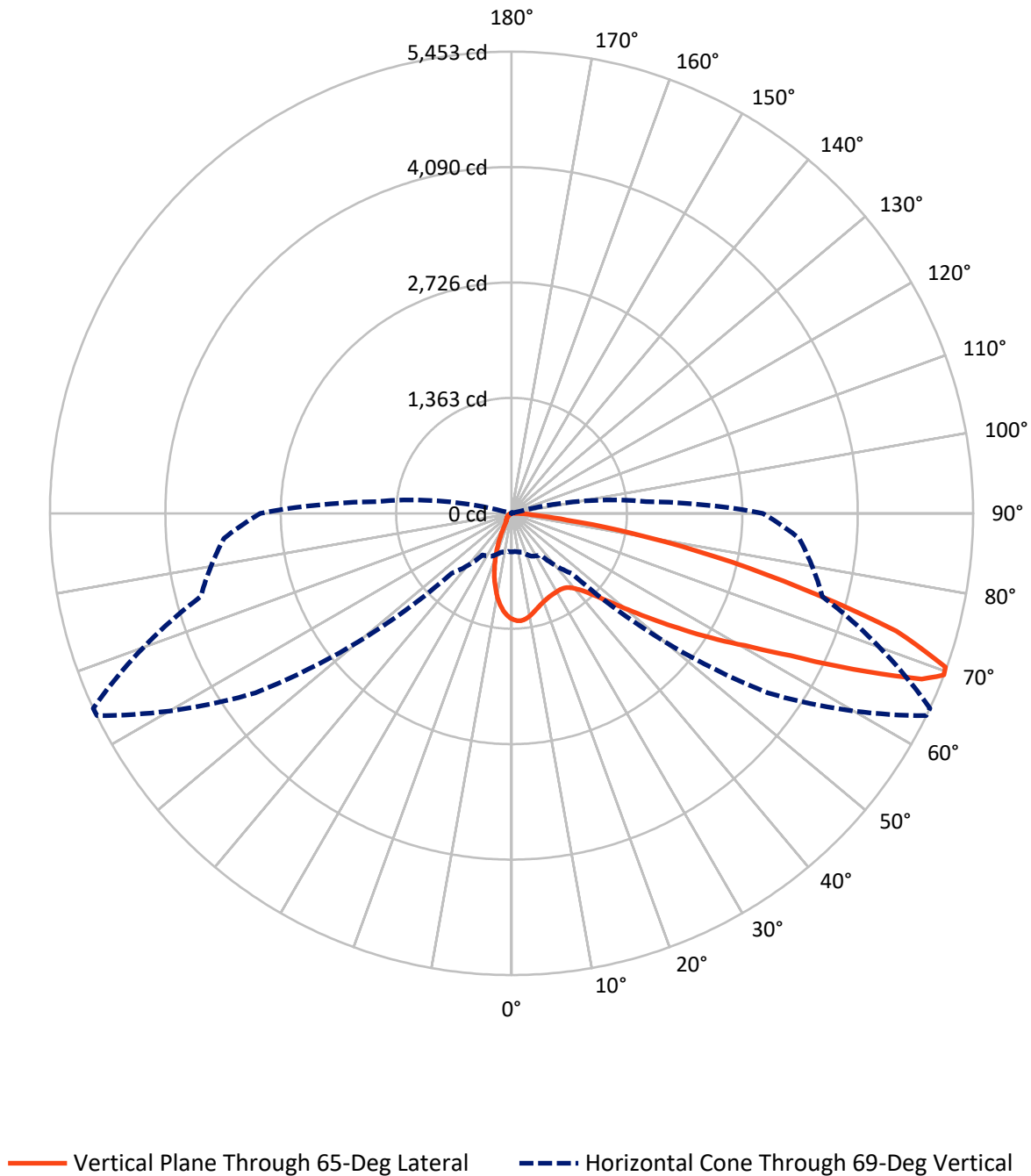
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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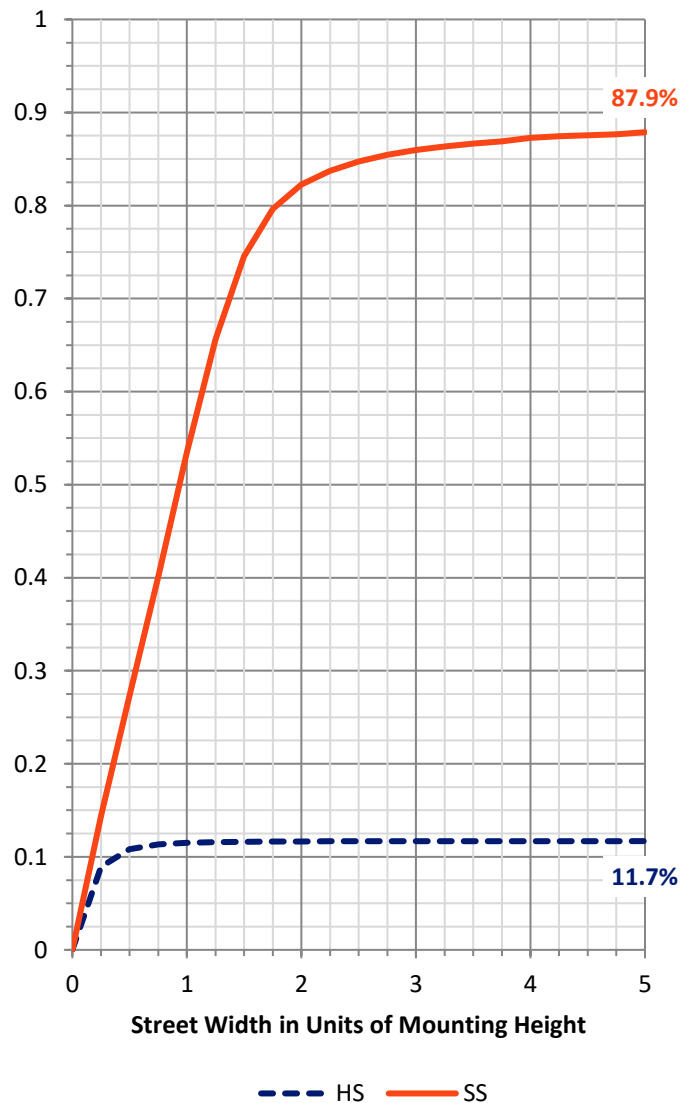
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.1	0.0	583.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4363.9	0.0	4363.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	4947.0	0.0	4947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	2.1
10°-20°	228.8	4.6
20°-30°	316.9	6.4
30°-40°	441.9	8.9
40°-50°	686.9	13.9
50°-60°	1102.7	22.3
60°-70°	1247.4	25.2
70°-80°	732.6	14.8
80°-90°	85.2	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°	4947.0	100.0
0°-180°	4947.0	100.0

Coefficient of Utilization



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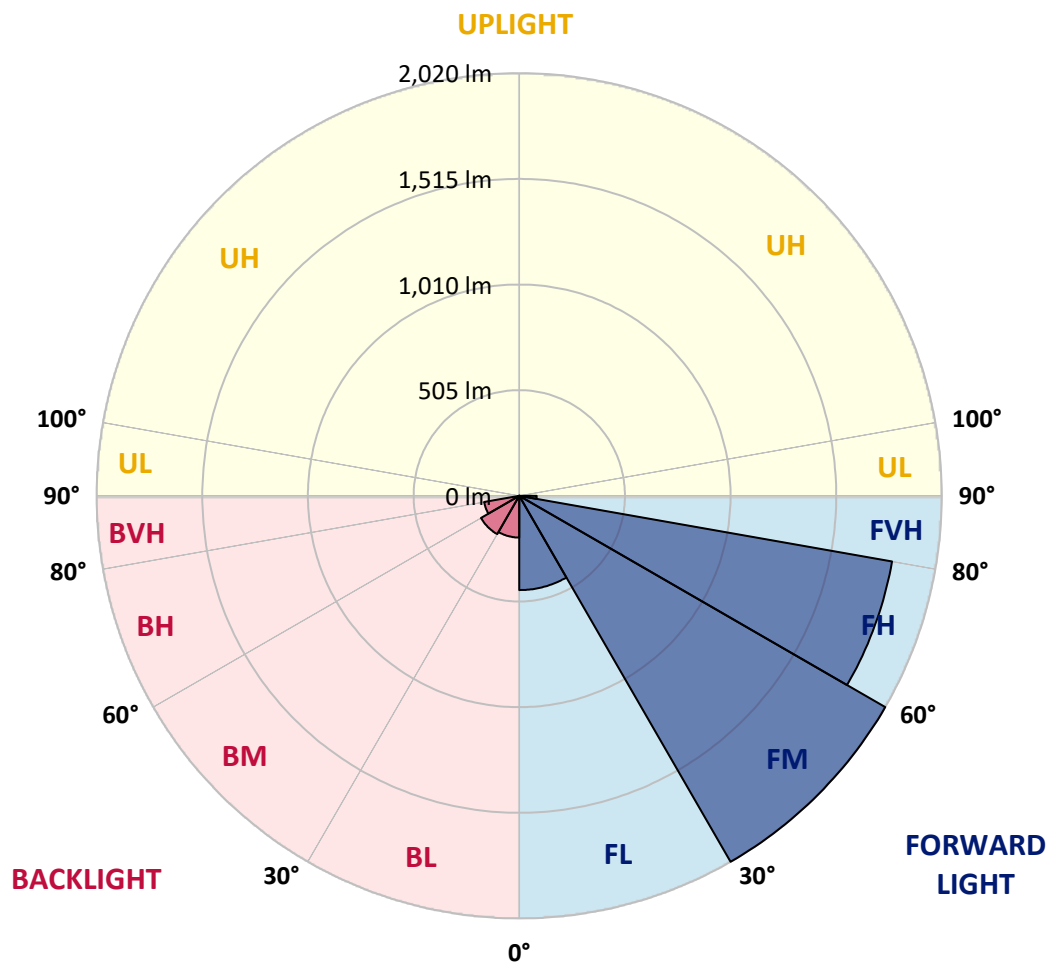
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.8	9.1			
FM	(30°-60°)	2020.2	40.8			
FH	(60°-80°)	1809.6	36.6			G2/5000
FVH	(80°-90°)	83.3	1.7			G1/100
BL	(0°-30°)	199.5	4.0	B1/500		
BM	(30°-60°)	211.3	4.3	B0/220		
BH	(60°-80°)	170.4	3.4	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1
2.5°	1261.2	1258.1	1260.6	1266.0	1268.7	1268.7	1270.8	1268.3	1269.2	1263.1	1254.3
5°	1182.3	1177.5	1184.4	1199.7	1218.5	1234.6	1258.5	1271.0	1272.3	1272.5	1262.3
7.5°	1097.3	1092.9	1103.2	1121.2	1145.5	1175.4	1217.0	1253.5	1255.6	1275.2	1267.7
10°	1028.2	1025.1	1037.0	1056.3	1084.7	1118.2	1169.3	1220.0	1226.0	1269.6	1266.9
12.5°	973.4	970.9	982.2	1004.4	1033.5	1070.5	1123.9	1182.7	1190.9	1256.8	1262.7
15°	933.4	933.0	942.4	963.8	996.0	1030.5	1085.2	1148.2	1157.6	1243.0	1262.0
17.5°	912.5	913.1	920.0	938.2	965.8	1000.2	1052.5	1119.1	1129.3	1230.6	1265.2
20°	910.4	911.0	914.8	925.0	947.4	977.8	1025.9	1094.6	1105.3	1221.4	1270.2
22.5°	928.8	928.4	929.4	928.4	940.9	964.0	1008.3	1075.7	1088.1	1215.4	1274.2
25°	964.2	963.5	963.1	955.4	947.0	959.4	1001.0	1065.1	1076.8	1211.0	1276.5
27.5°	1013.4	1012.9	1012.3	999.5	974.4	966.7	1001.9	1061.1	1070.9	1207.4	1276.1
30°	1078.0	1081.0	1080.1	1062.3	1023.2	989.1	1010.6	1059.0	1067.6	1200.5	1271.7
32.5°	1154.0	1159.9	1164.5	1145.5	1096.5	1033.5	1030.9	1061.3	1067.6	1195.3	1263.7
35°	1233.0	1240.5	1257.4	1250.7	1186.3	1100.2	1065.9	1075.1	1080.3	1198.2	1260.0
37.5°	1310.6	1319.6	1356.5	1375.9	1303.9	1188.6	1120.3	1109.2	1112.0	1216.0	1264.1
40°	1400.8	1414.4	1470.3	1501.7	1444.4	1306.8	1201.8	1167.8	1168.9	1255.1	1283.6
42.5°	1519.3	1533.3	1593.8	1643.0	1602.6	1456.3	1312.3	1257.4	1256.4	1328.4	1329.5
45°	1663.8	1678.4	1741.0	1795.6	1777.4	1633.4	1453.8	1388.3	1387.0	1444.0	1416.3
47.5°	1827.4	1841.9	1897.8	1954.1	1973.8	1840.2	1634.0	1566.8	1563.9	1604.5	1550.5
50°	1967.9	1977.3	2028.8	2104.6	2193.4	2094.3	1858.2	1793.5	1790.4	1817.8	1747.5
52.5°	2019.0	2024.4	2076.8	2182.9	2404.4	2438.5	2152.7	2069.4	2067.1	2079.1	2009.8
55°	1915.6	1925.4	1989.7	2147.1	2518.7	2827.4	2524.5	2411.1	2393.7	2367.9	2284.0
57.5°	1633.8	1649.5	1718.6	1927.9	2465.3	3136.0	3070.9	2797.5	2771.9	2614.5	2506.9
60°	1224.2	1243.4	1300.8	1526.6	2180.4	3245.9	3667.9	3228.1	3170.5	2810.9	2711.9
62.5°	840.0	849.7	888.6	1035.8	1605.8	3065.8	4167.3	3804.8	3699.7	3024.4	2933.5
65°	641.6	644.9	660.9	711.5	956.2	2490.4	4366.0	4565.7	4438.6	3279.8	3163.6
67.5°	517.0	514.3	536.3	608.7	640.3	1519.3	4134.3	5285.6	5226.1	3621.2	3395.1
69°	455.9	452.2	474.5	558.7	601.4	1004.4	3695.9	5449.1	5452.8	3801.4	3411.0
70°	410.3	412.8	435.0	529.0	588.2	788.3	3277.3	5407.4	5437.1	3868.8	3315.6
72.5°	274.0	280.7	325.3	439.2	565.6	596.6	1978.8	4640.2	4754.5	3717.1	2844.6
75°	154.5	159.5	212.5	331.2	533.0	568.1	1045.2	3418.6	3529.1	3108.3	2193.6
77.5°	75.8	78.5	120.2	213.7	445.7	541.3	592.8	2322.1	2448.3	2028.8	1240.7
80°	32.0	33.5	60.1	131.9	318.6	516.6	440.2	1429.1	1444.8	794.8	330.5
82.5°	12.4	12.8	25.3	82.3	202.4	402.7	368.2	677.6	661.3	149.7	75.4
85°	1.5	1.7	9.2	49.4	112.6	207.2	299.1	292.0	270.2	29.7	38.7
87.5°	0.0	0.0	0.6	15.1	33.5	97.1	155.5	121.2	109.3	9.6	20.1
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°	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1	1250.1
2.5°	1247.0	1244.9	1233.6	1217.3	1201.8	1182.5	1164.1	1153.0	1144.2	1138.3	1145.2
5°	1250.3	1241.1	1206.8	1162.8	1119.7	1071.1	1025.9	987.6	972.5	955.8	963.3
7.5°	1249.3	1231.9	1170.2	1091.9	1012.7	930.9	853.4	793.8	762.8	732.4	740.2
10°	1244.0	1214.7	1121.2	1005.2	886.7	769.1	659.2	575.7	529.0	486.7	492.8
12.5°	1232.5	1191.7	1063.4	906.0	747.5	592.4	463.7	356.7	299.3	274.0	277.2
15°	1225.6	1169.3	1002.3	805.5	598.9	412.6	283.4	210.8	184.6	176.3	177.3
17.5°	1222.3	1147.8	939.1	690.6	446.9	262.7	183.2	161.6	156.0	154.5	154.9
20°	1218.9	1126.0	874.0	576.9	307.9	176.7	150.5	144.2	142.1	140.3	140.7
22.5°	1213.3	1105.1	804.0	461.8	207.7	143.4	135.6	129.6	125.2	122.9	123.3
25°	1206.4	1083.1	732.7	343.9	151.6	127.9	120.6	112.0	106.8	102.6	102.8
27.5°	1195.3	1056.1	659.0	250.4	127.3	114.5	104.7	95.2	86.5	81.6	81.6
30°	1179.8	1025.5	577.1	179.2	114.1	101.3	89.4	77.7	68.2	63.8	63.4
32.5°	1162.6	993.7	494.4	135.9	103.6	89.0	75.4	63.0	54.6	51.1	50.9
35°	1148.0	959.4	412.0	113.9	93.2	77.0	62.2	51.7	45.0	42.1	41.9
37.5°	1138.5	925.0	331.6	101.7	83.7	65.9	52.1	42.7	37.9	35.6	35.4
40°	1137.1	899.5	258.1	92.5	74.9	56.1	43.5	36.2	31.8	29.3	29.1
42.5°	1156.1	884.8	198.0	84.8	65.9	47.5	37.1	31.0	26.4	23.9	23.7
45°	1206.2	889.4	152.4	77.9	56.9	40.2	31.4	25.7	21.6	19.7	19.3
47.5°	1297.4	921.3	121.2	71.0	48.4	34.1	26.8	21.4	17.8	15.9	15.7
50°	1459.9	996.0	101.3	63.4	40.4	29.1	22.2	17.4	14.4	12.8	12.6
52.5°	1675.5	1129.1	90.4	56.1	33.5	24.7	18.2	13.8	11.3	10.0	9.8
55°	1913.3	1290.3	83.3	48.1	27.4	20.5	14.4	10.9	8.8	7.7	7.3
57.5°	2145.4	1429.9	76.6	40.4	22.8	16.7	11.5	8.6	6.9	5.9	5.7
60°	2358.7	1558.2	68.9	32.4	18.6	13.2	9.0	6.7	5.4	4.4	4.4
62.5°	2587.1	1657.5	58.2	25.3	15.3	10.0	7.3	6.1	4.4	3.8	3.6
65°	2829.1	1731.2	45.6	19.7	11.9	7.5	6.1	6.3	3.6	2.7	2.5
67.5°	3007.9	1716.5	33.7	15.5	9.2	5.9	5.9	6.7	3.1	2.1	1.9
69°	2968.5	1597.4	28.3	13.4	8.0	5.0	5.4	6.7	2.9	1.9	1.7
70°	2854.4	1465.5	24.9	11.9	7.1	4.6	5.2	6.5	2.7	1.9	1.7
72.5°	2377.1	1103.8	19.5	9.0	5.7	3.8	4.4	5.7	2.7	1.9	1.5
75°	1788.1	706.5	14.9	6.5	4.2	2.9	3.3	4.2	2.7	1.7	1.5
77.5°	973.0	254.8	10.7	4.4	2.9	2.3	2.3	3.1	2.5	1.3	0.8
80°	250.1	64.1	6.7	2.9	2.3	1.7	1.5	2.1	1.5	0.2	0.0
82.5°	61.8	14.4	3.6	2.1	1.7	0.6	0.6	1.0	0.6	0.0	0.0
85°	33.9	7.1	2.3	1.5	0.8	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	17.4	2.1	0.6	0.4	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)