

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: P192659

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.9 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 44
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

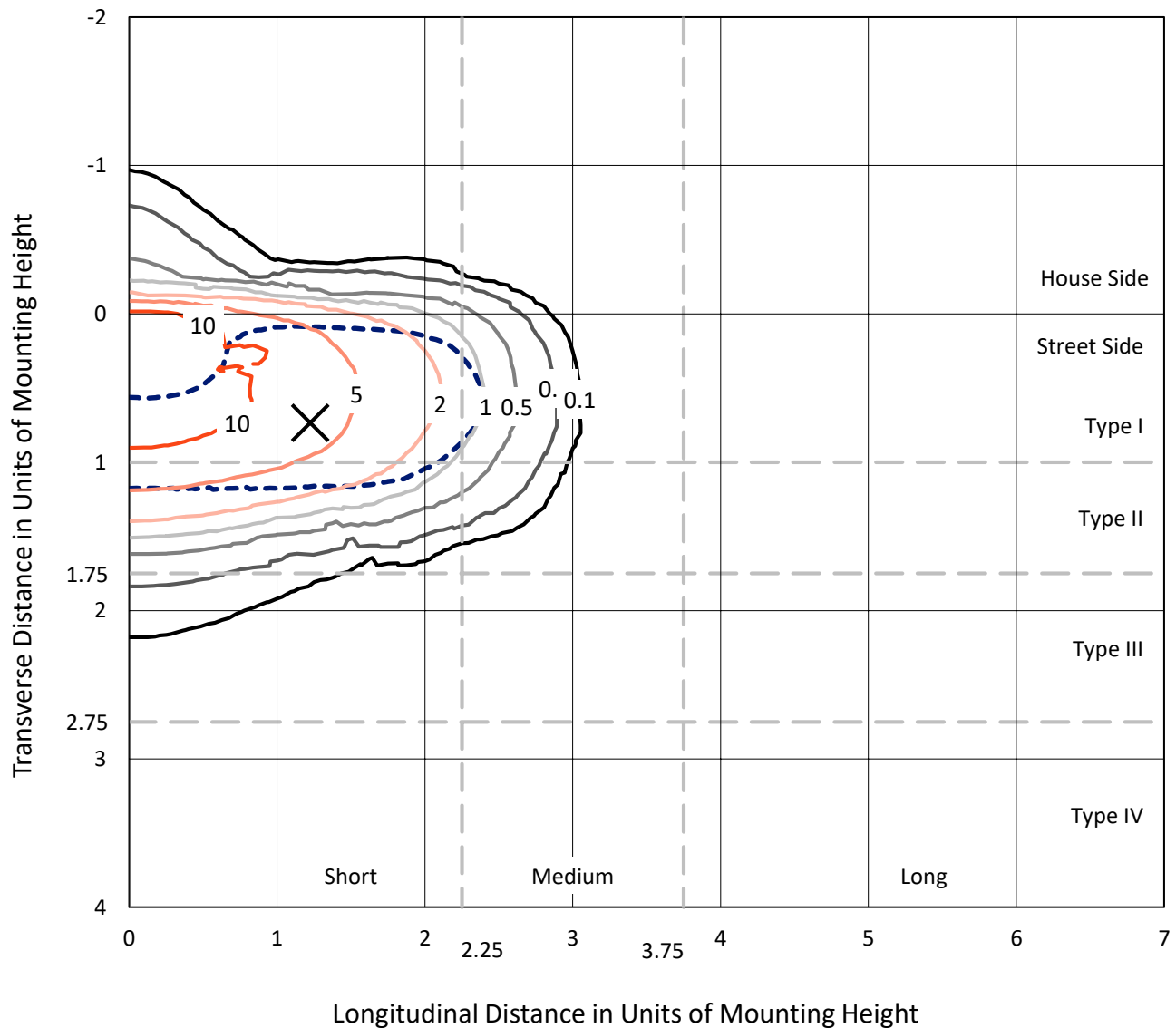


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

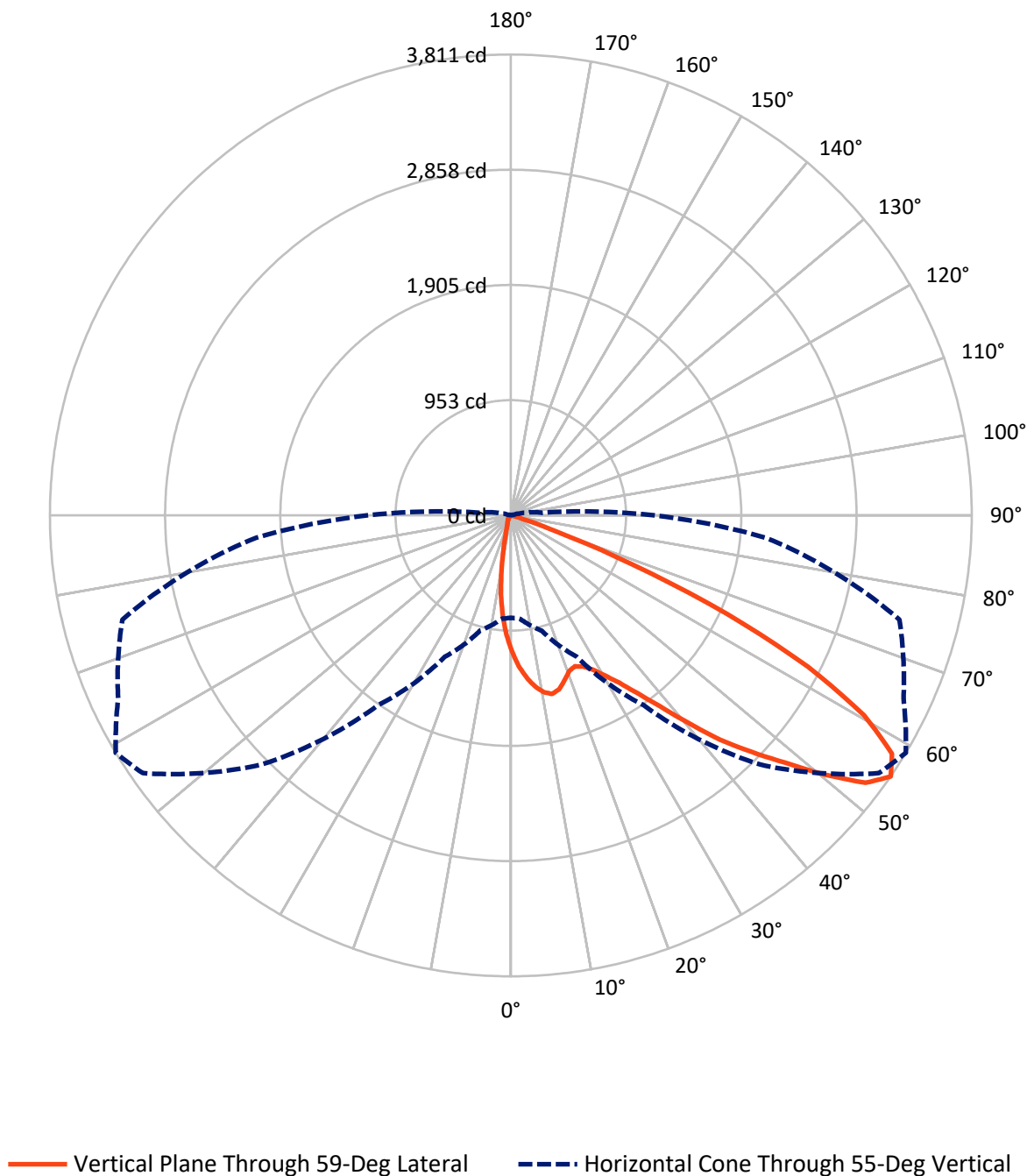


Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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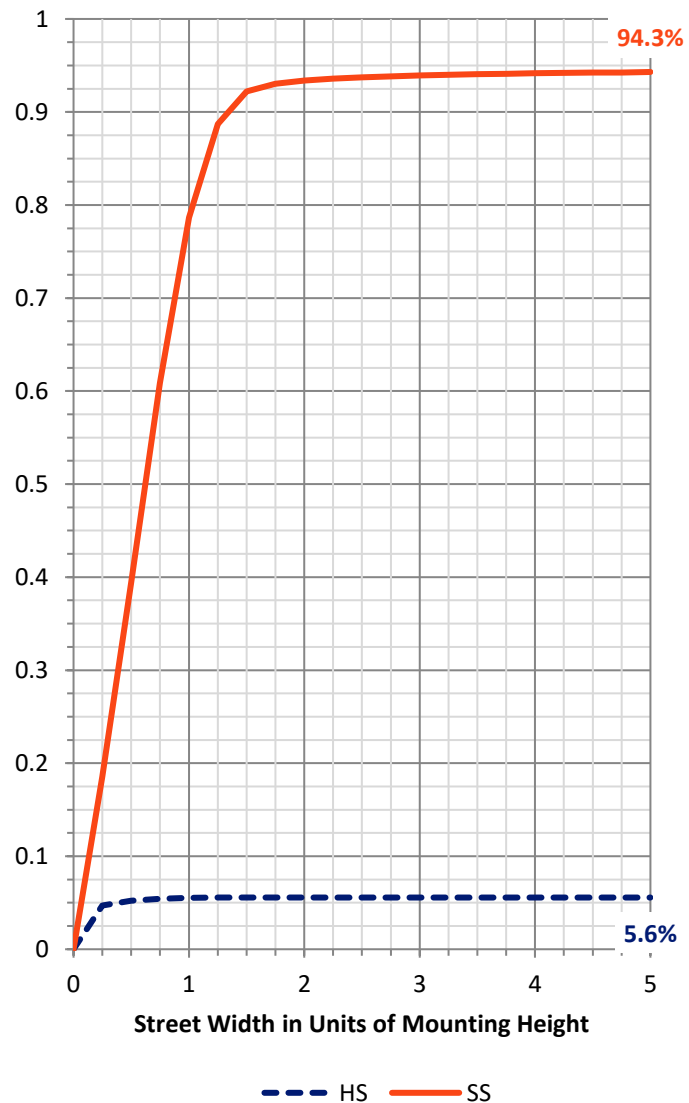
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.7	0.0	222.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3764.2	0.0	3764.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	3986.9	0.0	3986.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	2.4
10°-20°	225.1	5.6
20°-30°	383.0	9.6
30°-40°	658.6	16.5
40°-50°	1016.9	25.5
50°-60°	1022.3	25.6
60°-70°	524.2	13.1
70°-80°	56.8	1.4
80°-90°	5.9	0.1
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°	3986.9	100.0
0°-180°	3986.9	100.0

Coefficient of Utilization



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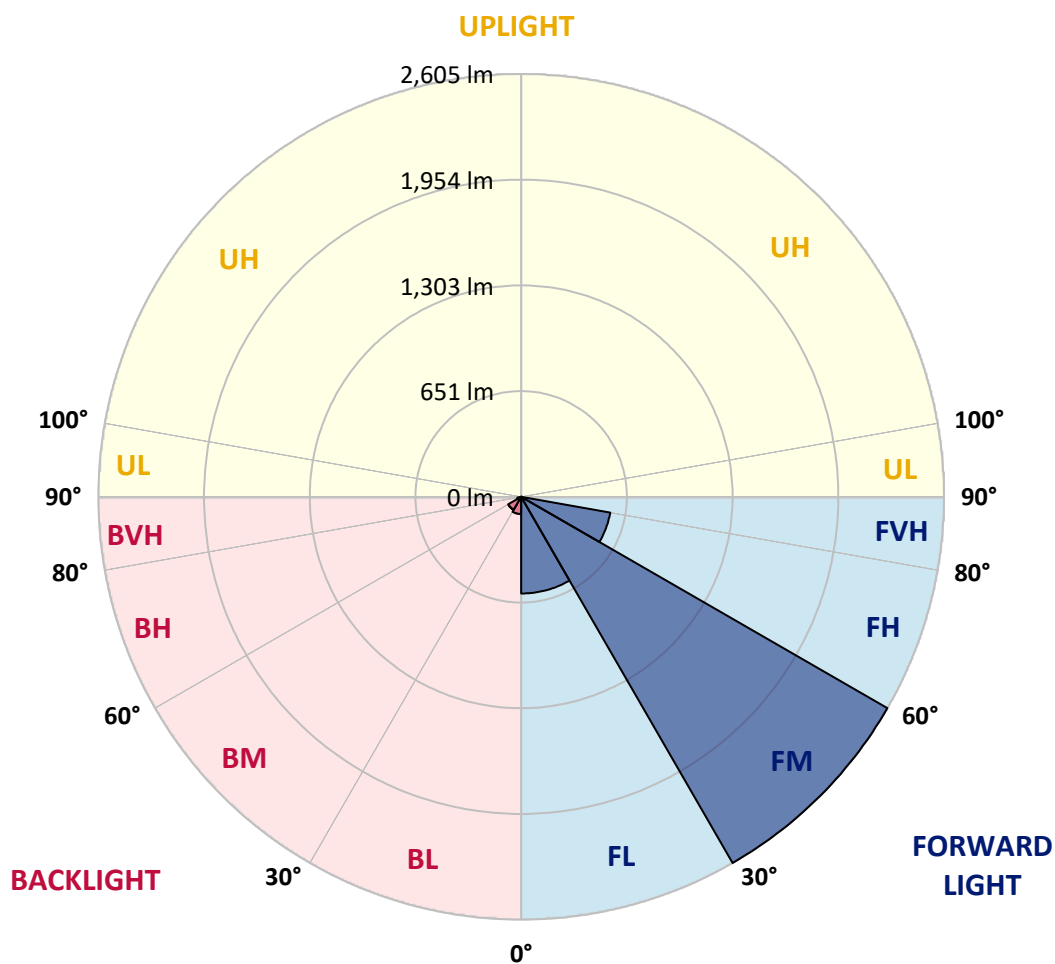
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.8	14.9			
FM	(30°-60°)	2605.4	65.3			
FH	(60°-80°)	557.2	14.0			G0/660
FVH	(80°-90°)	5.8	0.1			G0/10
BL	(0°-30°)	106.3	2.7	B0/110		
BM	(30°-60°)	92.4	2.3	B0/220		
BH	(60°-80°)	23.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1327.9	1313.9	1309.6	1306.7	1293.8	1277.6	1255.5	1245.1	1223.9	1189.9	1148.0
5°	1449.6	1447.0	1437.6	1432.4	1418.5	1395.5	1360.2	1343.3	1309.6	1252.1	1177.2
7.5°	1396.5	1412.6	1425.7	1447.2	1474.5	1473.6	1444.0	1426.3	1388.5	1312.9	1209.6
10°	1191.0	1204.1	1225.4	1274.5	1374.7	1463.2	1498.1	1485.4	1455.3	1368.6	1240.8
12.5°	1150.7	1149.3	1153.1	1167.4	1219.9	1346.1	1488.8	1514.6	1508.5	1419.8	1270.4
15°	1172.2	1170.5	1170.0	1175.0	1187.6	1240.8	1420.0	1493.6	1540.9	1467.1	1295.7
17.5°	1232.1	1225.2	1221.3	1217.3	1213.6	1226.8	1337.2	1435.0	1545.8	1508.5	1316.7
20°	1334.9	1323.2	1309.4	1286.7	1265.5	1259.0	1302.3	1374.7	1528.1	1539.9	1330.2
22.5°	1464.2	1449.1	1425.1	1383.9	1340.8	1315.9	1319.5	1355.7	1501.8	1574.3	1336.7
25°	1609.3	1590.0	1558.0	1500.9	1437.6	1393.4	1370.3	1383.0	1489.8	1614.6	1343.9
27.5°	1764.9	1743.4	1701.6	1623.7	1551.9	1492.2	1445.1	1443.5	1510.3	1667.2	1355.7
30°	1918.9	1915.7	1861.1	1778.7	1683.6	1610.9	1543.2	1534.5	1567.5	1740.2	1379.0
32.5°	2124.5	2099.9	2033.1	1948.3	1838.8	1751.4	1671.2	1651.0	1655.2	1825.0	1415.0
35°	2383.8	2356.8	2262.6	2145.8	2023.2	1920.1	1831.4	1803.9	1793.6	1964.2	1475.6
37.5°	2551.4	2550.8	2491.8	2372.8	2241.2	2127.6	2031.1	1998.9	1978.0	2132.0	1569.8
40°	2555.9	2566.9	2574.7	2573.5	2479.8	2375.2	2289.5	2249.7	2201.0	2356.6	1691.5
42.5°	2418.7	2447.2	2515.5	2631.8	2687.3	2645.7	2573.5	2534.5	2461.9	2596.8	1839.7
45°	2233.3	2253.0	2372.8	2586.9	2799.9	2914.0	2858.9	2789.1	2693.5	2847.4	1972.5
47.5°	2150.2	2153.7	2231.2	2466.2	2808.3	3133.7	3167.1	3053.5	2903.8	3049.2	2076.6
50°	1901.9	1908.3	2015.2	2257.1	2709.0	3237.5	3476.7	3369.0	3133.2	3204.8	2114.5
52.5°	1433.6	1442.5	1578.0	1913.3	2436.1	3193.2	3698.4	3672.3	3384.6	3280.7	2116.6
55°	845.8	857.5	987.0	1287.9	1916.1	2911.9	3714.9	3810.9	3582.8	3325.8	2113.3
57.5°	395.1	403.2	477.4	663.5	1191.7	2301.3	3466.9	3715.8	3692.3	3349.5	2136.6
60°	209.9	212.2	230.1	287.3	538.5	1459.1	2982.9	3355.4	3592.6	3382.4	2165.1
62.5°	160.5	161.1	160.2	167.0	226.3	647.7	2254.7	2758.5	3190.9	3357.6	2133.5
65°	139.1	140.2	133.7	131.9	145.2	231.1	1339.4	1966.2	2507.4	3024.3	1918.7
67.5°	124.7	125.2	117.1	110.4	112.6	124.9	528.5	1076.4	1659.6	2216.9	1390.8
70°	114.8	114.4	105.7	94.8	91.8	85.4	168.0	394.5	793.1	1124.2	646.9
72.5°	101.6	101.8	97.7	83.5	76.3	59.8	77.9	115.0	236.6	306.4	151.6
75°	90.1	88.9	83.8	74.9	62.9	39.4	38.6	51.3	72.9	72.4	32.7
77.5°	65.1	64.0	65.7	61.4	48.2	25.4	19.3	24.7	29.6	28.7	9.2
80°	47.7	47.1	42.4	51.1	42.6	17.4	12.0	13.2	15.3	12.9	2.8
82.5°	32.7	32.4	29.8	28.2	24.2	10.6	7.5	8.2	9.9	7.3	1.4
85°	5.1	5.9	21.7	17.2	14.3	4.7	5.1	5.7	6.5	4.1	0.4
87.5°	0.0	0.0	10.2	9.0	2.8	1.8	3.1	3.3	3.3	2.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1126.6	1103.0	1059.5	1014.6	972.9	923.2	889.2	863.4	833.8	825.8	843.3
5°	1134.3	1089.9	996.2	894.3	798.5	692.4	611.3	547.1	488.9	469.2	487.1
7.5°	1146.5	1080.3	927.7	760.0	593.4	427.7	314.3	239.8	192.2	178.1	185.6
10°	1158.8	1066.8	848.4	600.9	373.1	208.2	135.5	108.2	98.2	96.0	97.1
12.5°	1168.8	1048.5	751.7	427.3	199.5	111.6	88.7	84.2	82.8	82.8	83.2
15°	1175.0	1020.7	637.1	271.7	114.8	84.2	77.3	76.1	76.1	76.3	76.7
17.5°	1174.3	985.4	511.8	164.4	85.9	74.7	70.6	69.4	69.2	69.6	69.9
20°	1165.6	939.2	385.9	108.5	74.9	68.0	64.0	61.8	61.6	62.2	62.6
22.5°	1149.1	882.3	276.0	83.5	67.5	61.6	56.7	54.8	54.8	55.2	55.7
25°	1129.0	812.7	188.7	70.8	60.9	54.8	50.1	48.5	48.9	50.1	50.4
27.5°	1104.2	734.3	128.3	60.7	53.0	48.0	44.5	43.2	44.5	46.1	46.6
30°	1082.8	652.8	91.6	52.5	44.9	41.4	39.4	39.4	41.0	44.0	44.7
32.5°	1066.3	573.6	70.6	46.3	39.0	35.9	34.9	35.9	38.6	41.6	42.4
35°	1064.1	508.5	59.8	41.4	34.9	31.8	31.2	33.5	35.9	38.4	38.8
37.5°	1080.3	448.2	53.9	37.3	31.0	28.2	27.8	30.4	32.9	35.7	36.5
40°	1111.2	400.9	49.6	33.7	28.0	24.9	24.0	25.9	29.4	33.3	34.1
42.5°	1151.3	361.8	44.9	29.8	24.9	20.8	19.5	21.7	25.4	29.4	30.6
45°	1189.4	328.3	39.8	25.6	21.0	16.0	15.6	18.3	20.2	24.2	25.1
47.5°	1210.3	298.6	35.3	21.0	16.3	12.9	12.9	13.6	15.6	20.2	21.2
50°	1203.3	274.8	30.6	15.6	11.3	9.9	9.9	9.7	12.4	16.3	16.9
52.5°	1189.1	261.1	26.3	12.0	7.7	7.1	6.3	7.1	8.7	10.4	10.6
55°	1187.0	258.8	22.1	9.7	5.5	4.7	3.5	3.5	3.5	3.3	2.8
57.5°	1203.5	262.6	18.6	7.7	4.1	3.1	1.8	0.0	0.0	0.0	0.0
60°	1220.4	266.6	16.0	5.5	2.8	1.6	0.2	0.0	0.0	0.0	0.0
62.5°	1192.1	257.7	13.4	3.3	2.0	0.6	0.0	0.0	0.0	0.0	0.0
65°	1047.2	219.3	10.6	2.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	744.9	146.9	7.1	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	340.1	61.4	4.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	72.6	19.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.9	13.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.8	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)