

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: P200018

Luminaire Tested: **GAP-AF-02-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12934.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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



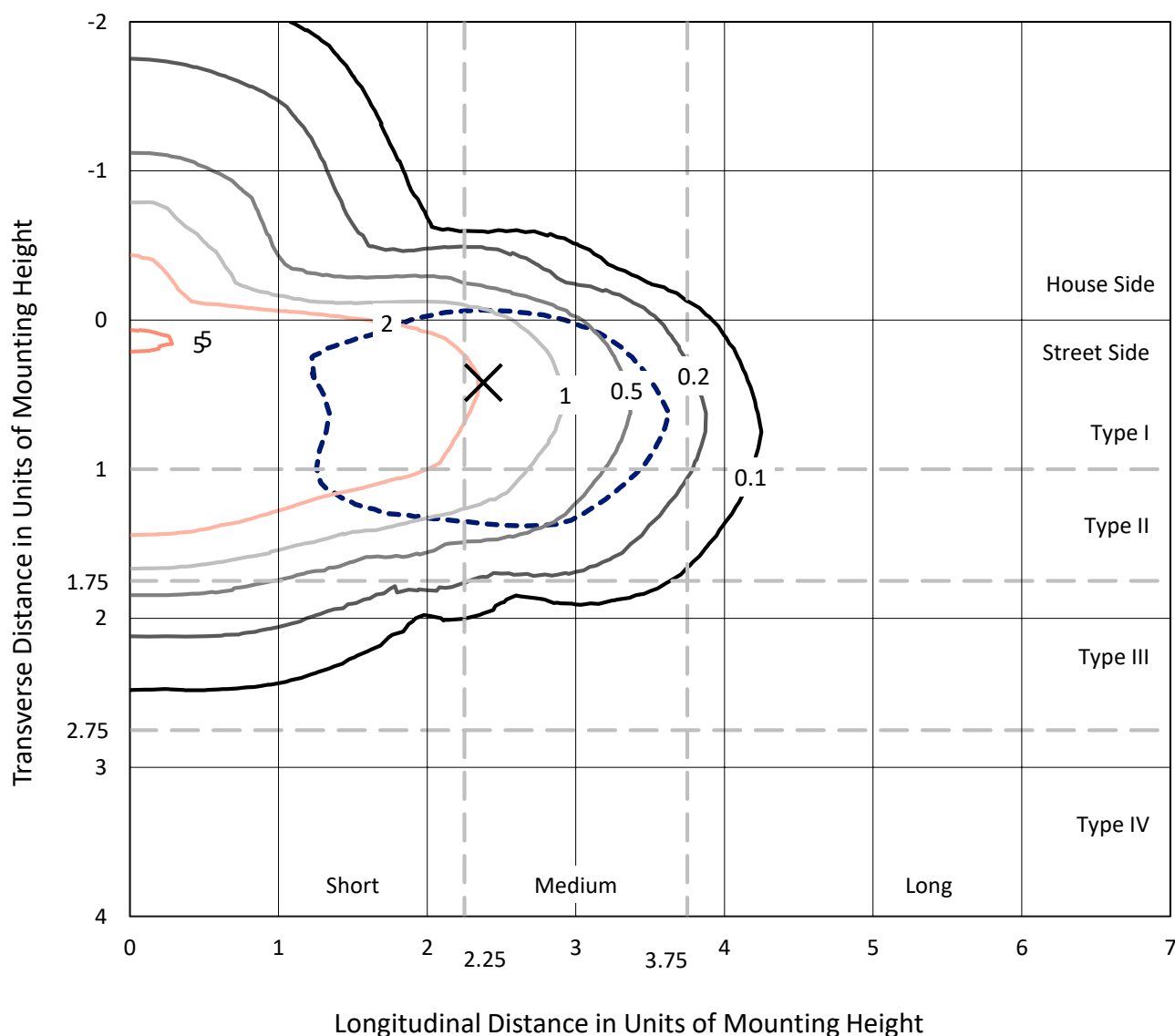
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

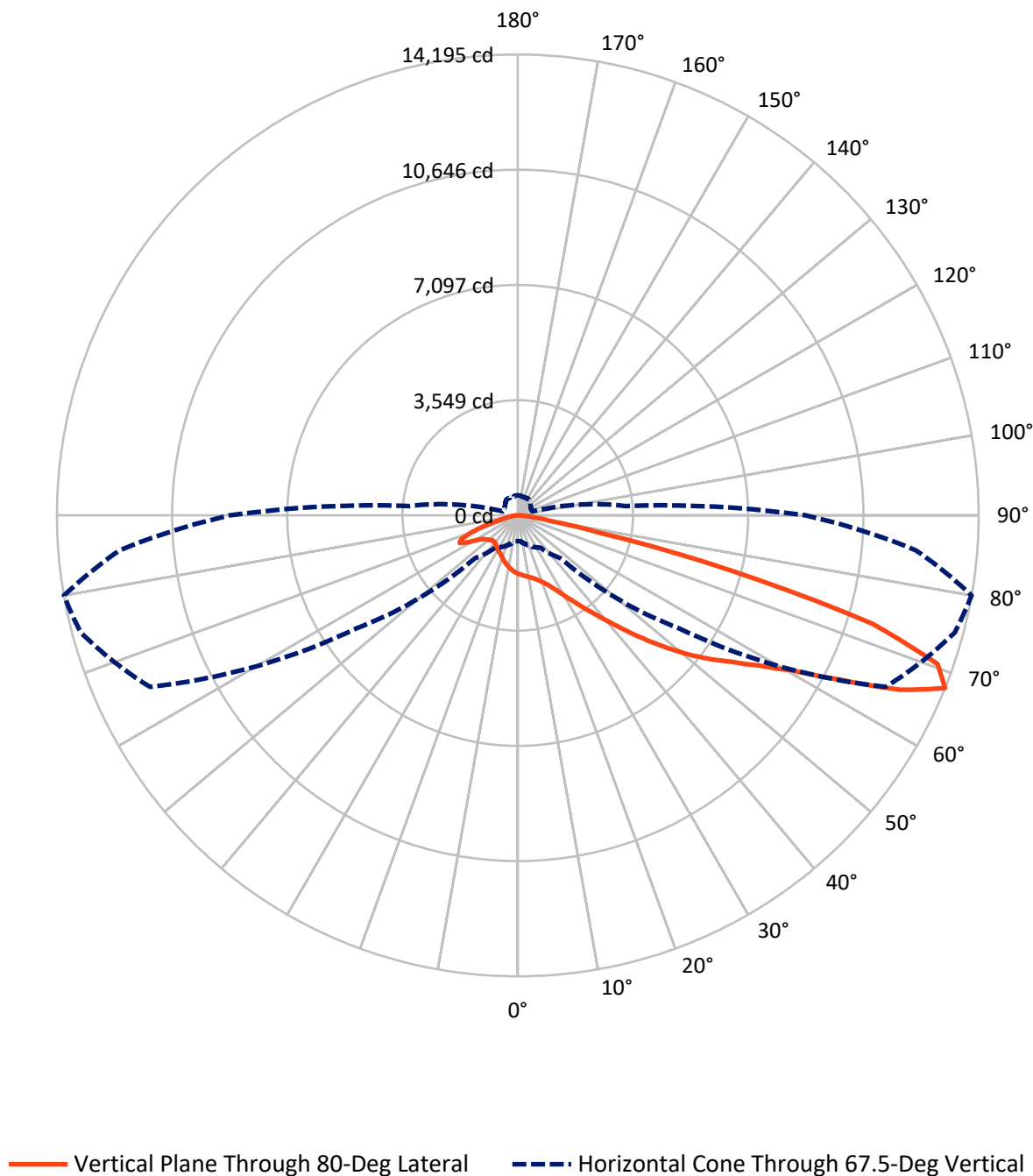


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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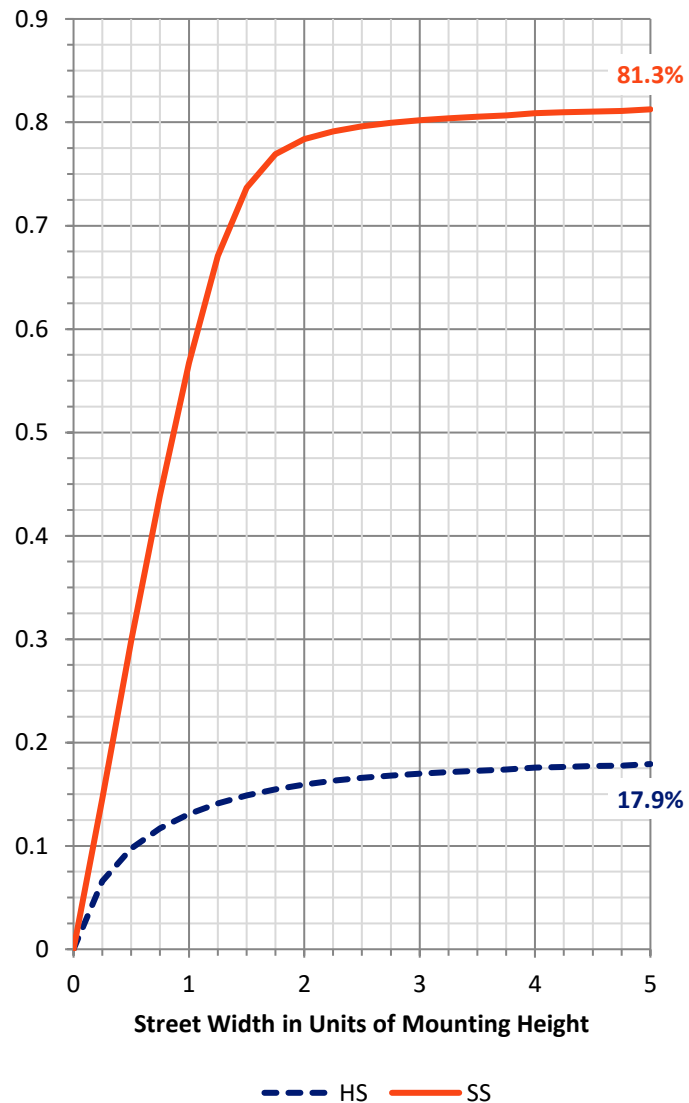
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.0	0.0	2382.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10552.1	0.0	10552.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	12934.1	0.0	12934.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.3
10°-20°	477.5	3.7
20°-30°	790.4	6.1
30°-40°	1292.8	10.0
40°-50°	2087.4	16.1
50°-60°	3013.6	23.3
60°-70°	3325.7	25.7
70°-80°	1532.9	11.9
80°-90°	247.9	1.9
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°	12934.1	100.0
0°-180°	12934.1	100.0

Coefficient of Utilization



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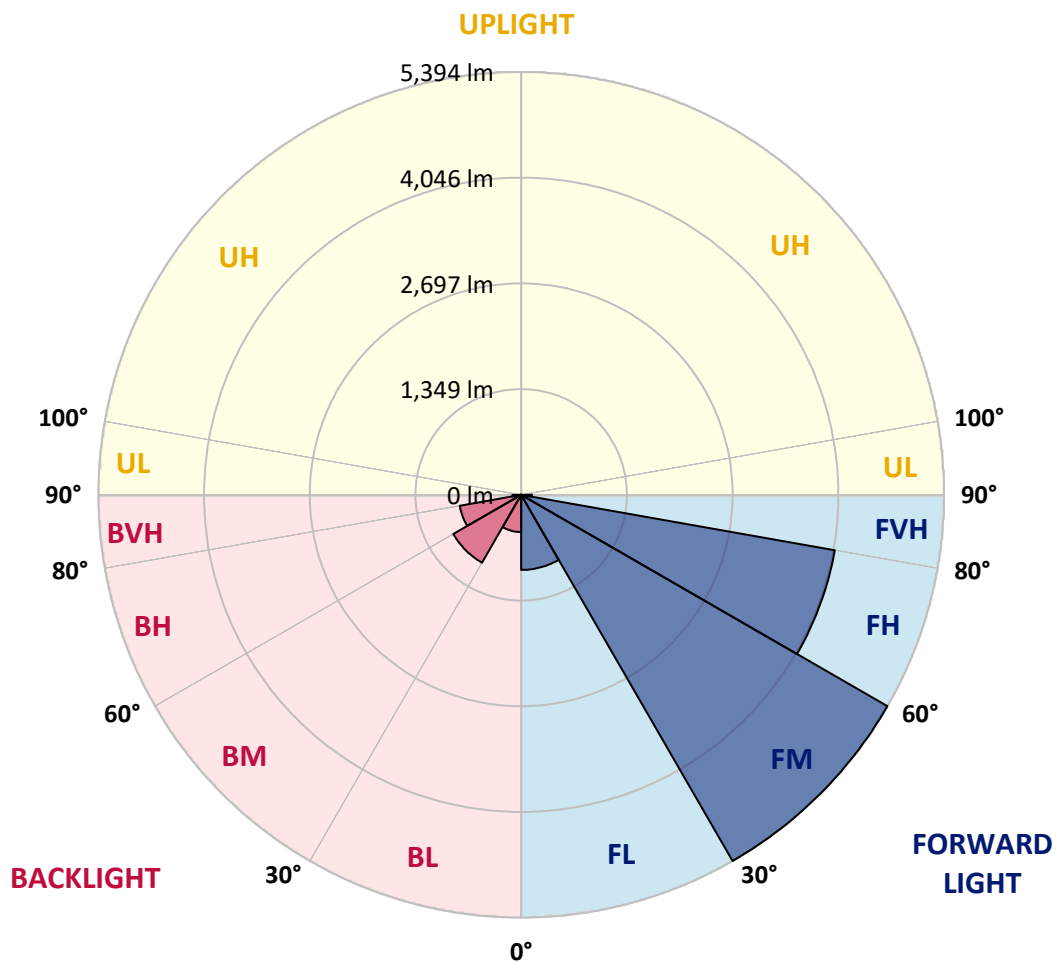
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.4	7.4			
FM	(30°-60°)	5394.5	41.7			
FH	(60°-80°)	4062.9	31.4			G2/5000
FVH	(80°-90°)	136.3	1.1			G2/225
BL	(0°-30°)	475.2	3.7	B1/500		
BM	(30°-60°)	999.4	7.7	B1/1000		
BH	(60°-80°)	795.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	111.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1965.7	1954.2	1956.1	1952.9	1943.4	1926.8	1909.0	1876.5	1842.7	1824.9	1811.0
5°	2129.9	2126.7	2122.3	2112.1	2088.0	2053.5	2010.9	1953.5	1891.9	1859.4	1828.1
7.5°	2252.8	2251.0	2245.2	2238.8	2215.2	2173.9	2109.6	2028.1	1938.3	1893.7	1845.3
10°	2263.0	2266.2	2270.6	2287.9	2291.0	2268.8	2203.2	2104.5	1986.7	1929.4	1867.6
12.5°	2176.5	2183.4	2200.6	2244.5	2291.0	2318.5	2284.7	2184.7	2043.3	1974.0	1895.6
15°	2061.8	2065.6	2086.7	2147.2	2230.5	2315.2	2347.1	2273.2	2116.6	2031.2	1937.6
17.5°	2012.8	2014.7	2029.4	2069.5	2147.2	2268.1	2382.1	2369.4	2206.4	2102.5	1989.2
20°	1988.0	1992.5	2013.4	2052.9	2101.9	2207.6	2387.2	2473.2	2313.3	2191.7	2054.2
22.5°	2058.7	2056.7	2064.4	2084.1	2125.5	2189.1	2383.4	2580.1	2449.6	2306.4	2138.9
25°	2223.5	2230.5	2217.2	2194.9	2208.2	2252.8	2403.7	2696.0	2620.2	2453.4	2249.6
27.5°	2458.6	2451.6	2431.8	2379.5	2352.2	2371.3	2471.2	2820.8	2832.3	2647.1	2396.2
30°	2692.8	2687.1	2668.0	2604.3	2548.3	2532.4	2602.4	2964.1	3085.1	2879.4	2575.7
32.5°	2936.2	2929.7	2911.9	2848.2	2780.7	2743.8	2789.0	3129.6	3383.1	3157.0	2787.1
35°	3236.0	3223.9	3186.3	3097.8	3031.6	3003.0	3024.0	3337.9	3727.0	3485.6	3043.8
37.5°	3518.0	3536.5	3498.4	3376.1	3290.2	3280.0	3303.5	3591.9	4097.5	3853.0	3338.5
40°	3801.4	3804.6	3770.2	3670.2	3581.7	3565.2	3624.4	3900.1	4535.1	4292.4	3697.0
42.5°	4094.4	4100.7	4042.8	3950.4	3885.5	3888.6	3956.2	4261.2	5036.8	4810.0	4109.6
45°	4441.4	4450.9	4387.2	4266.2	4207.0	4326.1	4298.2	4666.1	5586.9	5398.4	4583.3
47.5°	4804.3	4819.0	4770.6	4657.1	4583.3	4747.0	4640.0	5115.1	6179.0	6029.5	5103.6
50°	5002.3	5023.4	5070.5	5062.2	5046.2	5019.0	5021.4	5596.5	6789.7	6686.5	5638.5
52.5°	4896.0	4895.4	5067.3	5276.1	5499.0	5515.6	5486.2	6104.0	7360.2	7329.1	6142.1
55°	4409.4	4442.6	4703.1	5107.5	5716.1	6096.3	6182.9	6685.2	7920.6	7957.0	6653.5
57.5°	3599.5	3627.0	3978.4	4542.0	5423.2	6441.4	7173.6	7530.2	8547.2	8716.6	7334.1
60°	2441.3	2474.4	2847.0	3523.8	4635.0	6249.1	8116.8	9038.2	9297.3	9682.5	8289.3
62.5°	1434.6	1464.5	1768.3	2222.9	3263.3	5355.8	8530.6	11183.3	10488.7	11140.1	9746.2
65°	987.6	1008.0	1155.8	1383.7	1875.2	3607.2	8017.3	12664.5	12321.8	12945.9	11435.5
67.5°	794.7	792.1	909.2	1064.6	1207.4	1859.9	6062.6	12497.0	13934.2	14194.5	12312.3
70°	654.6	652.1	731.6	860.3	964.6	1047.5	3302.3	10545.9	13605.5	13711.3	11504.9
72.5°	547.6	550.1	601.2	696.6	791.5	789.0	1451.2	7418.8	10703.2	11434.2	9171.2
75°	462.2	463.6	497.3	564.8	642.5	635.5	787.0	4019.2	6221.8	6730.5	5083.9
77.5°	393.6	394.8	416.4	454.0	509.3	506.9	574.3	1736.4	2595.5	2563.5	1739.0
80°	350.8	350.8	361.0	368.1	398.6	387.1	426.0	834.2	1097.2	1013.1	694.1
82.5°	275.2	276.3	338.7	336.2	313.9	299.3	299.3	491.5	581.4	537.4	406.2
85°	154.7	154.0	218.4	263.7	276.3	210.8	208.9	275.2	316.5	278.9	196.7
87.5°	66.2	67.5	101.3	117.1	156.7	131.2	129.3	142.0	161.0	139.5	91.0
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°	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1797.6	1781.0	1744.8	1699.5	1658.8	1632.0	1607.9	1572.8	1574.7	1550.5	1532.7
5°	1796.3	1762.0	1677.9	1577.9	1481.8	1412.2	1360.1	1313.0	1301.5	1279.2	1265.9
7.5°	1797.6	1741.5	1600.2	1440.4	1321.3	1233.4	1188.8	1163.9	1158.2	1150.6	1151.3
10°	1802.0	1723.0	1514.9	1311.7	1186.9	1128.9	1118.2	1125.8	1134.6	1137.3	1137.9
12.5°	1812.2	1706.5	1421.3	1197.2	1102.9	1085.1	1103.5	1129.6	1146.7	1155.1	1154.5
15°	1835.1	1693.7	1331.5	1107.4	1056.4	1066.0	1100.4	1137.3	1162.1	1173.6	1174.2
17.5°	1859.9	1675.3	1239.1	1038.5	1022.0	1046.1	1088.9	1132.2	1162.7	1175.4	1178.1
20°	1892.5	1652.3	1142.3	986.9	989.6	1016.8	1057.0	1100.4	1134.1	1144.9	1150.0
22.5°	1935.1	1627.5	1057.6	945.0	952.6	973.6	1004.7	1042.4	1071.7	1076.8	1081.2
25°	1992.5	1600.7	990.1	906.8	909.9	922.0	943.0	965.3	985.7	979.9	984.4
27.5°	2069.5	1577.9	939.8	871.7	866.0	868.5	879.3	886.3	897.2	881.2	883.2
30°	2159.8	1553.0	901.1	841.2	825.2	820.7	823.4	827.1	835.4	813.8	810.6
32.5°	2265.0	1523.1	864.7	814.4	792.1	783.2	784.5	794.7	826.5	813.1	806.2
35°	2387.2	1489.4	826.5	785.1	769.8	757.0	755.8	787.6	882.6	874.3	867.8
37.5°	2530.5	1455.7	788.3	752.0	753.3	739.2	734.8	771.2	893.4	860.9	856.5
40°	2712.6	1437.8	755.8	717.0	732.9	731.0	722.1	740.6	822.0	762.8	755.2
42.5°	2938.0	1440.4	731.6	679.4	708.6	729.1	715.1	715.7	745.0	700.5	693.5
45°	3216.3	1470.3	714.4	649.4	681.3	727.1	712.5	702.3	704.9	681.3	677.5
47.5°	3541.0	1532.1	702.3	624.6	655.2	720.1	712.0	698.5	692.8	680.0	676.9
50°	3902.0	1621.9	693.5	601.2	631.6	708.6	712.5	694.7	688.4	683.2	681.3
52.5°	4256.7	1724.3	680.0	580.7	613.2	694.7	714.4	690.8	683.9	680.0	678.2
55°	4652.2	1852.3	659.7	563.6	597.8	676.9	714.4	685.2	677.5	678.2	677.5
57.5°	5186.4	2059.3	635.5	548.9	579.4	655.2	702.3	678.8	669.2	669.9	670.6
60°	6021.2	2424.1	606.2	534.3	556.5	629.8	685.8	664.8	655.2	657.7	658.4
62.5°	7248.8	2959.7	568.0	512.5	532.3	602.3	662.8	647.0	637.4	643.7	643.7
65°	8524.9	3432.2	520.8	485.2	506.9	572.4	634.2	624.6	615.1	629.8	629.2
67.5°	8868.1	3326.4	473.7	455.3	481.4	539.3	599.9	594.7	589.7	615.1	613.8
70°	7877.9	2670.6	430.5	424.7	453.3	503.6	562.9	562.9	559.7	578.8	574.3
72.5°	6002.0	1893.7	389.1	392.2	421.5	464.8	522.8	527.2	522.1	531.6	527.8
75°	3213.1	1083.8	347.7	356.6	382.1	425.3	478.2	482.7	479.4	478.9	480.7
77.5°	1067.8	529.8	304.4	318.4	340.7	384.6	431.7	438.6	431.1	429.8	429.2
80°	475.6	333.0	256.6	275.2	294.8	338.1	382.7	388.4	380.1	391.5	377.0
82.5°	305.6	219.1	205.6	226.0	245.2	291.6	333.7	334.9	327.3	380.1	324.1
85°	148.4	135.6	154.7	173.1	189.8	229.2	276.3	277.0	257.9	235.0	226.7
87.5°	73.9	79.0	103.1	119.7	128.0	157.3	201.2	197.4	189.1	172.0	158.5
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)