

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: P200190

Luminaire Tested: **GAP-AF-02-LED-U-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T3-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10269.4 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 86
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

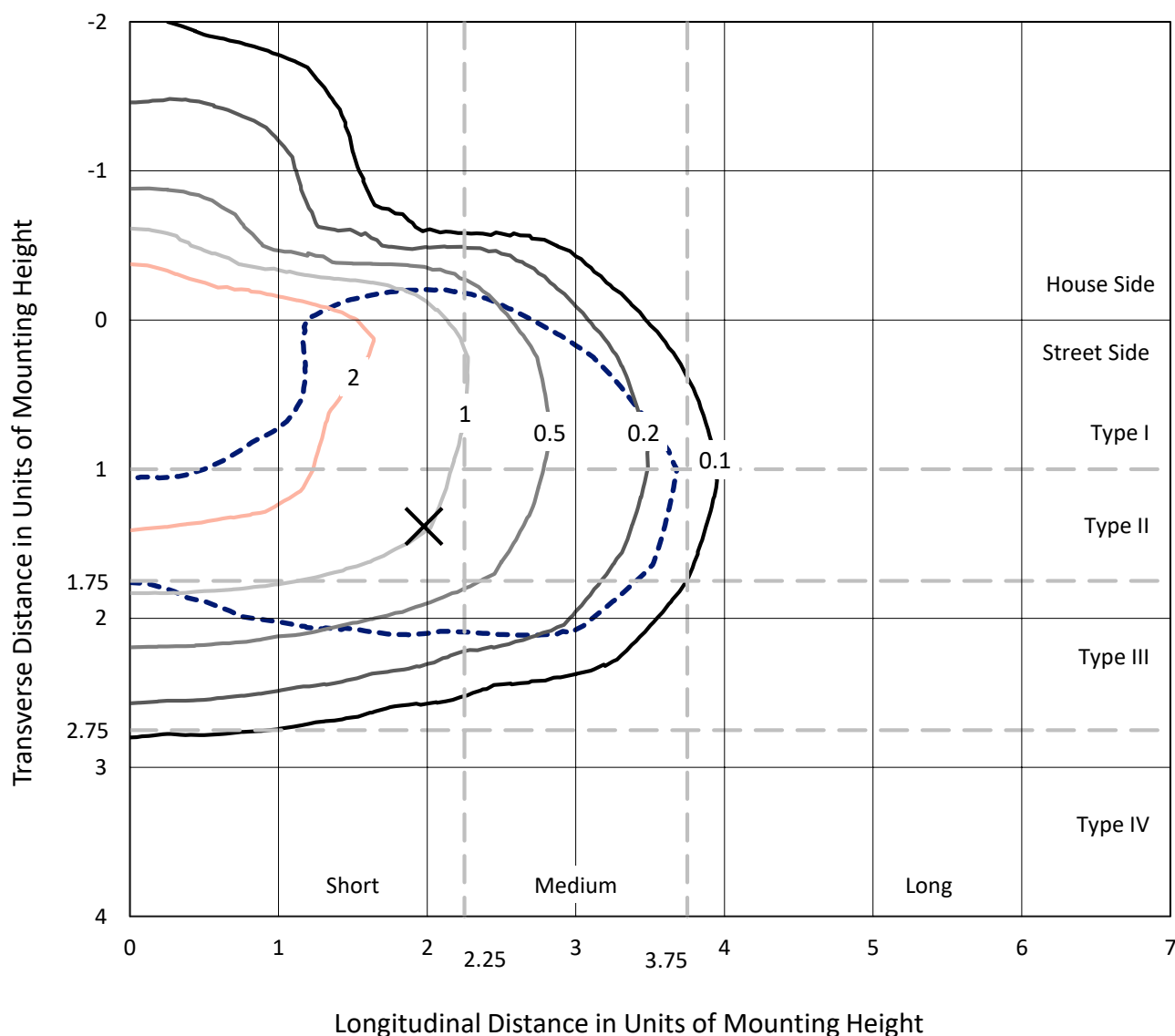


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

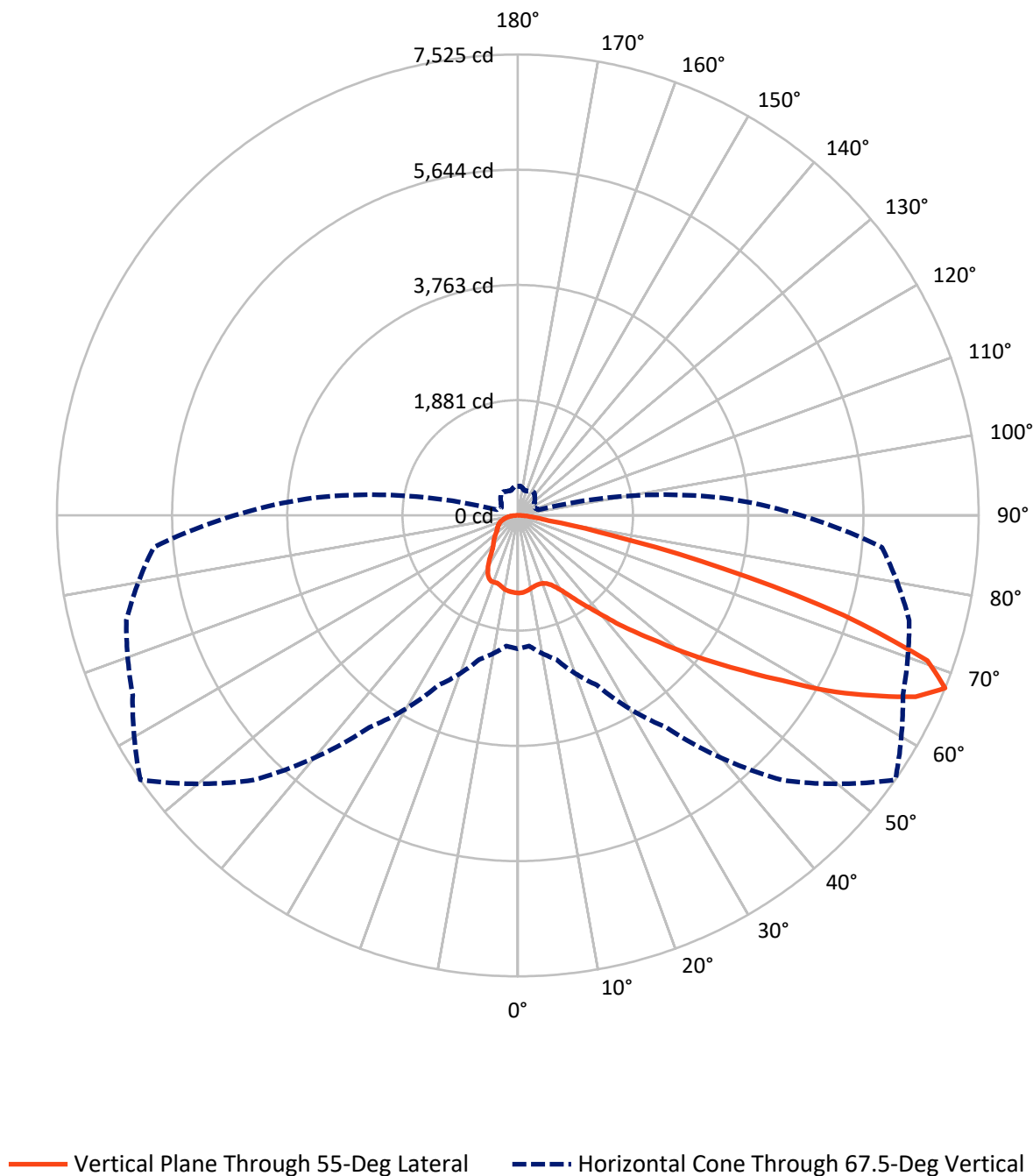


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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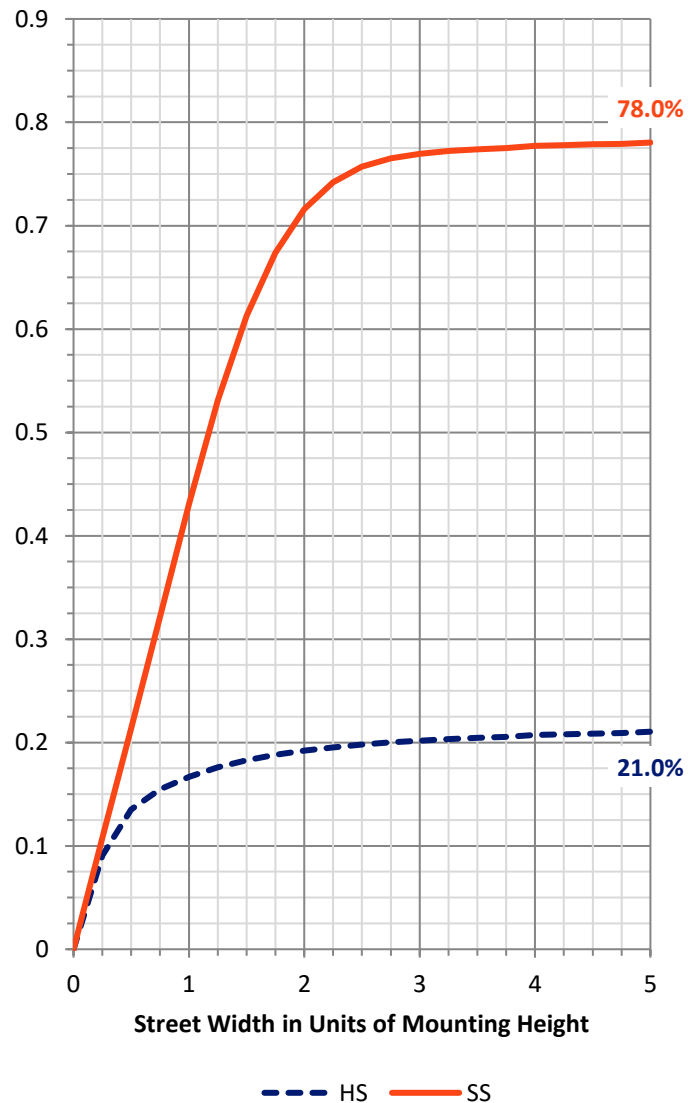
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2218.4	0.0	2218.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8051.0	0.0	8051.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	10269.4	0.0	10269.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	1.2
10°-20°	334.8	3.3
20°-30°	560.8	5.5
30°-40°	922.1	9.0
40°-50°	1552.2	15.1
50°-60°	2443.1	23.8
60°-70°	2915.6	28.4
70°-80°	1252.0	12.2
80°-90°	170.7	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°	10269.4	100.0
0°-180°	10269.4	100.0

Coefficient of Utilization



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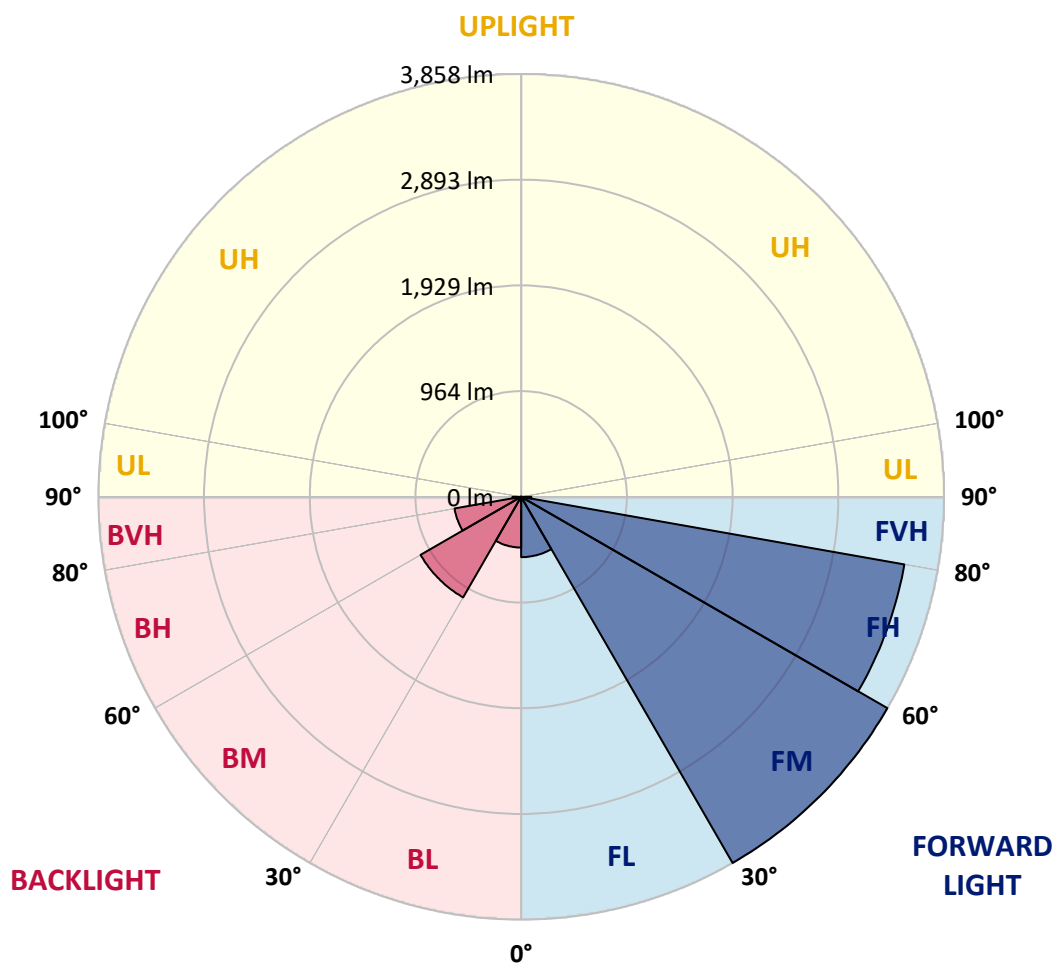
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.5	5.4			
FM	(30°-60°)	3857.9	37.6			
FH	(60°-80°)	3550.2	34.6			G2/5000
FVH	(80°-90°)	92.4	0.9			G1/100
BL	(0°-30°)	463.2	4.5	B1/500		
BM	(30°-60°)	1059.5	10.3	B2/2500		
BH	(60°-80°)	617.4	6.0	B2/1000		G2/1000
BVH	(80°-90°)	78.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1255.5	1255.9	1256.9	1260.9	1264.4	1263.3	1263.9	1261.9	1261.4	1258.4	1261.4
5°	1239.5	1241.0	1241.6	1248.0	1252.0	1252.9	1251.5	1248.9	1246.0	1243.0	1244.5
7.5°	1203.3	1207.3	1207.8	1216.7	1223.1	1231.6	1232.1	1232.6	1231.1	1229.2	1232.1
10°	1180.5	1181.5	1181.0	1187.4	1192.5	1201.9	1207.3	1216.7	1220.7	1221.7	1223.7
12.5°	1179.1	1178.0	1176.6	1176.6	1175.1	1179.1	1189.0	1202.4	1211.8	1214.8	1217.2
15°	1194.9	1194.4	1189.5	1182.0	1172.6	1169.6	1178.0	1193.0	1205.3	1211.8	1214.2
17.5°	1230.6	1227.6	1219.7	1202.9	1182.5	1174.6	1175.6	1188.0	1202.4	1210.8	1213.2
20°	1296.1	1296.1	1279.2	1247.5	1211.3	1192.5	1183.5	1190.9	1204.8	1216.2	1219.7
22.5°	1409.2	1410.1	1381.9	1329.8	1268.8	1228.7	1206.3	1204.8	1221.2	1234.1	1238.1
25°	1569.4	1565.4	1525.7	1451.4	1358.6	1292.1	1253.4	1244.5	1258.4	1272.8	1277.8
27.5°	1755.9	1741.5	1694.4	1604.6	1484.6	1387.3	1327.8	1313.5	1326.9	1343.2	1348.1
30°	1940.4	1925.5	1869.4	1771.2	1637.8	1514.8	1429.5	1406.3	1425.1	1448.4	1451.4
32.5°	2125.0	2125.0	2062.5	1947.9	1802.5	1667.1	1564.9	1537.2	1568.4	1596.7	1603.2
35°	2345.6	2346.6	2286.1	2148.2	1992.0	1848.7	1736.0	1715.7	1762.9	1782.7	1798.0
37.5°	2617.0	2622.4	2544.6	2378.0	2206.8	2056.0	1922.0	1894.3	1941.5	1995.5	2045.1
40°	2910.1	2917.0	2831.2	2625.9	2454.8	2297.0	2152.2	2102.2	2180.5	2283.6	2347.7
42.5°	3189.9	3225.6	3142.7	2931.5	2747.4	2584.3	2437.4	2364.6	2462.8	2618.4	2674.0
45°	3594.1	3619.9	3475.6	3284.1	3111.0	2928.5	2734.0	2657.1	2794.6	2991.0	3002.4
47.5°	3863.5	3844.1	3770.7	3651.6	3542.1	3371.4	3078.8	2994.5	3177.0	3408.2	3344.1
50°	4006.8	4012.7	4002.8	4009.8	4013.8	3906.6	3501.4	3385.8	3603.5	3882.8	3735.5
52.5°	4140.7	4101.1	4133.8	4296.5	4492.9	4453.2	3961.2	3840.7	4060.9	4409.6	4149.2
55°	4137.7	4077.3	4183.9	4471.1	4897.2	4942.8	4477.6	4338.6	4544.5	4974.5	4587.6
57.5°	3991.5	3994.4	4158.6	4534.5	5178.9	5403.1	5076.7	4868.4	5057.4	5547.0	4987.9
60°	3790.0	3817.3	4054.0	4524.2	5404.6	5780.6	5811.8	5439.3	5559.8	6067.2	5319.2
62.5°	3465.1	3493.9	3820.3	4416.1	5370.4	6144.1	6476.5	6087.1	6085.1	6382.7	5416.5
65°	2952.7	2944.4	3287.2	4011.8	5083.1	6413.0	7136.7	6647.1	6480.9	6387.7	5221.0
67.5°	2177.6	2139.8	2433.9	3055.5	4225.1	6111.9	7525.0	6938.8	6615.8	5967.6	4623.8
70°	1130.0	1092.2	1330.3	1784.1	2778.6	4770.2	7095.0	6788.0	6317.7	5002.3	3622.4
72.5°	483.1	476.7	573.4	782.8	1344.2	2751.4	5563.3	5875.3	5420.9	3727.0	2490.5
75°	324.9	322.9	359.2	426.6	604.7	1116.6	3481.5	4170.5	3966.2	2310.9	1400.7
77.5°	254.9	252.5	273.8	306.6	391.9	440.5	1545.1	2239.0	2072.4	1006.0	613.1
80°	199.4	197.4	210.8	228.6	281.7	277.7	508.4	890.9	689.5	385.4	298.1
82.5°	157.2	157.2	168.2	168.7	199.9	189.5	265.4	392.3	344.2	224.7	182.5
85°	143.8	143.8	155.3	126.0	130.4	119.6	164.7	232.6	218.3	92.3	79.4
87.5°	72.4	70.5	130.4	111.6	70.9	63.5	80.4	112.6	121.0	51.0	39.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1260.4	1259.9	1260.9	1261.4	1265.3	1270.8	1273.3	1276.7	1278.7	1277.8
5°	1245.5	1246.5	1250.5	1253.4	1260.4	1269.3	1274.3	1278.3	1281.7	1280.2
7.5°	1233.1	1235.6	1241.6	1244.0	1248.0	1250.5	1249.9	1251.5	1254.4	1251.0
10°	1226.1	1229.2	1233.6	1230.1	1220.7	1207.3	1194.9	1188.5	1190.4	1188.0
12.5°	1219.3	1223.1	1219.7	1203.3	1177.0	1159.7	1150.3	1151.2	1155.7	1156.8
15°	1215.3	1216.7	1201.9	1171.1	1144.3	1141.8	1146.8	1145.8	1146.3	1146.3
17.5°	1215.3	1211.3	1183.5	1152.8	1141.3	1136.9	1121.5	1102.1	1093.7	1090.8
20°	1221.7	1211.3	1177.5	1157.2	1132.4	1094.3	1053.5	1017.8	1002.0	997.5
22.5°	1241.0	1223.1	1194.4	1159.2	1088.7	1024.8	960.2	917.6	888.8	883.9
25°	1280.2	1260.4	1227.6	1132.9	1019.3	928.0	854.7	807.0	778.3	774.3
27.5°	1348.7	1335.8	1245.5	1074.9	927.1	829.3	761.4	724.7	703.4	701.8
30°	1451.9	1445.4	1236.5	989.1	813.5	733.6	700.8	679.5	663.7	663.2
32.5°	1616.5	1564.4	1207.3	884.4	709.8	665.6	652.2	639.3	627.0	627.0
35°	1828.3	1660.7	1151.7	772.3	646.8	628.0	611.1	590.8	574.4	573.4
37.5°	2077.3	1720.2	1052.0	682.0	617.0	602.6	577.9	547.6	518.8	513.8
40°	2328.7	1738.0	911.7	626.5	598.2	577.4	547.1	511.4	483.7	482.1
42.5°	2559.4	1703.8	762.9	588.3	579.3	551.6	519.9	488.0	466.3	465.7
45°	2752.9	1615.0	637.9	552.1	559.6	528.3	500.0	474.2	457.4	453.9
47.5°	2934.9	1489.5	550.0	513.8	539.7	515.4	491.5	467.3	450.9	448.4
50°	3146.2	1354.1	488.6	476.7	522.3	510.9	498.5	473.2	445.9	442.9
52.5°	3402.1	1237.1	440.5	444.0	508.9	516.9	516.4	490.1	442.4	438.4
55°	3687.8	1107.1	404.3	417.2	503.5	527.7	520.8	506.0	445.4	439.5
57.5°	3969.2	955.3	379.0	396.8	495.5	526.8	499.5	478.1	452.3	444.0
60°	4179.9	751.5	359.6	379.0	478.1	510.4	476.2	448.0	450.9	444.5
62.5°	4193.8	580.8	336.3	363.6	451.8	494.0	460.8	434.5	457.4	451.3
65°	3947.3	438.9	313.9	345.2	423.6	483.7	445.9	427.1	470.8	464.3
67.5°	3323.3	353.1	295.1	326.4	395.4	461.8	432.5	420.1	482.6	471.2
70°	2399.2	301.1	276.8	303.6	370.0	437.0	420.6	407.7	450.4	432.5
72.5°	1477.1	261.0	255.9	273.3	350.7	411.2	402.7	384.4	405.7	391.4
75°	737.5	226.2	232.6	243.6	323.4	382.0	373.0	354.7	357.6	354.7
77.5°	353.1	193.4	205.3	213.8	288.2	348.7	339.3	320.4	316.9	317.4
80°	223.7	161.7	173.1	179.0	257.5	310.1	300.5	281.7	321.4	298.1
82.5°	139.8	131.4	134.4	145.4	224.2	269.9	257.5	240.6	289.7	229.1
85°	77.3	91.8	95.7	105.2	172.6	225.7	213.3	192.0	172.2	169.1
87.5°	46.1	54.5	56.1	63.0	116.1	163.2	144.3	136.9	113.5	113.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)