

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: P323946

Luminaire Tested: **GAN-SA2A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5688 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

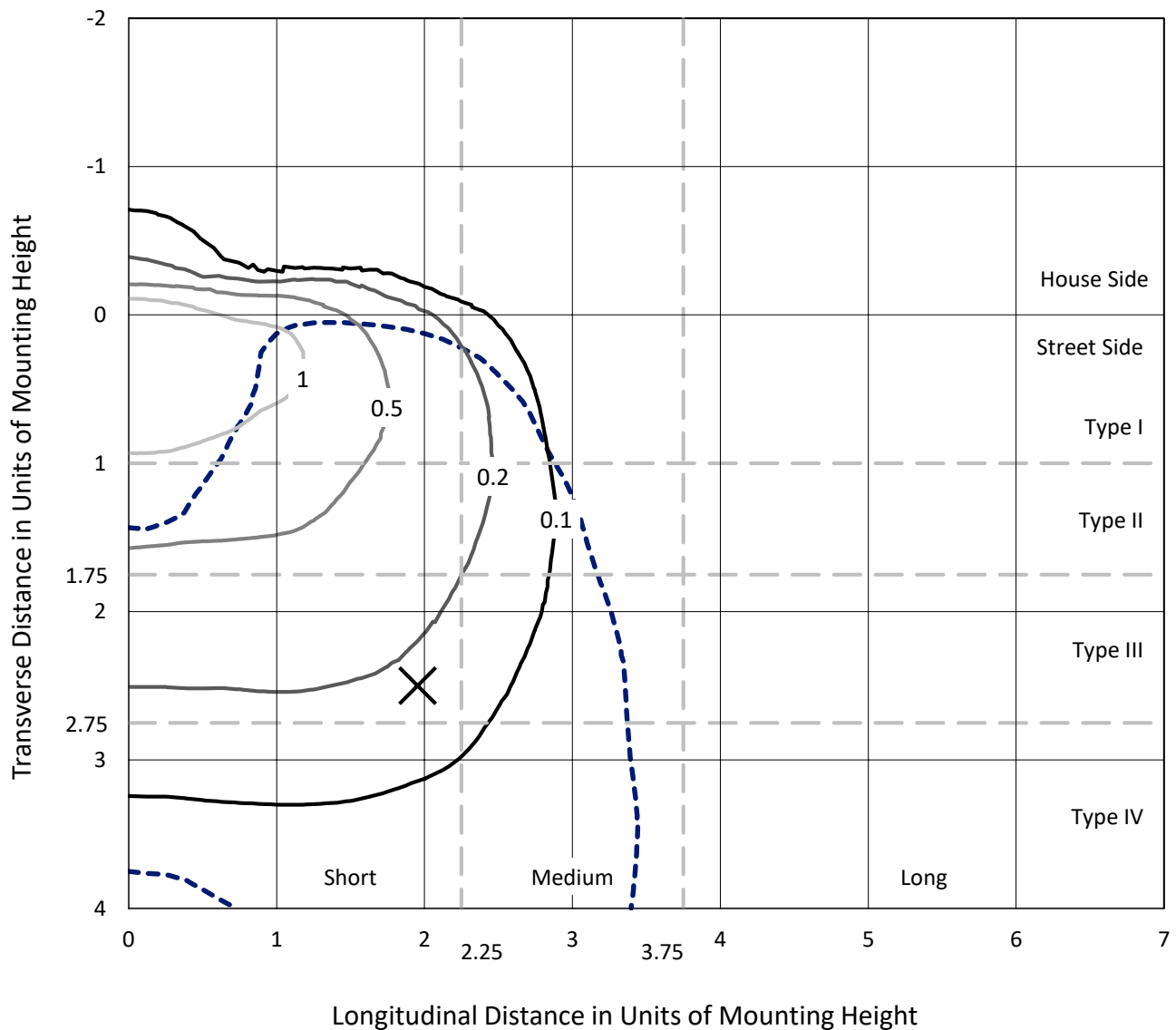
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

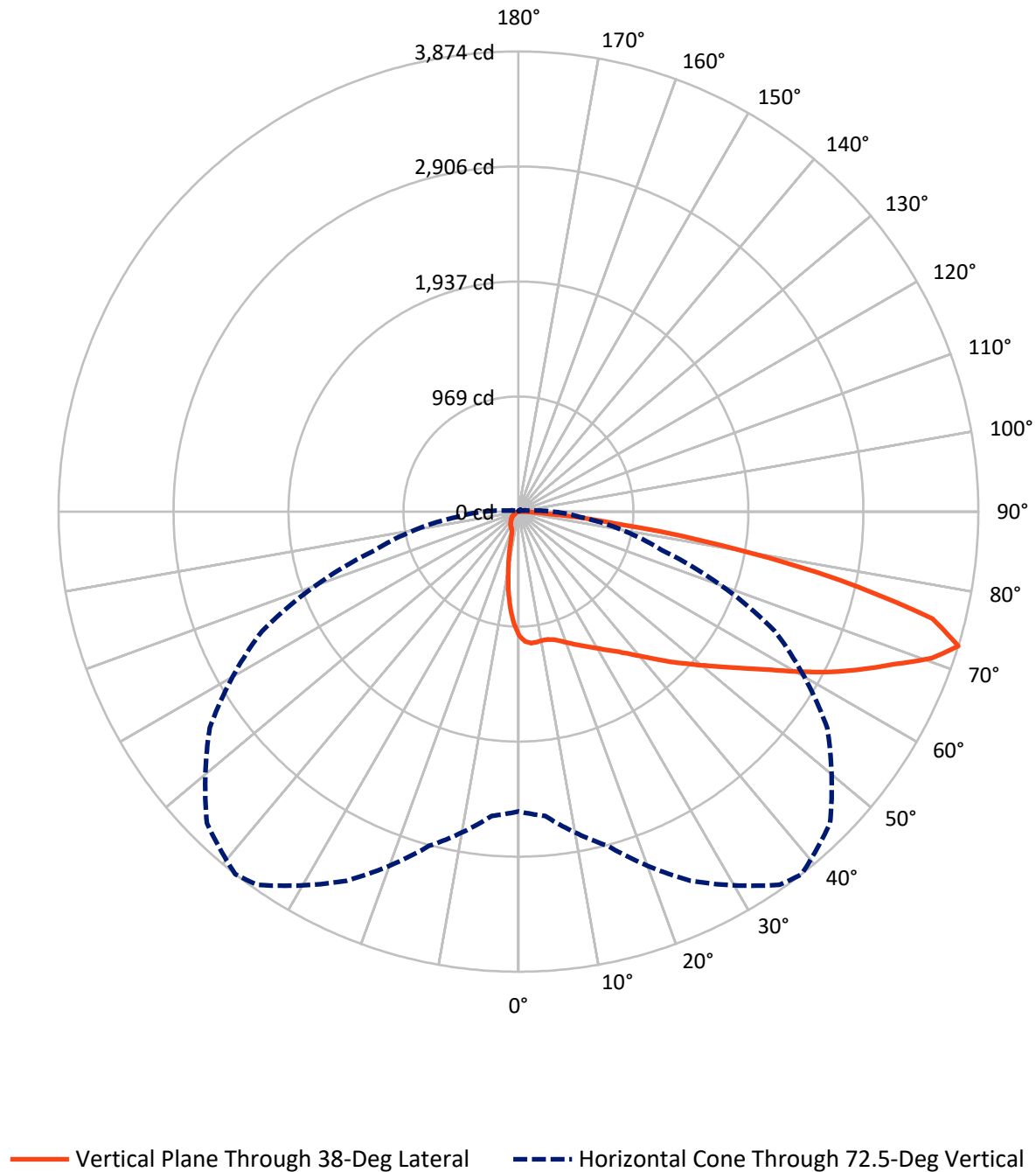
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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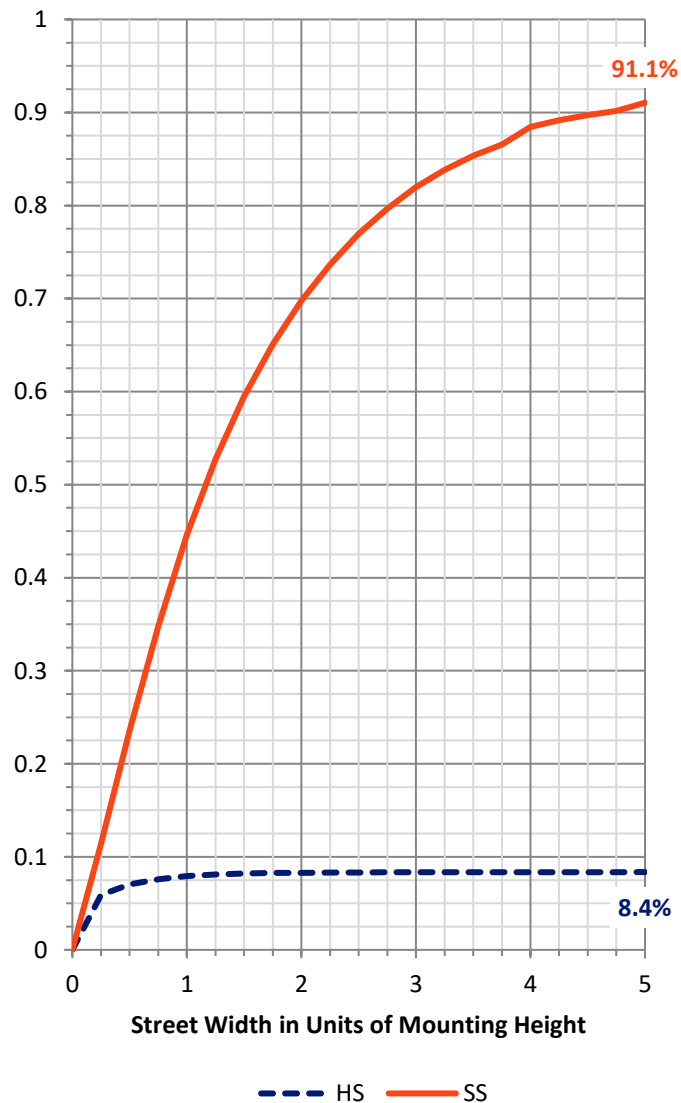
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.7	0.0	478.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5209.3	0.0	5209.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5688.0	0.0	5688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.6
10°-20°	218.0	3.8
20°-30°	346.7	6.1
30°-40°	521.2	9.2
40°-50°	795.1	14.0
50°-60°	1123.7	19.8
60°-70°	1409.6	24.8
70°-80°	1054.0	18.5
80°-90°	130.7	2.3
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°	5688.0	100.0
0°-180°	5688.0	100.0

Coefficient of Utilization



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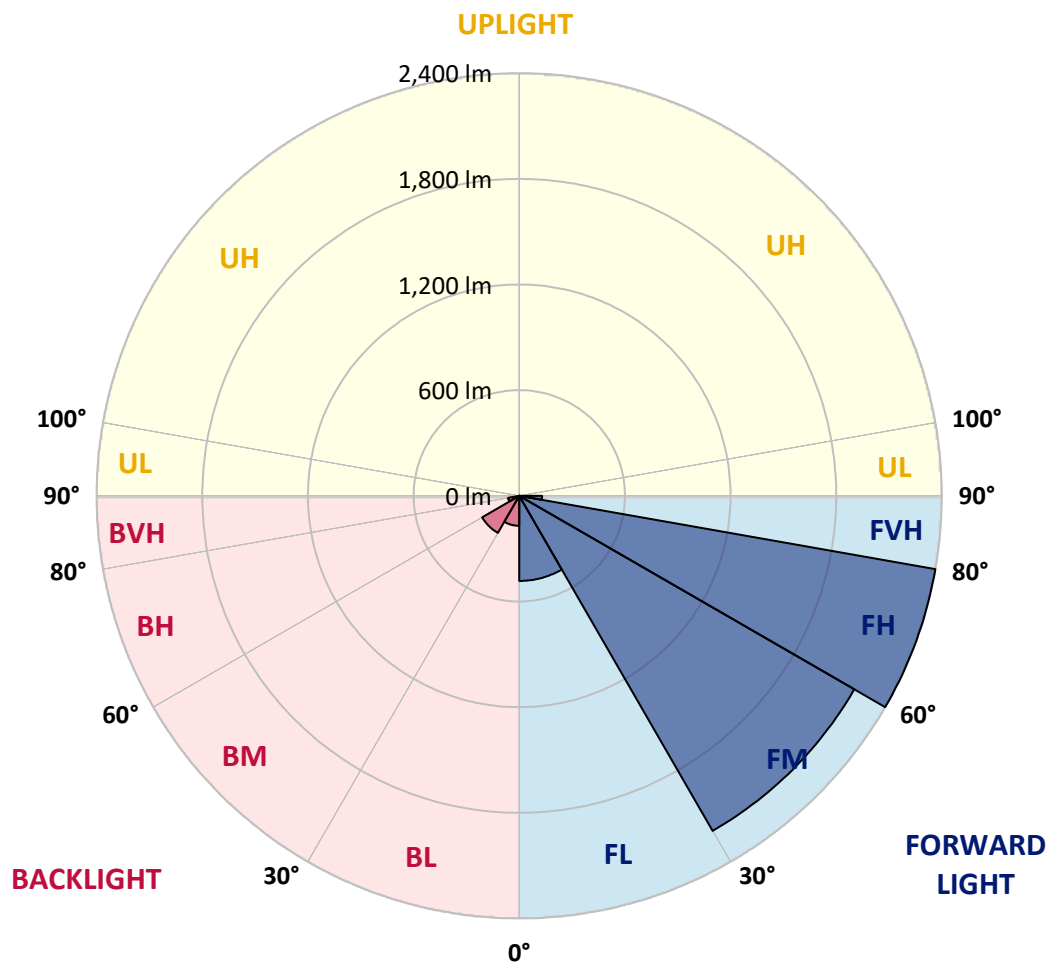
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.3	8.5			
FM	(30°-60°)	2197.0	38.6			
FH	(60°-80°)	2399.6	42.2			G2/5000
FVH	(80°-90°)	129.5	2.3			G2/225
BL	(0°-30°)	170.4	3.0	B1/500		
BM	(30°-60°)	243.1	4.3	B1/1000		
BH	(60°-80°)	63.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0
2.5°	1110.3	1110.5	1107.9	1103.6	1098.2	1095.4	1090.7	1083.1	1075.1	1060.7	1045.1
5°	1132.9	1132.9	1129.6	1124.0	1115.2	1112.6	1103.6	1091.6	1075.1	1051.7	1025.5
7.5°	1130.6	1131.0	1126.6	1120.7	1111.9	1109.5	1098.7	1085.2	1064.7	1036.3	1002.8
10°	1118.3	1119.5	1115.9	1113.1	1105.1	1102.5	1092.3	1078.8	1058.3	1028.1	989.5
12.5°	1105.8	1107.0	1108.1	1110.7	1105.8	1104.8	1096.8	1085.5	1065.8	1034.4	991.0
15°	1097.7	1100.1	1108.6	1118.8	1119.9	1119.0	1113.8	1103.2	1083.3	1050.7	1001.1
17.5°	1097.7	1101.5	1119.2	1138.6	1145.5	1146.2	1141.7	1126.8	1103.2	1068.2	1010.6
20°	1107.0	1112.1	1139.8	1167.2	1178.5	1178.5	1169.8	1149.0	1121.4	1084.0	1016.9
22.5°	1130.6	1137.4	1172.1	1203.8	1215.9	1213.3	1201.4	1171.2	1140.3	1102.0	1025.0
25°	1177.1	1182.3	1218.4	1250.3	1257.7	1251.8	1236.9	1198.1	1164.4	1126.3	1039.6
27.5°	1237.1	1237.8	1275.1	1302.1	1297.6	1293.6	1274.9	1231.9	1199.1	1161.0	1064.9
30°	1303.0	1303.0	1335.9	1356.4	1342.7	1339.4	1320.7	1272.8	1243.5	1208.3	1100.8
32.5°	1366.8	1369.6	1396.3	1409.3	1394.0	1390.7	1372.5	1324.5	1302.5	1280.3	1156.8
35°	1428.5	1430.6	1455.9	1462.9	1448.3	1449.2	1436.2	1395.6	1387.3	1384.5	1241.1
37.5°	1488.2	1488.7	1514.4	1518.9	1511.6	1519.6	1520.8	1484.9	1500.3	1523.2	1359.9
40°	1542.8	1543.3	1568.8	1580.3	1592.9	1603.3	1612.5	1593.3	1644.1	1697.3	1501.4
42.5°	1586.5	1591.4	1623.8	1645.8	1678.9	1698.7	1723.7	1722.8	1815.4	1895.2	1672.5
45°	1625.0	1633.5	1678.6	1717.1	1773.8	1805.5	1844.7	1875.4	2008.1	2115.6	1845.6
47.5°	1675.8	1683.8	1735.3	1798.4	1874.0	1915.5	1980.5	2046.9	2220.0	2332.0	2014.8
50°	1747.4	1743.8	1794.6	1885.1	1982.2	2036.7	2129.3	2228.8	2430.3	2520.5	2114.2
52.5°	1823.7	1822.2	1859.8	1979.3	2109.7	2173.5	2295.9	2416.8	2631.3	2650.4	2159.8
55°	1918.1	1908.0	1939.6	2086.8	2261.1	2329.7	2473.7	2603.0	2791.5	2723.7	2182.7
57.5°	2017.1	2000.4	2030.6	2206.6	2431.9	2513.0	2670.8	2784.4	2898.0	2773.8	2182.5
60°	2119.4	2099.6	2135.5	2356.3	2644.1	2737.8	2884.3	2907.0	2997.5	2799.0	2166.4
62.5°	2204.9	2193.1	2246.5	2516.5	2881.0	2973.1	3045.6	3018.5	3081.3	2818.6	2128.9
65°	2295.4	2296.1	2382.3	2703.4	3132.8	3194.9	3201.1	3163.1	3151.5	2814.6	2001.8
67.5°	2417.8	2429.1	2573.0	2957.1	3377.8	3425.7	3425.3	3319.7	3202.7	2654.9	1720.0
70°	2547.2	2573.9	2792.7	3247.4	3645.2	3693.9	3668.8	3419.4	3015.6	2146.8	1217.3
72.5°	2525.5	2571.8	2914.8	3430.5	3837.2	3874.3	3711.6	3174.4	2383.5	1247.7	518.3
75°	1948.4	2002.0	2672.7	3249.0	3635.7	3602.4	3189.0	2470.2	1302.5	348.2	116.7
77.5°	1029.2	1057.8	1765.5	2475.2	2834.9	2765.3	2246.5	1370.3	397.1	86.2	52.4
80°	539.1	545.7	769.4	1404.4	1749.7	1750.2	1331.4	601.9	163.7	44.2	35.2
82.5°	288.7	294.3	406.5	648.9	916.8	831.0	509.8	331.2	95.2	25.0	33.8
85°	69.5	70.6	230.6	296.5	360.5	257.5	151.4	278.0	25.7	14.6	27.4
87.5°	26.7	27.2	85.5	128.3	91.9	59.5	70.9	103.7	3.3	5.7	4.3
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°	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0
2.5°	1035.6	1029.5	1014.4	995.2	978.2	965.9	947.5	935.5	927.4	927.2	924.1
5°	1009.4	996.9	964.3	925.5	890.3	858.7	821.4	791.8	769.9	766.3	758.8
7.5°	981.3	960.7	910.6	850.2	791.1	731.1	661.4	618.2	581.1	563.4	561.5
10°	964.0	935.2	864.1	776.7	684.1	586.5	495.4	432.3	386.7	373.7	364.0
12.5°	960.5	922.5	828.2	707.7	575.4	446.5	345.6	278.5	242.1	230.6	227.5
15°	964.0	916.6	798.0	639.5	465.4	316.8	232.0	193.0	179.3	176.0	175.8
17.5°	966.2	909.5	763.7	563.6	358.6	226.3	177.6	166.3	164.2	163.9	164.4
20°	965.9	898.6	722.8	479.1	266.7	177.9	160.6	158.3	157.8	158.0	157.8
22.5°	964.3	885.8	678.0	391.9	201.5	159.0	153.3	151.9	151.7	151.7	151.7
25°	967.3	875.7	628.6	308.5	166.1	150.2	146.7	145.5	145.3	145.3	144.8
27.5°	978.4	870.0	574.5	237.4	150.0	142.4	139.6	139.4	138.7	138.4	138.9
30°	996.4	870.0	515.2	184.7	140.3	134.4	132.3	131.8	131.6	131.3	131.6
32.5°	1028.1	876.6	450.5	153.5	131.1	125.4	124.0	124.7	124.0	124.0	124.0
35°	1085.2	896.5	382.7	133.9	121.4	116.7	115.3	116.2	115.8	115.8	115.5
37.5°	1168.6	933.3	314.4	122.1	112.9	108.0	106.1	107.5	107.0	107.0	106.8
40°	1270.2	986.9	249.5	113.2	104.6	99.5	97.8	98.5	97.3	97.3	97.8
42.5°	1395.6	1055.0	192.8	104.4	96.4	91.4	90.5	89.8	87.6	86.5	86.7
45°	1535.0	1125.8	150.2	95.9	88.6	84.6	83.2	81.3	77.7	75.4	75.6
47.5°	1659.5	1180.4	122.1	87.6	81.5	78.4	76.3	72.8	67.6	64.7	65.0
50°	1724.9	1188.7	103.9	79.4	74.9	71.8	68.7	63.3	57.2	54.1	53.9
52.5°	1741.7	1149.9	90.5	71.8	68.3	64.7	60.7	53.4	46.5	43.2	42.8
55°	1747.8	1090.9	78.4	64.7	61.2	57.2	52.0	43.7	37.3	34.0	33.8
57.5°	1727.5	1002.8	69.0	58.3	54.1	49.1	42.8	35.0	28.8	26.2	26.2
60°	1682.4	883.5	61.7	51.5	46.8	41.1	34.5	27.2	21.5	19.4	19.4
62.5°	1592.4	729.0	54.8	44.4	39.9	34.0	27.9	20.6	15.1	13.9	14.2
65°	1422.5	553.0	48.0	38.0	34.0	28.1	21.7	14.6	10.2	10.2	10.6
67.5°	1160.1	384.1	40.9	32.4	29.3	22.9	16.5	10.2	7.1	8.0	9.0
70°	768.0	215.4	35.0	26.7	25.0	18.2	12.3	6.9	5.7	7.6	9.2
72.5°	289.8	83.9	29.3	21.5	21.7	13.9	8.7	5.2	5.2	8.3	10.9
75°	80.8	41.1	21.0	15.8	17.0	10.2	6.4	4.5	5.0	9.4	12.8
77.5°	47.5	30.2	13.7	9.2	11.6	7.1	4.3	3.5	4.3	8.0	12.3
80°	38.3	16.1	8.0	4.7	6.4	4.0	2.8	2.1	1.2	3.1	6.4
82.5°	38.3	9.7	3.8	3.3	3.3	2.1	1.4	0.9	0.2	0.0	1.7
85°	25.7	4.0	2.4	2.1	1.7	0.7	0.5	0.2	0.0	0.0	0.0
87.5°	4.3	1.7	0.9	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)