

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: P192869

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5149.4 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - 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

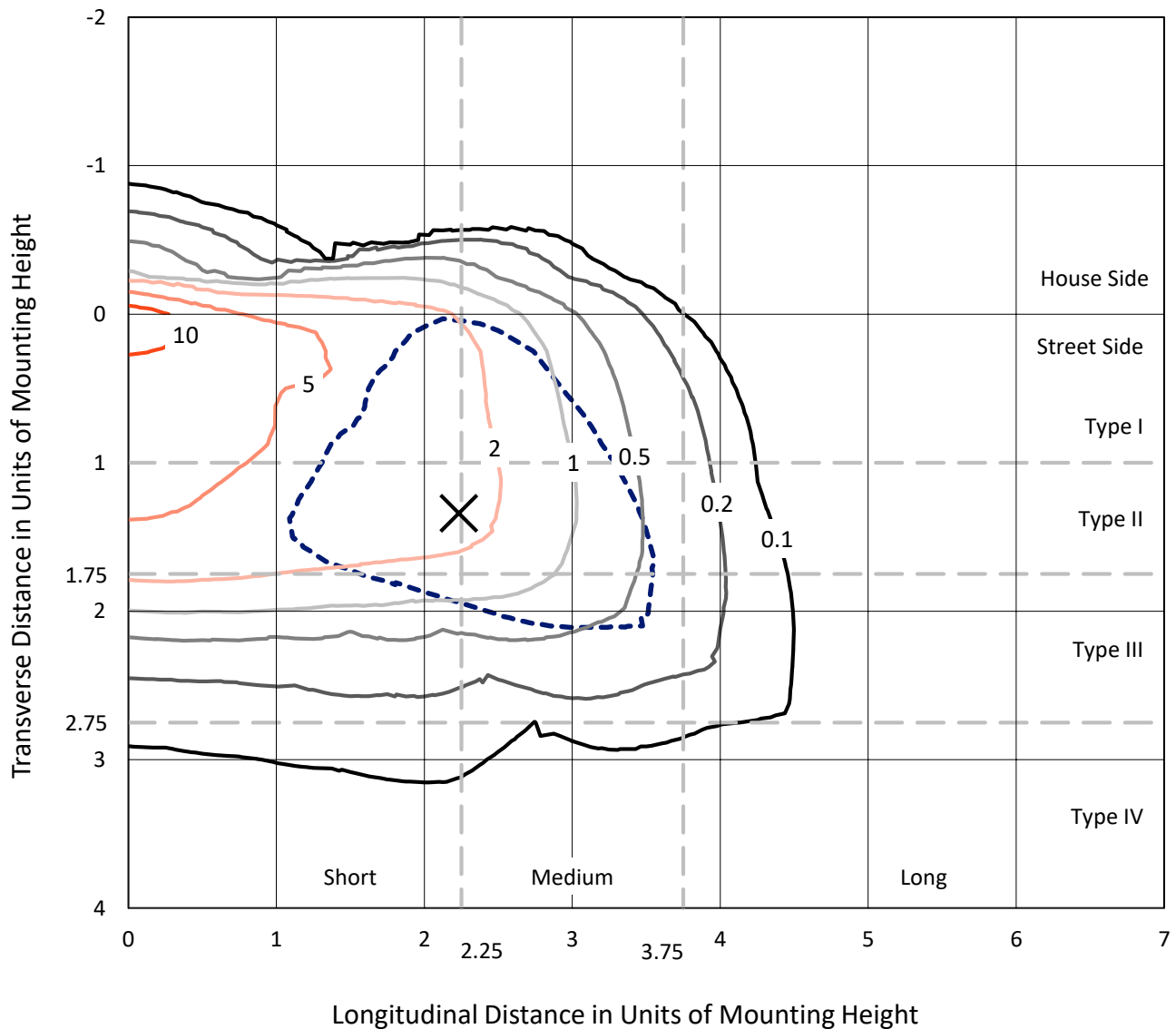


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

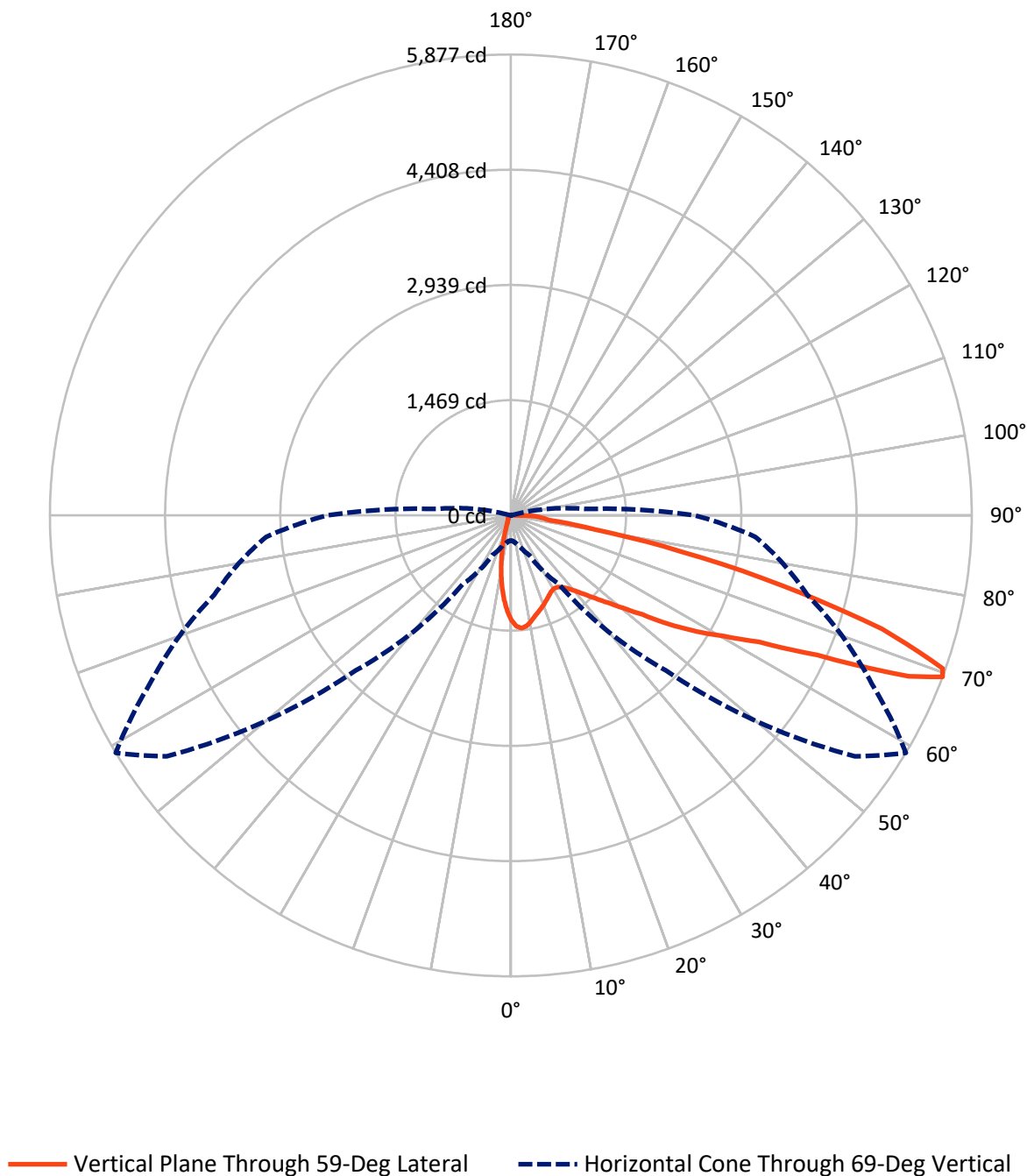


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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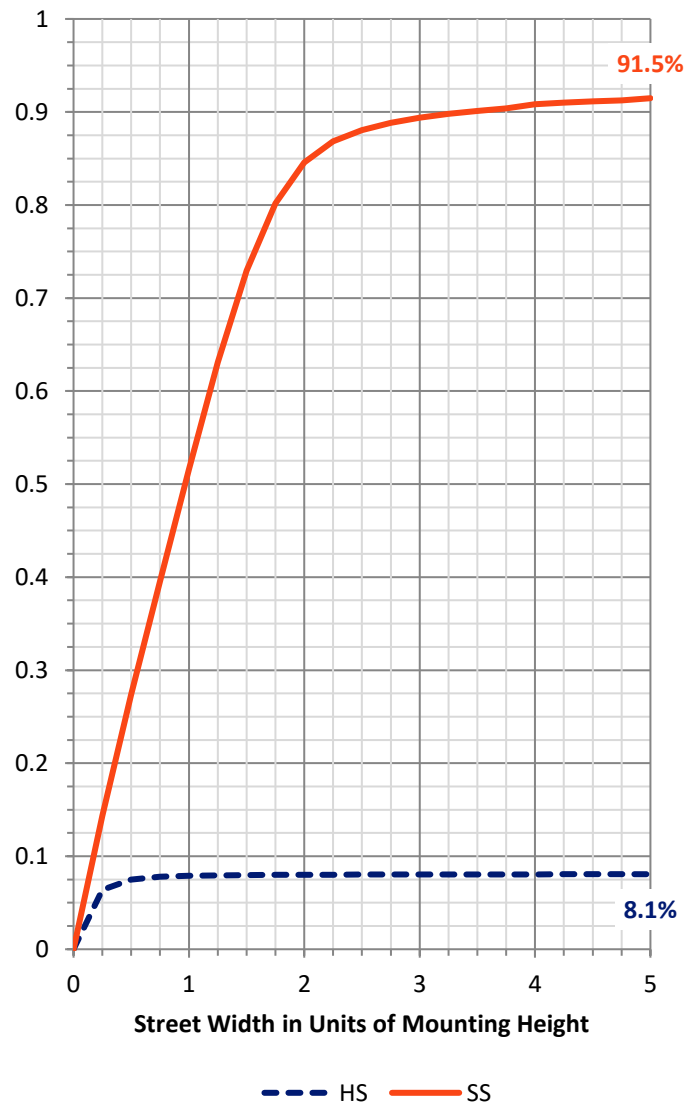
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.4	0.0	419.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	4730.0	0.0	4730.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	5149.4	0.0	5149.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	2.1
10°-20°	224.8	4.4
20°-30°	302.5	5.9
30°-40°	439.2	8.5
40°-50°	731.3	14.2
50°-60°	1140.8	22.2
60°-70°	1411.7	27.4
70°-80°	715.4	13.9
80°-90°	74.9	1.5
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°	5149.4	100.0
0°-180°	5149.4	100.0

Coefficient of Utilization



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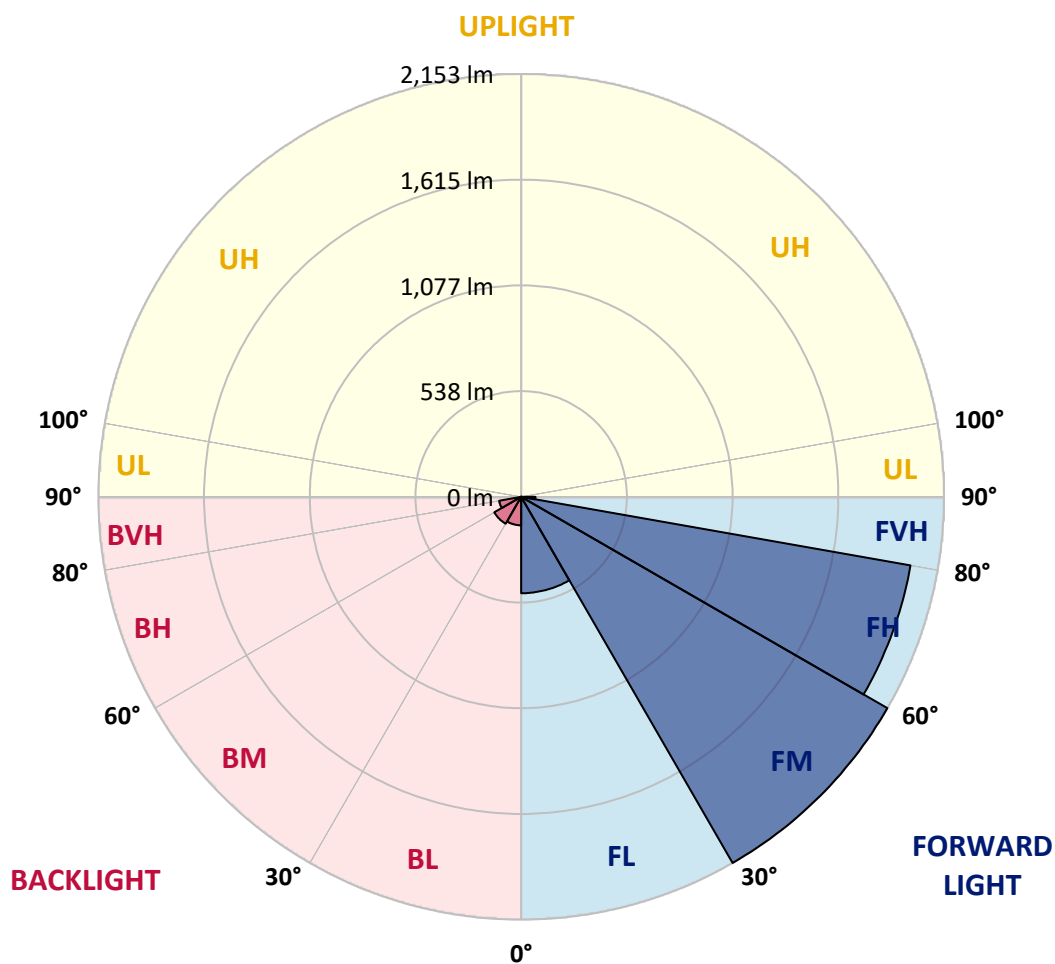
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.9	9.5			
FM	(30°-60°)	2153.3	41.8			
FH	(60°-80°)	2013.2	39.1			G2/5000
FVH	(80°-90°)	72.6	1.4			G1/100
BL	(0°-30°)	145.2	2.8	B1/500		
BM	(30°-60°)	158.0	3.1	B0/220		
BH	(60°-80°)	113.9	2.2	B1/500		G1/500
BVH	(80°-90°)	2.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1469.0	1468.5	1462.0	1459.1	1453.9	1442.8	1425.7	1416.6	1402.1	1376.6	1342.7
5°	1455.7	1462.7	1466.4	1466.7	1470.5	1466.4	1451.0	1443.5	1423.3	1382.5	1321.4
7.5°	1364.7	1367.4	1378.2	1387.5	1405.5	1422.8	1428.2	1425.1	1413.2	1369.4	1288.1
10°	1267.5	1270.1	1282.9	1295.2	1319.7	1346.2	1374.1	1380.0	1384.9	1350.8	1256.2
12.5°	1183.6	1186.2	1199.3	1215.4	1243.9	1276.5	1320.0	1329.5	1351.4	1333.1	1230.6
15°	1111.5	1112.6	1125.4	1145.2	1179.4	1221.2	1270.4	1285.9	1319.3	1320.5	1208.1
17.5°	1050.0	1052.9	1060.8	1079.7	1116.9	1168.8	1226.2	1248.3	1287.6	1310.0	1186.2
20°	1012.4	1015.3	1015.0	1025.5	1059.0	1114.3	1181.8	1208.4	1256.2	1299.3	1166.8
22.5°	1005.1	1005.1	997.6	996.1	1015.9	1062.2	1135.9	1168.2	1228.0	1294.6	1153.1
25°	1031.1	1029.9	1010.9	995.6	996.5	1024.1	1091.4	1129.7	1204.0	1297.8	1145.8
27.5°	1085.8	1084.4	1060.5	1031.1	1007.5	1007.2	1057.6	1098.9	1185.1	1313.0	1148.8
30°	1161.5	1161.0	1134.9	1098.0	1055.2	1015.9	1045.9	1083.6	1172.9	1340.3	1155.4
32.5°	1244.3	1243.4	1223.8	1184.8	1130.7	1055.2	1058.1	1089.7	1176.4	1376.6	1171.7
35°	1331.9	1330.4	1321.9	1287.9	1228.2	1127.8	1098.4	1122.7	1198.5	1431.2	1203.7
37.5°	1426.8	1428.2	1434.3	1401.8	1339.2	1229.3	1165.6	1182.1	1243.1	1505.1	1255.8
40°	1566.9	1566.6	1568.6	1525.8	1465.5	1353.7	1259.6	1264.9	1317.5	1603.3	1335.0
42.5°	1821.1	1803.4	1749.5	1662.1	1601.5	1495.8	1378.2	1372.7	1408.8	1724.6	1446.0
45°	2162.6	2124.8	1985.0	1817.5	1740.1	1656.0	1524.0	1506.2	1529.3	1870.5	1582.8
47.5°	2456.3	2417.2	2219.4	1979.4	1887.1	1807.9	1694.9	1662.9	1670.5	2033.9	1756.5
50°	2556.3	2537.1	2364.4	2120.4	2029.5	1999.2	1893.3	1854.2	1843.5	2222.9	1957.6
52.5°	2521.6	2520.2	2405.2	2211.9	2159.9	2197.3	2142.8	2097.7	2058.1	2422.1	2162.3
55°	2466.0	2473.3	2421.7	2291.9	2290.2	2378.1	2484.1	2446.6	2331.8	2638.4	2338.8
57.5°	2312.6	2343.7	2412.5	2443.4	2514.9	2605.0	2768.3	2790.4	2654.7	2804.1	2485.2
60°	1876.4	1944.9	2169.6	2465.1	2804.6	3028.8	3111.2	3130.2	2919.7	2941.8	2683.0
62.5°	1331.9	1401.8	1686.9	2186.9	2809.0	3585.9	3622.3	3548.0	3211.4	3145.9	3024.0
65°	707.0	760.9	993.8	1578.5	2435.5	3715.3	4515.9	4294.7	3726.3	3547.4	3464.5
67.5°	361.6	377.9	470.6	772.5	1674.3	3299.9	5317.0	5472.8	4613.5	3945.8	3443.2
69°	320.0	329.6	391.0	558.6	1072.2	2795.1	5356.0	5877.3	5078.0	3912.6	3129.0
70°	309.9	318.3	374.2	505.6	838.0	2344.0	5206.6	5841.8	5196.7	3786.3	2894.4
72.5°	263.0	270.2	333.1	446.7	681.1	1163.6	4229.4	4950.1	4663.3	3154.1	2095.0
75°	175.9	199.7	319.7	418.7	633.6	661.0	2788.4	3577.1	3323.0	2127.4	1091.4
77.5°	42.2	45.5	90.2	333.1	579.4	581.8	1434.0	2223.8	1813.8	758.3	258.0
80°	22.7	21.9	25.3	66.1	539.5	546.0	645.5	1079.4	647.6	125.7	85.0
82.5°	16.1	15.2	16.3	27.7	169.8	497.3	467.1	488.6	268.4	48.3	38.1
85°	5.8	5.6	9.1	25.0	53.3	285.9	479.8	402.9	217.5	22.2	28.0
87.5°	2.0	1.7	3.5	13.6	16.3	121.8	296.1	304.7	85.7	13.4	13.1
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°	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1328.4	1310.3	1277.1	1243.1	1211.5	1173.8	1154.9	1136.2	1128.3	1125.4	1111.7
5°	1290.0	1259.3	1188.8	1118.2	1052.9	983.7	937.9	901.2	879.6	869.1	852.6
7.5°	1240.7	1190.6	1083.8	974.6	873.0	772.8	698.5	641.5	602.1	583.2	566.1
10°	1193.0	1126.3	974.3	825.5	687.5	554.7	452.3	377.9	330.5	308.6	294.7
12.5°	1150.2	1063.6	868.6	680.2	507.0	351.5	247.3	188.2	158.7	148.5	143.5
15°	1112.0	1006.1	768.7	542.2	343.3	200.9	135.2	115.0	110.4	110.4	109.8
17.5°	1075.8	949.6	672.4	412.6	215.5	122.9	102.8	100.2	100.2	101.3	101.3
20°	1041.2	895.7	579.2	296.1	135.7	97.6	92.9	92.4	92.9	94.3	94.3
22.5°	1011.5	846.8	492.1	203.2	100.7	88.0	85.7	84.7	85.0	85.9	86.6
25°	989.5	805.5	409.9	137.7	86.8	80.1	77.5	76.1	74.9	74.9	75.4
27.5°	975.4	770.5	330.5	100.2	78.0	72.7	68.8	66.4	63.8	62.3	63.0
30°	965.3	737.3	256.0	81.8	69.9	64.7	59.4	55.6	51.8	50.0	50.7
32.5°	961.5	710.5	191.3	72.2	62.6	56.9	50.4	45.5	41.3	39.9	40.2
35°	971.7	689.2	140.1	65.2	56.9	49.5	42.2	36.7	33.5	32.6	32.9
37.5°	998.5	677.9	104.8	59.4	51.6	43.3	35.2	30.0	28.0	28.0	28.3
40°	1049.1	677.6	84.1	55.2	46.9	37.5	29.2	25.3	24.1	24.8	25.0
42.5°	1123.0	693.0	73.4	51.6	42.8	32.0	24.1	21.6	21.3	21.9	22.2
45°	1224.1	721.2	67.5	48.3	38.5	26.8	20.4	18.7	18.7	19.5	19.7
47.5°	1347.9	762.6	62.6	45.2	34.1	22.4	17.5	16.3	16.6	17.5	17.8
50°	1497.0	814.7	57.7	41.6	30.8	18.7	15.2	14.3	14.5	15.8	16.1
52.5°	1666.7	884.9	53.5	38.5	26.8	15.4	12.8	12.2	12.8	13.9	14.3
55°	1812.3	947.9	48.6	35.8	21.6	12.8	10.5	10.5	11.0	12.6	12.8
57.5°	1952.4	1013.6	44.2	30.8	16.9	10.2	8.7	9.1	10.0	11.4	11.7
60°	2158.0	1125.2	39.0	25.9	12.8	8.2	7.3	7.5	8.7	10.2	10.5
62.5°	2507.1	1294.9	33.8	21.6	10.0	6.4	5.8	6.4	7.8	9.7	10.0
65°	2822.1	1363.9	27.7	18.0	7.5	4.9	4.9	5.8	7.5	9.3	9.7
67.5°	2646.6	1148.1	21.6	14.3	5.8	3.9	4.1	5.6	7.3	9.3	9.7
69°	2340.6	938.7	18.3	11.4	4.9	3.5	3.9	5.6	7.3	9.1	9.3
70°	2102.0	792.5	16.3	9.7	4.4	3.5	3.9	5.3	7.3	9.1	9.3
72.5°	1408.0	428.1	13.1	7.0	4.1	3.2	3.2	5.3	7.0	8.7	9.1
75°	605.1	118.2	10.5	4.9	3.5	2.9	2.9	4.9	6.7	8.4	9.1
77.5°	110.7	30.0	8.4	4.4	3.5	2.9	2.6	4.7	6.4	8.2	8.4
80°	43.9	14.9	6.7	3.9	3.2	2.6	2.3	4.4	6.1	7.8	8.2
82.5°	26.6	8.4	5.6	3.5	3.2	2.3	2.0	3.9	5.8	7.5	7.8
85°	21.6	5.8	4.4	3.5	2.9	2.3	1.7	3.5	5.3	7.3	7.5
87.5°	10.5	4.1	4.1	3.2	2.9	2.3	1.7	3.2	4.9	7.0	7.3
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)