

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: P192909

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
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: 28.75 FT

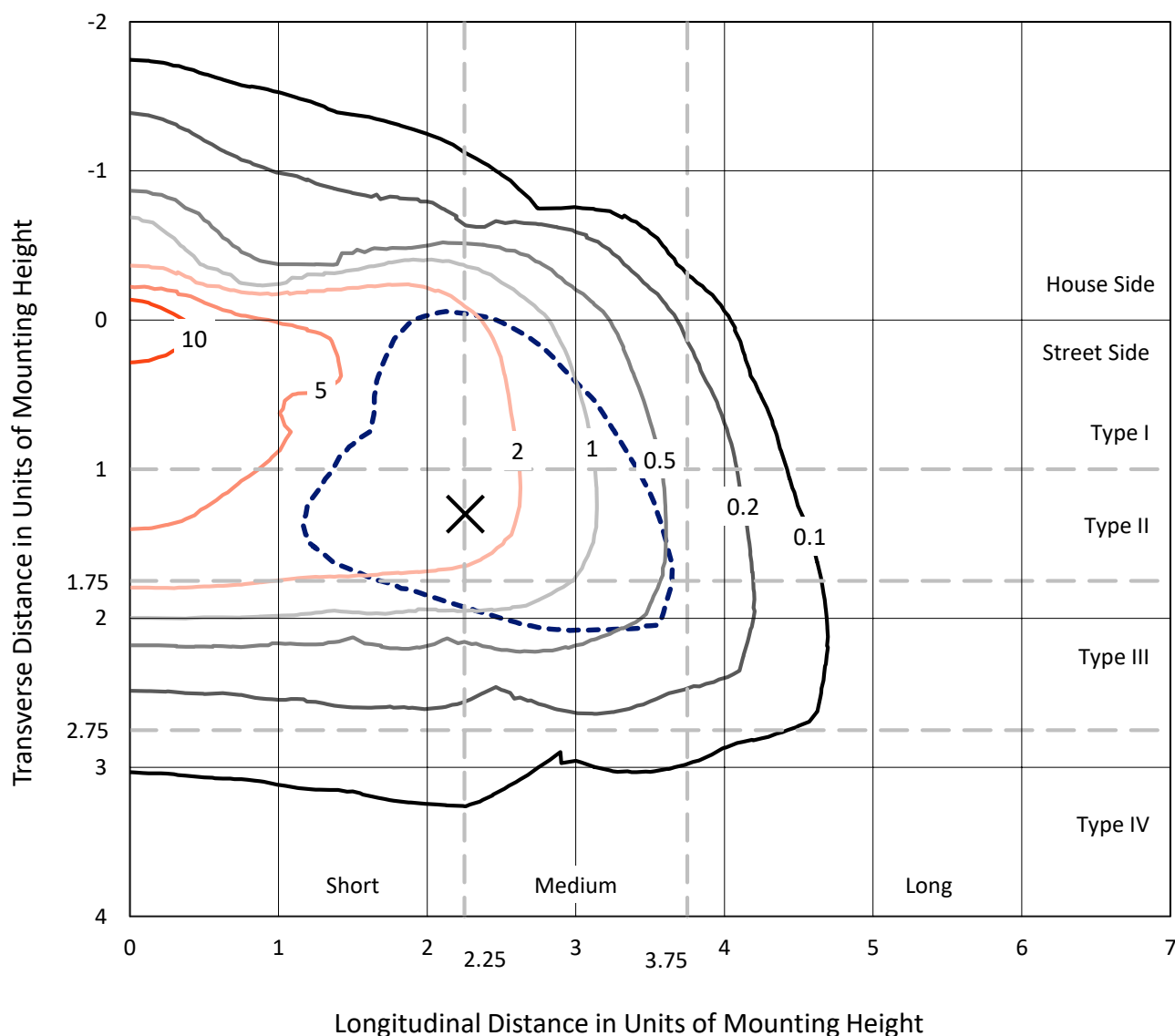


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

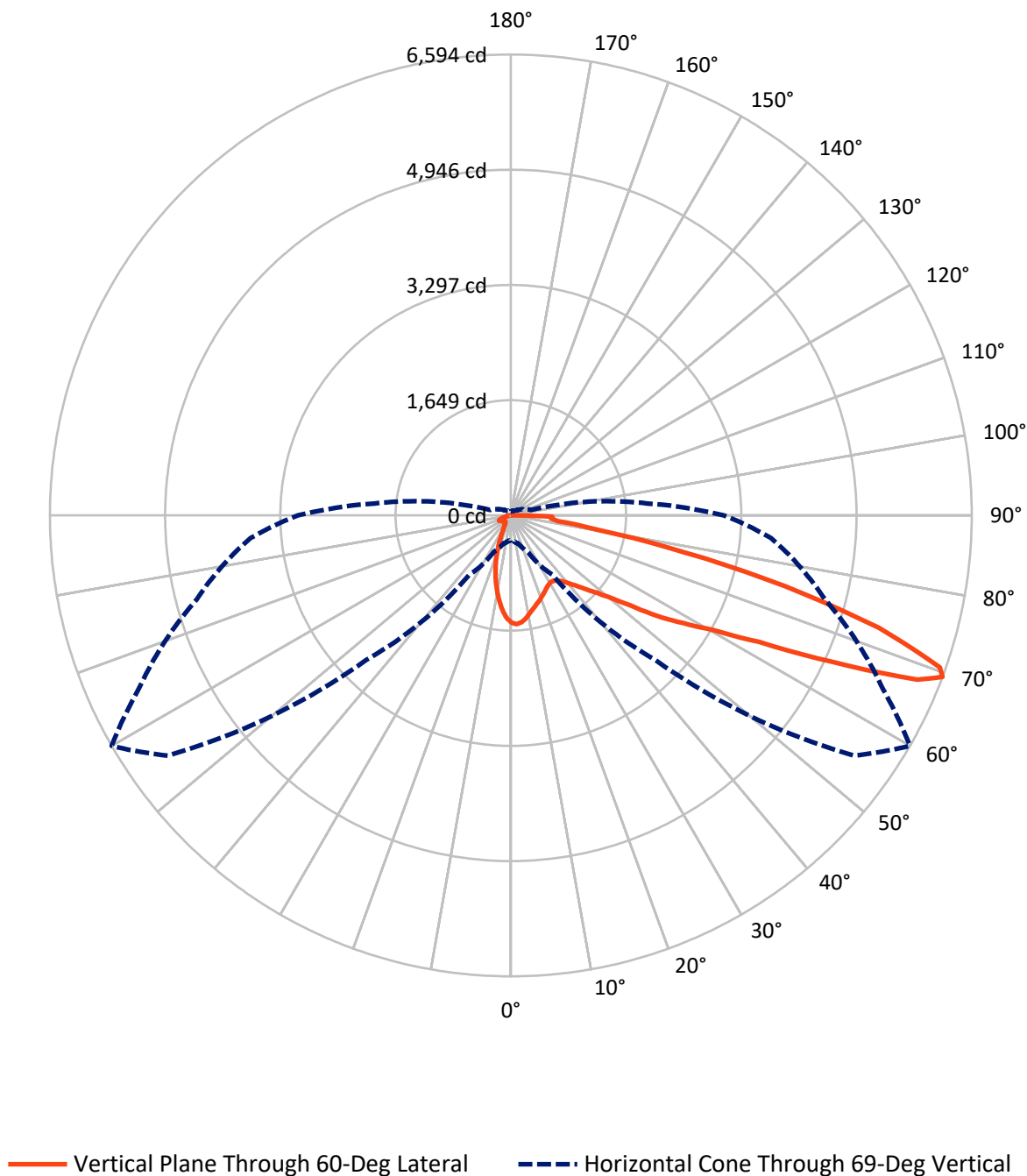


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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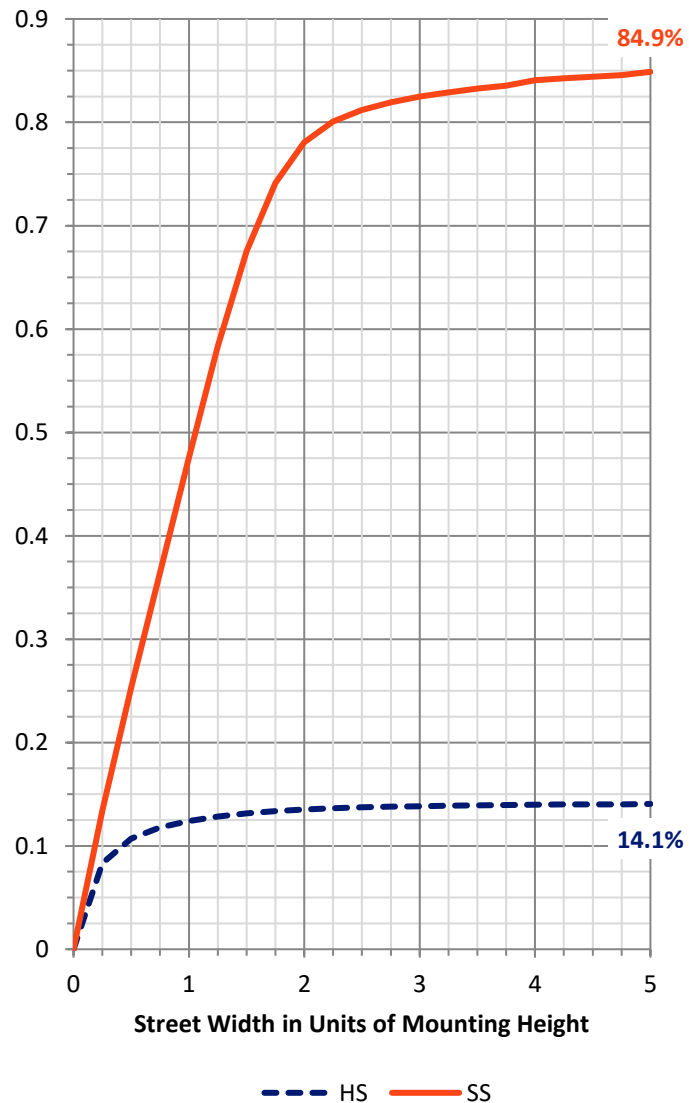
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.6	0.0	857.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5170.3	0.0	5170.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	6027.8	0.0	6027.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	2.2
10°-20°	276.7	4.6
20°-30°	352.6	5.8
30°-40°	484.7	8.0
40°-50°	786.4	13.0
50°-60°	1261.3	20.9
60°-70°	1678.7	27.8
70°-80°	906.4	15.0
80°-90°	151.2	2.5
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°	6027.8	100.0
0°-180°	6027.8	100.0

Coefficient of Utilization



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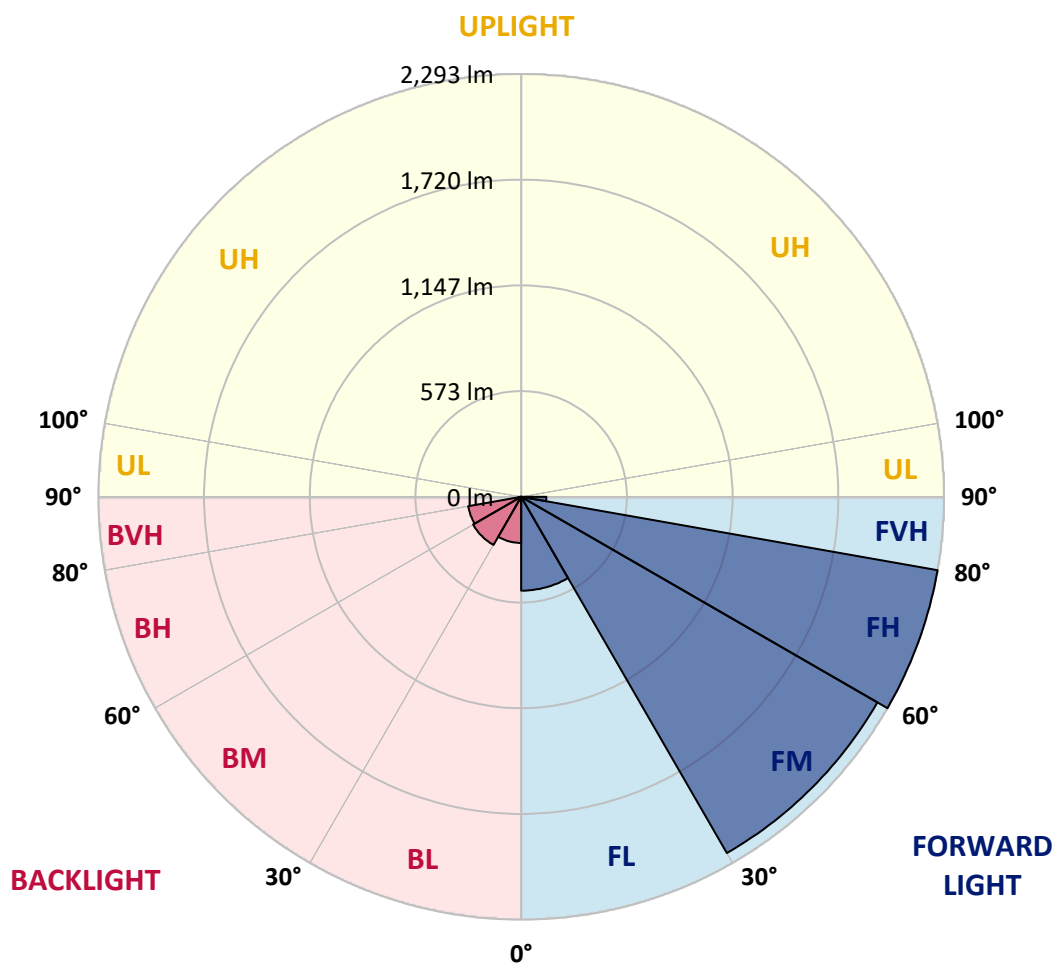
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.0	8.4			
FM	(30°-60°)	2231.1	37.0			
FH	(60°-80°)	2293.5	38.0			G2/5000
FVH	(80°-90°)	136.7	2.3			G2/225
BL	(0°-30°)	250.2	4.2	B1/500		
BM	(30°-60°)	301.3	5.0	B1/1000		
BH	(60°-80°)	291.5	4.8	B1/500		G1/500
BVH	(80°-90°)	14.6	0.2			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°	60°	65°	75°	85°
0°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1567.5	1570.9	1569.5	1568.6	1571.2	1567.1	1558.7	1556.1	1552.0	1542.4	1526.2
5°	1508.7	1519.1	1518.4	1526.4	1539.5	1543.0	1539.1	1539.8	1532.3	1520.3	1493.1
7.5°	1407.0	1411.4	1413.7	1430.9	1454.8	1473.9	1490.3	1495.5	1492.1	1481.8	1446.9
10°	1302.2	1305.6	1311.2	1331.4	1361.6	1388.0	1419.0	1436.6	1444.3	1442.5	1403.6
12.5°	1212.2	1215.7	1222.9	1245.7	1281.8	1314.4	1359.1	1381.4	1399.4	1410.2	1368.3
15°	1131.5	1139.1	1146.1	1172.4	1212.8	1255.6	1306.2	1334.2	1362.1	1386.3	1337.2
17.5°	1068.7	1076.2	1080.2	1104.2	1147.2	1199.6	1259.1	1292.0	1327.0	1366.5	1306.2
20°	1032.3	1035.8	1034.0	1047.4	1086.1	1141.8	1212.2	1250.4	1292.5	1347.9	1275.4
22.5°	1022.0	1022.3	1015.9	1014.5	1039.5	1086.4	1162.1	1208.4	1260.2	1335.7	1248.9
25°	1046.8	1045.9	1028.4	1014.2	1016.7	1044.2	1113.8	1167.7	1233.1	1333.1	1228.5
27.5°	1101.9	1104.5	1078.5	1051.7	1025.3	1024.5	1077.1	1133.9	1211.0	1345.0	1219.8
30°	1179.0	1183.4	1155.8	1121.6	1071.9	1030.8	1062.8	1113.8	1197.4	1369.7	1218.4
32.5°	1263.5	1268.1	1247.0	1211.3	1146.1	1070.4	1072.7	1115.5	1196.7	1404.4	1228.2
35°	1353.4	1358.6	1347.9	1317.5	1245.1	1143.5	1110.6	1143.7	1215.7	1457.4	1254.8
37.5°	1453.9	1462.0	1464.9	1436.1	1358.6	1239.9	1172.6	1197.4	1258.4	1531.0	1303.4
40°	1598.6	1609.9	1609.1	1567.8	1488.7	1370.0	1268.4	1274.8	1325.2	1629.5	1381.0
42.5°	1875.8	1878.1	1805.6	1715.6	1632.2	1506.9	1381.4	1376.1	1417.2	1754.0	1495.5
45°	2228.5	2218.8	2057.5	1883.6	1781.7	1664.1	1528.4	1502.8	1533.9	1906.0	1638.8
47.5°	2521.0	2498.9	2295.1	2055.1	1940.1	1835.0	1701.0	1656.3	1673.5	2078.4	1824.0
50°	2622.7	2606.1	2437.1	2197.9	2090.1	2043.4	1913.6	1850.2	1854.7	2284.1	2040.9
52.5°	2600.8	2598.5	2485.8	2291.9	2230.4	2262.4	2214.6	2128.8	2083.3	2512.3	2275.0
55°	2549.3	2554.3	2513.5	2401.4	2390.9	2473.8	2608.1	2544.6	2403.3	2742.6	2517.0
57.5°	2370.3	2383.1	2472.7	2539.0	2649.2	2772.7	2924.9	2906.9	2747.9	2991.6	2804.6
60°	1909.6	1939.3	2179.8	2512.3	2915.0	3301.2	3369.2	3327.4	3103.1	3300.5	3184.7
62.5°	1338.0	1368.8	1654.7	2175.2	2871.4	3898.1	4163.7	3982.8	3613.3	3755.7	3676.5
65°	716.3	731.2	949.6	1509.2	2424.1	4021.2	5324.5	5049.4	4420.9	4316.8	4097.2
67.5°	395.1	403.2	486.9	762.0	1552.6	3541.1	6064.1	6272.0	5430.5	4690.4	4020.6
69°	357.3	364.8	419.5	577.1	1038.9	2927.8	5991.9	6594.4	5873.1	4653.4	3737.6
70°	349.4	356.4	405.6	532.0	841.0	2413.3	5750.0	6512.0	5978.5	4520.9	3490.8
72.5°	314.4	322.1	369.9	477.8	718.6	1203.2	4554.7	5505.9	5427.9	3919.9	2647.7
75°	293.3	300.3	381.2	467.9	688.2	761.4	3002.7	4057.9	3990.0	2742.1	1427.7
77.5°	125.5	124.9	176.8	395.9	698.2	737.3	1613.4	2535.1	2312.9	1172.1	409.9
80°	83.9	82.4	83.9	116.5	640.3	741.4	845.3	1286.7	972.0	298.8	202.1
82.5°	72.2	71.0	73.6	71.0	225.1	846.2	718.6	684.3	462.0	169.8	100.2
85°	48.6	46.6	63.5	63.8	106.3	751.8	809.5	578.0	373.8	100.7	49.5
87.5°	23.3	22.7	36.9	45.2	62.3	305.5	908.2	592.3	377.1	51.6	23.6
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°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1521.1	1509.2	1497.5	1483.5	1469.0	1452.7	1444.5	1436.4	1434.3	1432.1	1423.8
5°	1479.2	1462.3	1433.2	1401.1	1367.4	1334.5	1309.5	1293.7	1281.8	1275.7	1264.9
7.5°	1425.1	1400.2	1349.4	1293.9	1237.3	1185.4	1140.5	1112.4	1085.5	1073.0	1058.7
10°	1373.5	1336.6	1257.3	1175.7	1094.2	1015.9	942.3	890.1	843.8	818.0	799.6
12.5°	1329.2	1278.6	1168.8	1058.4	946.6	835.1	724.7	638.0	565.5	527.2	507.8
15°	1286.2	1225.1	1084.6	944.5	801.1	649.3	504.3	405.9	346.0	322.1	313.9
17.5°	1247.0	1168.8	1000.2	829.9	650.7	467.3	338.9	284.7	261.7	253.9	251.3
20°	1204.9	1112.0	912.6	709.8	494.2	326.6	264.7	240.8	231.5	229.1	228.1
22.5°	1164.1	1056.1	828.7	581.5	355.0	252.2	227.4	217.5	216.0	218.1	218.1
25°	1129.5	1006.1	738.1	447.3	260.6	212.3	203.5	201.2	206.7	214.2	215.8
27.5°	1103.6	965.0	641.8	330.2	207.6	184.6	184.3	188.2	201.8	216.4	219.3
30°	1085.8	926.0	538.6	238.1	174.2	162.5	167.1	175.3	195.3	216.0	221.6
32.5°	1076.8	897.1	431.2	184.3	149.1	142.7	150.6	160.4	180.3	199.5	206.7
35°	1083.8	875.8	330.0	153.7	131.6	126.6	134.8	144.4	156.0	164.2	169.8
37.5°	1110.0	867.4	249.0	137.7	119.6	115.0	121.4	127.0	131.6	134.0	136.6
40°	1166.5	876.5	199.5	129.6	113.0	107.2	109.8	111.8	114.7	117.0	118.2
42.5°	1249.7	903.6	178.7	126.4	109.5	101.1	100.4	101.3	105.1	109.5	110.4
45°	1366.2	951.3	177.3	128.4	107.7	96.0	93.4	94.6	100.4	107.2	108.2
47.5°	1515.0	1024.1	189.0	134.5	109.2	93.4	89.1	90.5	97.8	106.8	108.2
50°	1695.2	1125.7	208.4	143.5	115.6	94.1	87.6	88.5	96.0	106.0	107.4
52.5°	1908.1	1269.8	229.8	152.3	122.3	97.8	88.8	86.8	93.8	102.4	104.3
55°	2144.9	1454.8	251.7	160.2	125.7	102.4	91.1	84.4	89.4	96.7	98.2
57.5°	2435.5	1713.3	289.4	167.7	128.2	105.7	93.4	82.2	83.9	89.1	90.2
60°	2828.8	2078.9	356.0	180.3	133.4	106.8	93.2	80.1	78.3	81.3	81.8
62.5°	3300.2	2476.3	411.7	196.0	142.1	107.7	91.4	78.6	73.6	73.6	74.3
65°	3580.1	2582.5	380.9	209.1	149.3	106.8	89.4	77.1	70.2	66.9	67.3
67.5°	3342.8	2271.2	326.4	211.6	149.1	102.8	86.2	74.6	66.6	61.7	61.4
69°	3045.5	1959.7	302.0	204.8	142.1	97.6	82.2	71.7	64.0	58.8	58.6
70°	2805.8	1769.6	285.9	197.1	134.5	93.8	78.8	69.1	62.1	57.1	56.5
72.5°	2040.0	1159.5	244.3	169.5	110.9	78.6	68.2	60.5	55.2	52.5	51.8
75°	1019.4	553.0	198.3	137.4	85.0	63.0	55.9	50.7	48.1	47.4	47.2
77.5°	334.9	253.4	141.8	102.4	63.2	49.1	45.2	41.3	40.8	42.5	41.9
80°	184.0	147.4	90.0	67.8	43.0	36.0	35.5	33.5	34.3	37.2	36.7
82.5°	93.8	76.6	55.6	40.8	29.2	25.9	28.3	27.1	28.3	30.8	30.6
85°	46.3	41.9	35.2	24.8	19.2	16.6	20.1	21.0	21.6	23.6	23.6
87.5°	26.8	24.8	18.7	11.7	9.7	8.7	11.7	11.4	13.4	14.5	14.3
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)