

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: P200198

Luminaire Tested: **GAP-AF-02-LED-U-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10497.5 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - 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

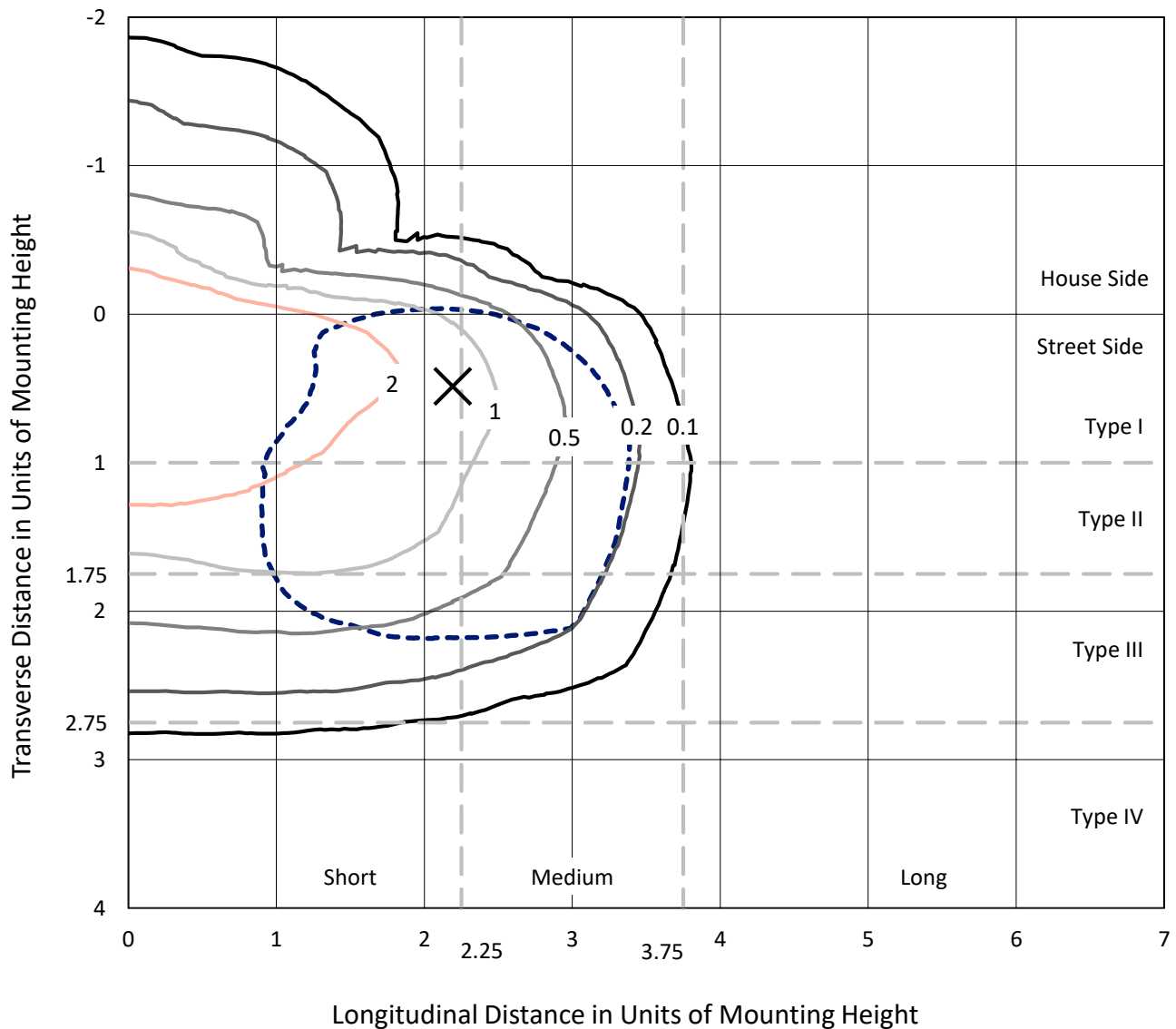


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

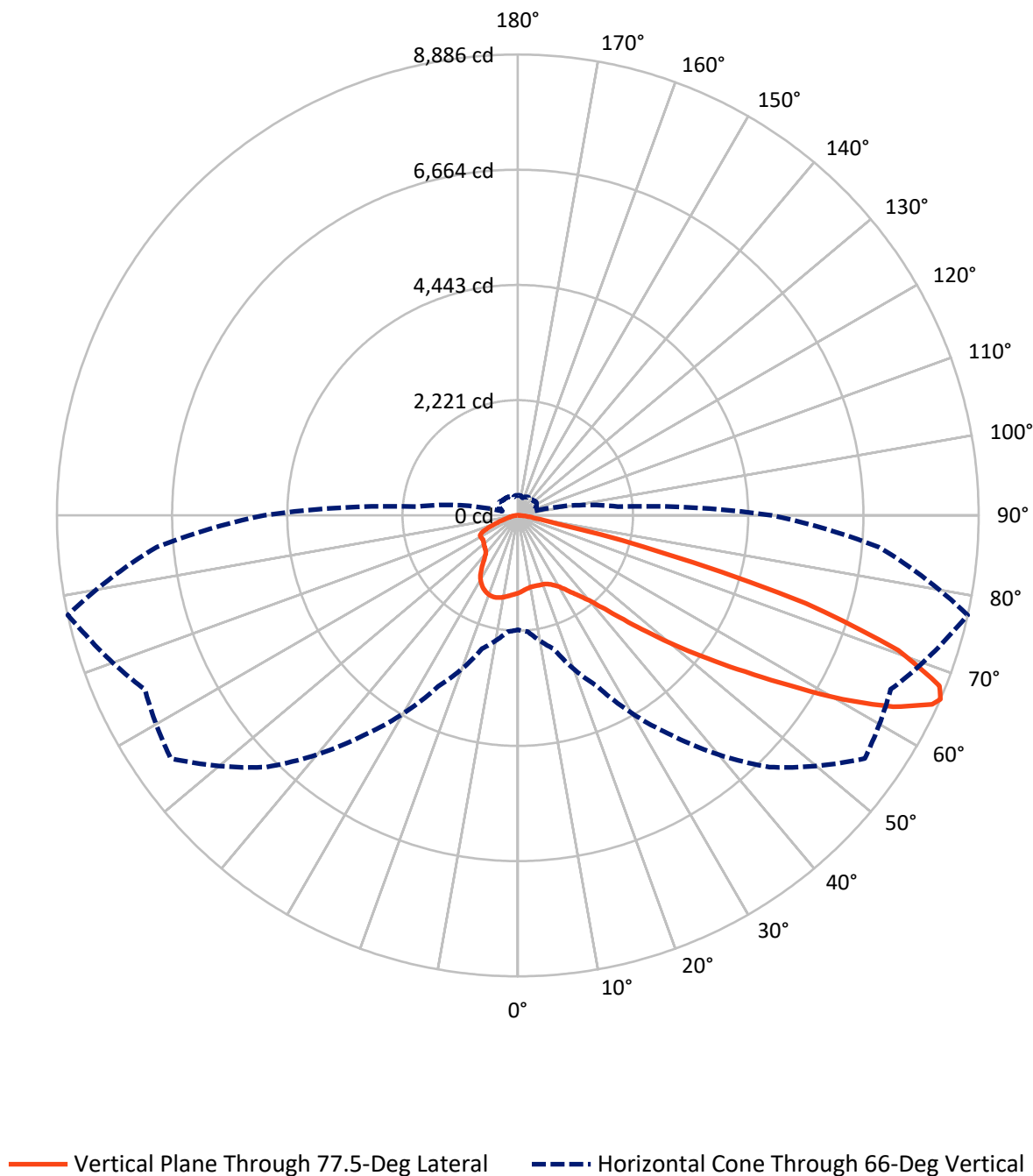


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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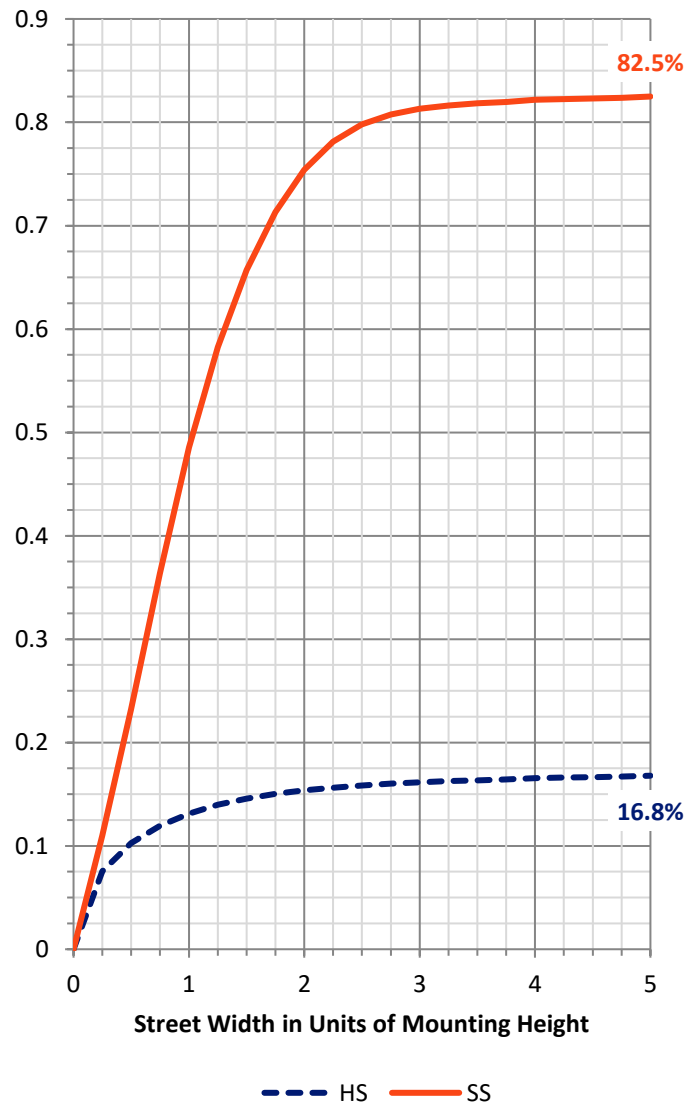
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.4	0.0	1793.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8704.1	0.0	8704.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	10497.5	0.0	10497.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	1.3
10°-20°	377.1	3.6
20°-30°	643.5	6.1
30°-40°	1030.1	9.8
40°-50°	1591.4	15.2
50°-60°	2257.2	21.5
60°-70°	3019.5	28.8
70°-80°	1311.3	12.5
80°-90°	133.7	1.3
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°	10497.5	100.0
0°-180°	10497.5	100.0

Coefficient of Utilization



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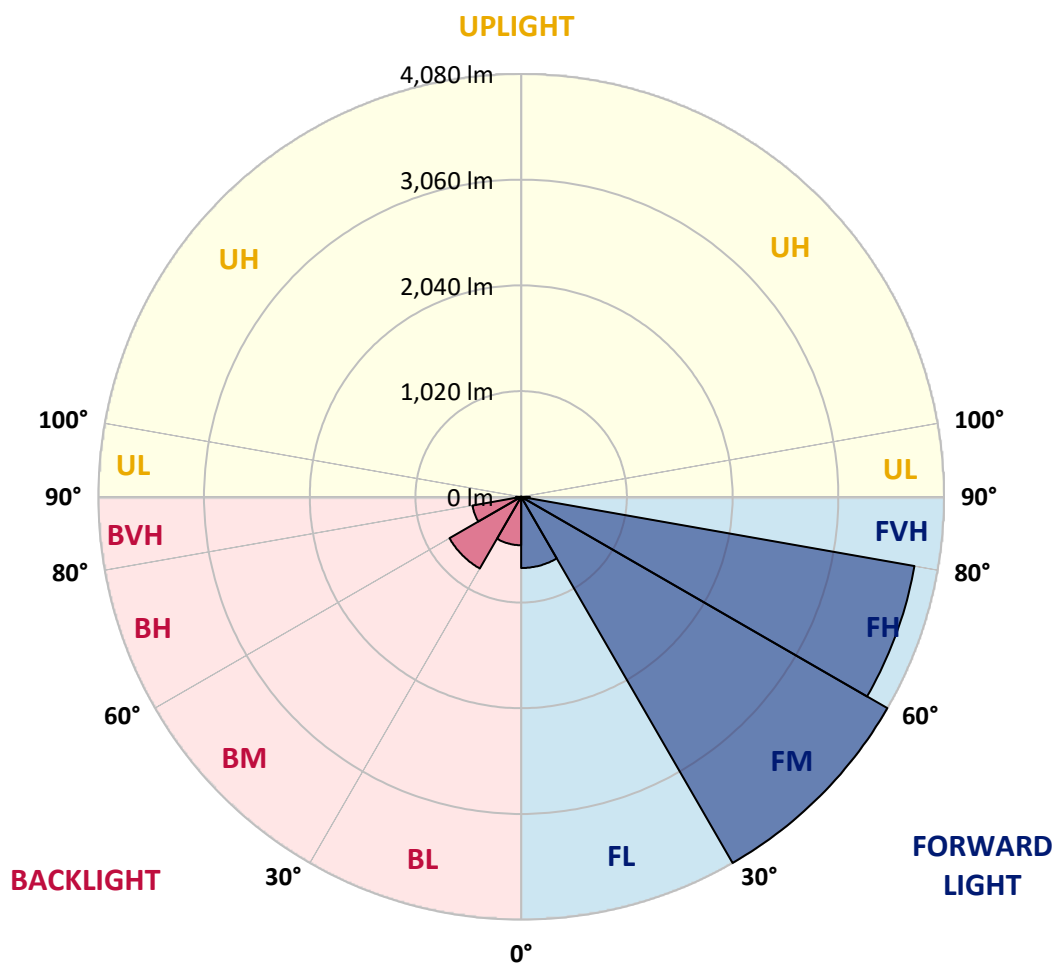
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.1	6.5			
FM	(30°-60°)	4079.9	38.9			
FH	(60°-80°)	3853.2	36.7			G2/5000
FVH	(80°-90°)	83.9	0.8			G1/100
BL	(0°-30°)	467.1	4.4	B1/500		
BM	(30°-60°)	798.9	7.6	B1/1000		
BH	(60°-80°)	477.6	4.5	B1/500		G1/500
BVH	(80°-90°)	49.8	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1323.3	1332.3	1339.7	1346.6	1360.5	1383.3	1409.6	1431.0	1461.7	1467.6	1484.0
5°	1201.9	1201.9	1207.8	1218.2	1237.1	1271.2	1306.9	1354.6	1421.6	1437.5	1481.0
7.5°	1142.8	1143.2	1146.7	1155.7	1172.1	1203.3	1242.5	1298.5	1389.3	1415.6	1490.0
10°	1164.6	1159.6	1152.3	1147.8	1150.2	1168.6	1205.8	1268.3	1369.4	1403.2	1509.9
12.5°	1286.7	1277.3	1251.4	1217.2	1184.5	1171.1	1192.9	1253.9	1361.0	1400.2	1536.2
15°	1486.0	1482.1	1434.0	1363.0	1283.7	1217.2	1202.3	1248.4	1362.1	1403.7	1567.4
17.5°	1736.0	1730.5	1667.1	1563.9	1434.5	1305.0	1235.5	1252.9	1365.5	1409.6	1597.6
20°	1988.5	1971.6	1903.2	1780.1	1614.0	1424.6	1290.6	1264.3	1369.9	1416.1	1629.4
22.5°	2176.9	2163.0	2101.6	1982.1	1790.6	1562.9	1364.5	1284.1	1384.4	1434.9	1668.5
25°	2342.7	2343.6	2282.6	2167.0	1969.2	1709.8	1459.8	1337.2	1421.1	1473.7	1722.1
27.5°	2547.5	2535.6	2478.5	2363.9	2145.7	1858.0	1574.8	1410.1	1475.6	1528.7	1792.5
30°	2792.5	2784.1	2718.1	2588.2	2341.6	2017.3	1706.3	1494.9	1546.1	1601.1	1884.8
32.5°	3080.7	3076.7	3008.3	2841.1	2567.8	2204.8	1860.5	1607.1	1651.1	1708.2	2017.3
35°	3418.9	3419.4	3338.6	3137.7	2815.4	2423.0	2035.6	1751.4	1779.1	1838.7	2175.0
37.5°	3627.3	3652.5	3622.3	3417.5	3095.6	2667.0	2262.8	1942.9	1925.0	1985.0	2344.1
40°	3671.9	3702.7	3798.4	3694.3	3409.0	2935.9	2464.2	2126.8	2104.5	2178.0	2561.9
42.5°	3609.4	3652.0	3854.5	3927.8	3741.9	3267.2	2735.0	2400.1	2371.9	2470.6	2832.7
45°	3572.2	3604.0	3838.1	4049.4	4030.5	3641.7	3079.7	2743.3	2733.0	2862.4	3145.2
47.5°	3507.7	3536.5	3761.7	4077.7	4200.1	3984.9	3493.9	3163.0	3183.3	3353.0	3497.8
50°	3542.5	3554.3	3676.4	4005.8	4249.2	4236.3	3956.6	3649.1	3718.5	3930.4	3897.1
52.5°	3537.5	3568.3	3666.5	3887.7	4255.7	4391.6	4412.5	4191.2	4337.5	4580.6	4340.1
55°	2860.0	2916.5	3549.9	3858.0	4278.5	4543.8	4818.2	4762.7	5035.5	5318.6	4840.0
57.5°	2731.0	2766.7	3117.9	3920.5	4399.5	4834.6	5269.5	5391.6	5847.9	6176.8	5449.1
60°	2705.7	2749.8	3113.5	3996.8	4645.1	5308.2	5938.6	6152.9	6836.4	7196.6	6155.4
62.5°	2626.8	2674.4	3084.2	3986.8	4993.7	5963.5	6795.3	6962.4	7773.8	8124.1	6746.2
65°	2376.8	2421.5	2845.5	3826.7	5228.9	6662.8	7809.1	7704.5	8513.9	8777.3	7040.8
66°	2205.7	2249.4	2657.6	3638.2	5174.3	6861.2	8168.2	7934.1	8679.5	8885.9	6983.3
67.5°	1892.8	1926.9	2292.5	3216.1	4884.2	6916.8	8470.2	8106.7	8696.9	8769.9	6654.4
70°	1195.8	1205.8	1490.0	2220.1	3697.3	5998.7	8010.4	7678.2	7979.7	7782.3	5578.6
72.5°	518.8	515.4	715.2	1129.4	2093.2	4025.1	6479.8	6335.4	6259.5	5809.2	3905.0
75°	288.7	292.7	371.5	524.3	850.7	1977.1	4238.8	4056.3	3424.9	2922.5	1770.7
77.5°	231.6	237.1	308.0	372.0	382.0	689.5	1983.5	1614.0	971.7	779.7	492.0
80°	183.0	192.9	268.8	289.7	257.5	284.2	640.9	512.4	384.4	352.6	254.9
82.5°	144.8	151.8	230.7	219.2	180.0	191.5	307.0	299.1	250.0	227.7	147.3
85°	104.1	117.0	189.5	165.2	118.0	129.0	203.9	195.4	143.3	117.0	65.0
87.5°	42.7	55.5	133.9	109.7	66.0	60.0	101.7	95.7	67.9	49.6	32.2
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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1494.4	1506.4	1521.7	1531.2	1536.2	1539.6	1545.1	1544.6	1546.1	1546.5	1548.5
5°	1504.4	1524.2	1546.5	1552.5	1552.5	1547.0	1541.6	1532.7	1529.2	1528.2	1529.2
7.5°	1530.1	1552.0	1571.4	1564.4	1549.6	1527.7	1499.4	1474.6	1461.2	1456.8	1455.8
10°	1562.9	1589.2	1597.1	1570.8	1527.2	1474.6	1418.5	1377.9	1354.6	1348.1	1346.2
12.5°	1602.6	1627.4	1616.5	1560.9	1480.1	1395.3	1317.9	1252.9	1204.3	1188.9	1188.0
15°	1646.2	1665.6	1627.4	1530.1	1409.6	1284.6	1146.7	1034.6	974.2	954.8	953.3
17.5°	1686.9	1696.9	1621.0	1476.6	1306.0	1103.6	920.6	834.3	813.5	818.4	819.4
20°	1721.6	1721.6	1599.1	1399.7	1142.8	865.0	749.4	748.0	762.8	777.7	780.7
22.5°	1759.8	1737.0	1560.9	1291.1	911.7	707.8	690.9	704.8	721.7	738.1	740.5
25°	1806.9	1749.5	1507.8	1126.5	716.7	642.8	649.3	660.7	669.1	679.5	681.0
27.5°	1859.5	1765.3	1438.0	899.8	622.0	602.1	607.1	611.1	610.1	614.1	615.0
30°	1922.5	1783.6	1342.2	703.4	582.8	567.4	558.5	555.1	555.1	561.5	564.0
32.5°	2006.8	1810.9	1204.8	602.6	564.0	542.7	513.8	500.9	506.0	527.7	532.8
35°	2099.6	1840.2	1018.8	568.5	560.0	531.2	486.6	462.8	463.3	483.7	490.1
37.5°	2200.8	1877.4	815.0	562.0	569.0	531.7	472.2	439.5	426.1	426.1	428.5
40°	2330.2	1915.6	659.7	566.4	587.8	537.7	464.7	421.1	383.4	384.4	386.4
42.5°	2498.9	1948.3	576.3	575.8	610.6	545.6	464.2	396.8	364.1	386.4	406.7
45°	2686.4	1964.7	539.6	584.3	628.9	550.6	456.3	392.8	366.5	433.0	471.7
47.5°	2902.1	1955.3	519.4	587.3	633.4	550.6	447.4	402.2	383.9	501.5	546.6
50°	3138.7	1928.0	499.5	581.3	631.9	549.5	455.8	411.6	390.4	513.3	544.6
52.5°	3417.0	1905.1	478.6	568.5	621.4	544.1	465.7	407.7	370.0	466.8	488.6
55°	3734.4	1911.6	455.3	550.0	605.1	533.7	462.3	391.9	348.7	411.2	424.6
57.5°	4140.2	1988.5	427.6	526.7	582.8	516.4	449.9	384.4	342.3	373.0	380.9
60°	4592.9	2122.4	392.8	503.4	555.1	488.6	440.5	387.9	345.2	370.0	374.0
62.5°	4925.3	2200.3	363.0	469.2	517.3	457.8	428.5	392.3	353.1	380.4	379.4
65°	5015.6	2072.3	325.9	419.1	466.3	425.5	413.7	397.3	356.6	388.8	384.4
66°	4889.1	1934.4	309.5	395.8	440.5	409.7	406.2	396.8	355.2	389.8	382.4
67.5°	4582.1	1651.7	281.2	361.6	399.3	385.9	394.3	392.3	351.2	388.8	378.5
70°	3736.9	1126.9	240.6	301.1	332.4	339.7	371.5	376.4	338.3	371.5	348.7
72.5°	2611.0	686.5	212.8	233.6	268.8	289.7	340.2	354.7	320.9	324.4	302.6
75°	1261.8	364.6	192.9	181.1	208.8	242.0	302.6	324.9	293.6	271.3	263.4
77.5°	393.3	222.7	163.7	145.9	163.7	195.4	253.0	284.7	261.4	227.2	224.2
80°	211.3	163.7	126.0	117.0	129.5	153.2	198.9	237.6	224.6	203.9	182.0
82.5°	139.3	106.2	93.3	90.7	98.7	117.0	147.8	196.9	196.9	174.6	126.9
85°	71.9	65.0	63.9	63.9	68.9	77.8	100.7	151.8	161.7	92.3	76.4
87.5°	35.7	37.2	34.7	36.2	38.7	38.2	48.1	76.4	91.2	56.1	46.6
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)