

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: P157347

Luminaire Tested: **VST-F04-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157347
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F04-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10838.7 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2
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

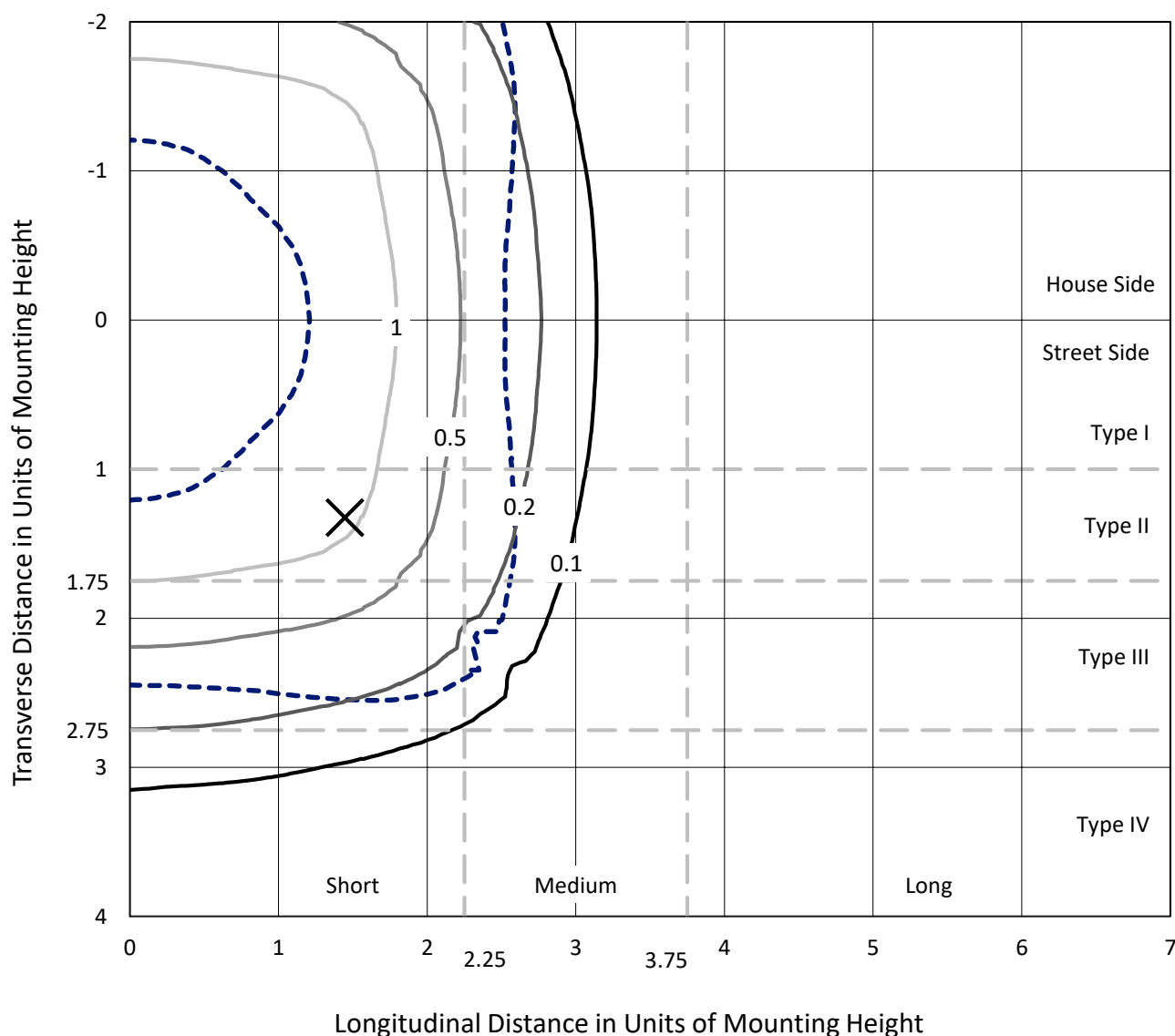


REPORT NUMBER: P157347

CATALOG NUMBER: VST-F04-LED-E-U-5MQ-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

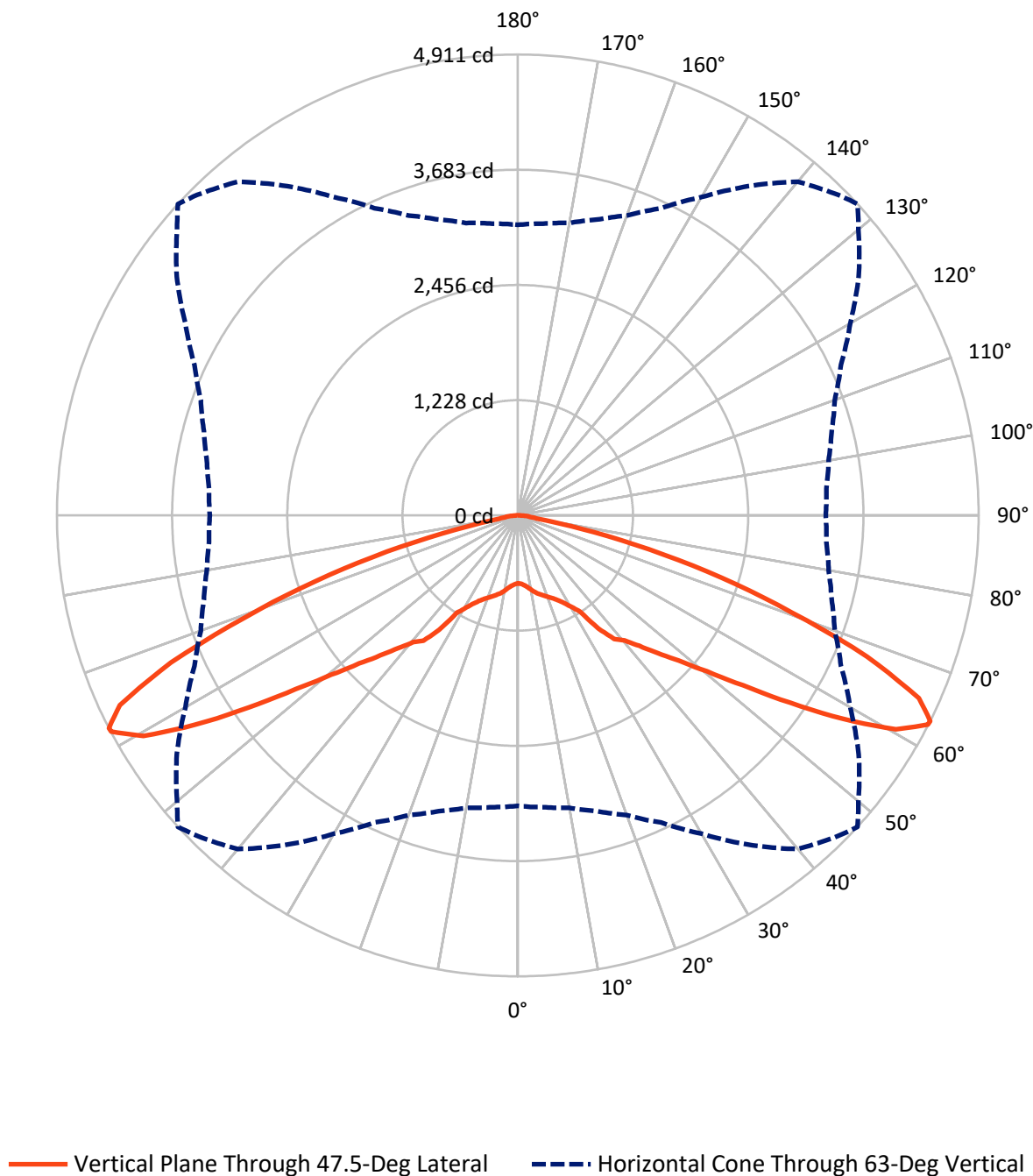


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157347

CATALOG NUMBER: VST-F04-LED-E-U-5MQ-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P157347

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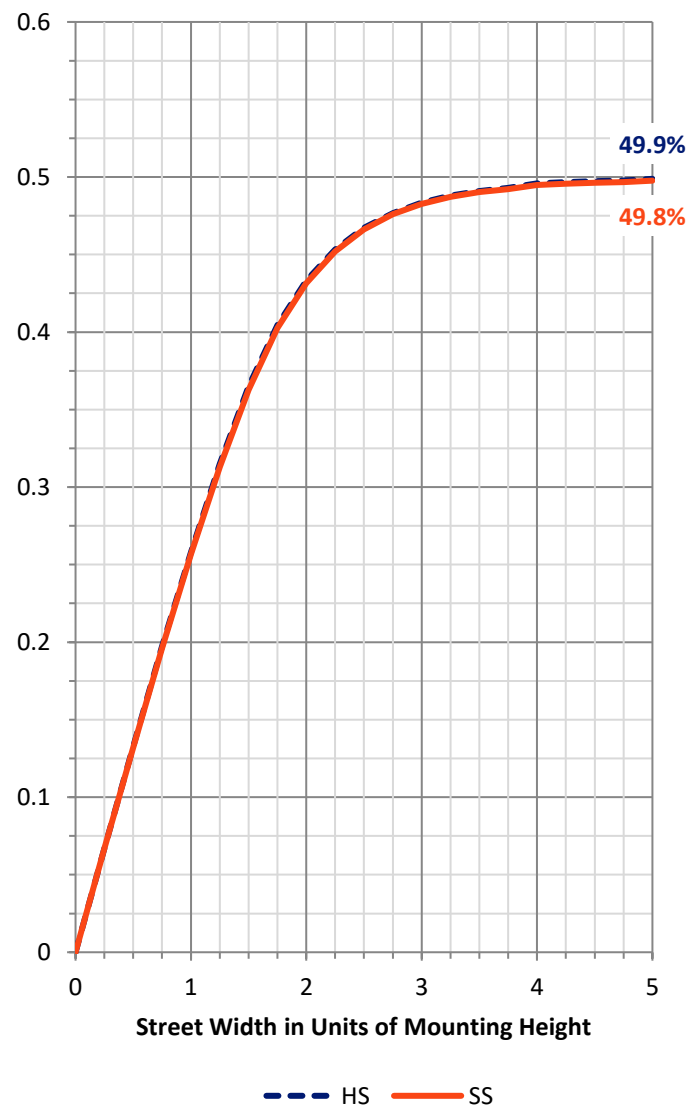
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5419.4	0.0	5419.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5419.4	0.0	5419.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10838.7	0.0	10838.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	0.7
10°-20°	247.0	2.3
20°-30°	472.4	4.4
30°-40°	903.7	8.3
40°-50°	1563.8	14.4
50°-60°	2808.5	25.9
60°-70°	3415.1	31.5
70°-80°	1233.4	11.4
80°-90°	122.2	1.1
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°	10838.7	100.0
0°-180°	10838.7	100.0

Coefficient of Utilization



REPORT NUMBER: P157347

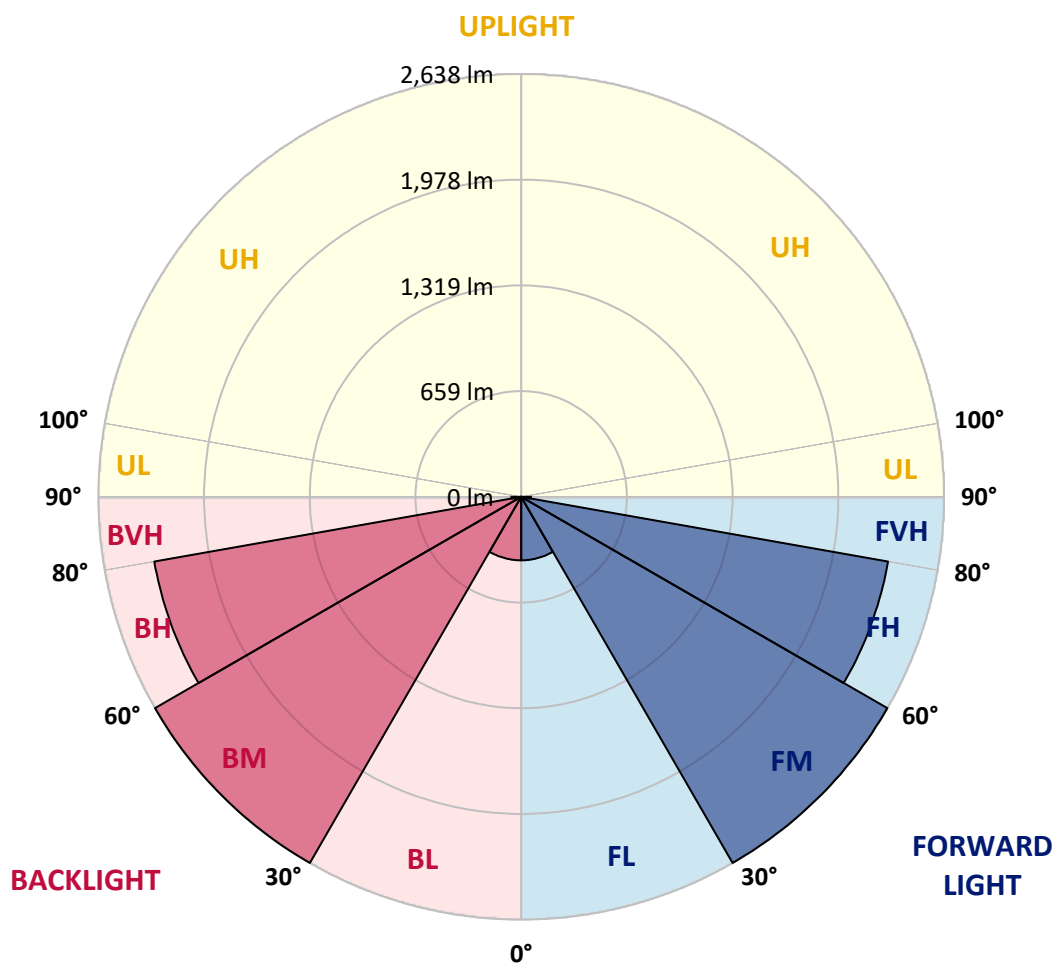
CATALOG NUMBER: VST-F04-LED-E-U-5MQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.1	3.7			
FM	(30°-60°)	2638.0	24.3			
FH	(60°-80°)	2324.2	21.4			G2/5000
FVH	(80°-90°)	61.1	0.6			G1/100
BL	(0°-30°)	396.1	3.7	B1/500		
BM	(30°-60°)	2638.0	24.3	B3/5000		
BH	(60°-80°)	2324.2	21.4	B3/2500		G2/5000
BVH	(80°-90°)	61.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P157347

CATALOG NUMBER: VST-F04-LED-E-U-5MQ-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7
2.5°	728.5	727.1	727.8	728.5	727.8	727.1	727.1	727.1	728.5	727.1	730.5
5°	742.7	741.4	742.0	742.0	742.0	740.7	740.7	740.7	740.0	740.7	748.1
7.5°	769.8	767.8	767.1	768.5	767.1	766.4	765.8	765.8	764.4	764.4	773.9
10°	802.4	799.6	801.0	801.7	799.6	798.3	798.3	798.3	796.3	795.6	807.8
12.5°	838.3	836.9	836.9	835.6	834.9	833.5	832.8	833.5	830.8	830.8	843.0
15°	872.8	870.1	870.8	868.8	867.4	866.1	865.4	864.7	863.3	863.3	870.8
17.5°	904.7	902.6	902.0	899.9	897.9	895.9	894.5	893.8	891.8	891.8	898.6
20°	937.9	935.8	934.5	931.1	927.7	925.7	923.0	921.6	918.9	919.6	927.0
22.5°	975.8	972.4	969.7	967.0	960.9	956.9	953.5	950.8	949.4	949.4	959.6
25°	1026.7	1024.6	1020.6	1011.7	1004.3	998.2	992.8	990.1	987.4	986.0	1001.6
27.5°	1089.0	1087.0	1081.5	1072.7	1062.6	1052.4	1046.3	1041.6	1038.2	1036.1	1058.5
30°	1171.7	1168.3	1163.5	1149.3	1140.5	1124.9	1118.1	1111.4	1103.9	1105.9	1132.4
32.5°	1333.6	1328.9	1314.0	1298.4	1271.3	1250.3	1228.6	1212.3	1196.7	1194.7	1223.2
35°	1480.7	1478.7	1475.9	1465.1	1454.9	1442.1	1431.9	1415.0	1400.7	1397.3	1477.3
37.5°	1560.0	1564.7	1560.7	1559.3	1559.3	1565.4	1584.4	1603.3	1616.9	1625.0	1669.8
40°	1681.3	1681.3	1676.5	1673.8	1668.4	1676.5	1684.7	1698.9	1705.0	1705.7	1751.1
42.5°	1818.8	1819.5	1814.8	1806.6	1803.9	1811.4	1822.2	1835.8	1843.9	1845.9	1898.8
45°	1972.0	1970.0	1965.9	1963.2	1965.2	1972.0	1984.9	2011.3	2023.5	2033.0	2090.6
47.5°	2138.0	2151.6	2140.1	2142.1	2142.1	2163.1	2192.2	2213.9	2233.6	2251.9	2312.9
50°	2355.5	2357.6	2359.6	2365.7	2369.8	2397.6	2434.2	2459.9	2488.4	2512.1	2611.7
52.5°	2646.3	2642.2	2652.4	2659.1	2682.2	2697.1	2758.1	2790.6	2829.9	2860.4	3006.1
55°	2993.9	2991.9	3006.8	3012.2	3042.7	3079.3	3147.1	3218.2	3285.3	3322.6	3521.8
57.5°	3243.3	3248.7	3274.5	3310.4	3370.0	3447.9	3548.9	3706.1	3833.5	3874.2	4093.7
60°	3298.2	3315.8	3354.4	3426.3	3528.6	3673.6	3872.2	4112.7	4345.8	4423.8	4629.8
62.5°	3144.3	3164.7	3221.6	3307.7	3441.2	3656.0	3942.6	4282.1	4628.4	4801.9	4905.6
63°	3095.6	3120.6	3163.3	3262.9	3398.5	3610.6	3915.5	4281.5	4640.6	4829.7	4911.0
65°	2866.5	2871.2	2934.9	3034.6	3187.0	3407.3	3714.9	4137.8	4536.3	4754.5	4698.2
67.5°	2466.7	2486.3	2539.9	2640.2	2788.6	3017.6	3351.7	3742.7	4093.1	4267.2	4015.8
70°	1993.0	1991.6	2058.1	2138.7	2269.5	2470.8	2763.5	3116.6	3394.4	3521.1	3100.3
72.5°	1423.8	1388.5	1437.3	1526.8	1633.8	1794.4	2026.2	2300.7	2549.4	2659.1	2266.8
75°	648.5	639.0	682.4	771.2	879.6	1022.6	1213.0	1450.2	1688.7	1817.5	1444.1
77.5°	218.2	220.9	237.9	269.7	328.0	399.8	518.4	670.2	863.3	990.7	677.7
80°	146.4	150.4	155.9	160.6	167.4	178.2	204.0	243.3	302.9	366.6	214.1
82.5°	119.9	124.7	136.9	142.3	146.4	149.8	151.8	154.5	154.5	155.9	135.5
85°	86.1	94.2	110.5	120.6	124.7	127.4	130.8	134.9	128.8	123.3	105.0
87.5°	29.8	40.7	59.6	65.7	70.5	71.2	75.9	84.0	80.0	65.1	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157347

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7
2.5°	727.1	726.5	727.1	727.8	727.8	727.8	728.5	729.2	729.2
5°	740.7	741.4	740.7	741.4	741.4	742.0	742.0	743.4	743.4
7.5°	763.7	765.1	764.4	765.8	765.8	767.1	766.4	768.5	768.5
10°	794.9	796.3	797.6	798.3	797.6	799.0	800.3	801.0	800.3
12.5°	830.1	830.8	830.1	831.5	831.5	832.8	832.8	834.9	834.9
15°	862.7	862.0	861.3	863.3	864.7	865.4	866.7	868.8	866.7
17.5°	891.8	892.5	891.1	893.2	895.9	897.9	899.3	902.0	901.3
20°	920.9	919.6	920.9	924.3	927.0	929.8	932.5	936.5	935.8
22.5°	949.4	950.8	954.1	956.9	961.6	965.7	969.1	974.5	976.5
25°	989.4	989.4	994.8	998.2	1005.0	1010.4	1017.8	1023.9	1027.3
27.5°	1040.2	1040.2	1046.3	1053.8	1063.9	1073.4	1081.5	1089.7	1088.3
30°	1109.3	1112.7	1118.1	1127.6	1141.2	1152.7	1163.5	1171.7	1172.4
32.5°	1200.1	1204.2	1220.5	1244.9	1273.3	1295.0	1311.3	1330.9	1333.6
35°	1406.1	1416.3	1437.3	1457.0	1468.5	1481.4	1489.5	1490.2	1491.5
37.5°	1623.0	1605.4	1589.1	1574.2	1567.4	1566.1	1566.1	1568.8	1570.1
40°	1702.3	1693.5	1686.0	1676.5	1679.2	1678.6	1683.3	1687.4	1690.1
42.5°	1837.8	1831.0	1824.3	1812.1	1818.8	1816.8	1823.6	1829.7	1833.1
45°	2026.9	2005.9	1991.0	1971.3	1978.1	1974.0	1974.0	1981.5	1982.8
47.5°	2235.6	2211.2	2180.7	2156.3	2148.2	2140.7	2147.5	2147.5	2140.1
50°	2485.7	2456.5	2420.6	2381.3	2367.7	2360.3	2363.0	2366.4	2345.4
52.5°	2825.2	2792.6	2741.8	2682.2	2669.3	2663.2	2661.9	2657.1	2651.7
55°	3285.3	3224.3	3162.0	3083.4	3059.6	3052.9	3053.5	3048.1	3061.0
57.5°	3828.1	3738.7	3595.0	3499.4	3442.5	3420.8	3401.2	3393.0	3393.7
60°	4365.5	4183.2	3968.4	3801.7	3682.4	3606.5	3546.9	3513.7	3504.2
62.5°	4711.8	4425.1	4102.6	3832.2	3636.3	3511.0	3416.8	3357.1	3338.2
63°	4738.9	4435.3	4090.4	3800.3	3594.3	3462.8	3363.9	3302.2	3281.9
65°	4679.9	4333.0	3931.1	3585.5	3359.8	3214.1	3107.1	3048.8	3033.2
67.5°	4221.8	3933.1	3523.8	3166.7	2939.0	2791.3	2668.6	2613.1	2595.4
70°	3434.4	3236.5	2901.1	2596.1	2384.0	2241.7	2117.7	2071.6	2070.9
72.5°	2546.0	2289.1	2089.2	1865.6	1680.6	1567.4	1459.7	1408.2	1382.4
75°	1684.0	1408.9	1185.2	996.8	812.5	710.9	589.6	537.4	506.9
77.5°	848.4	628.9	450.6	312.4	242.6	199.2	182.3	173.5	172.8
80°	282.6	212.1	182.3	170.8	167.4	168.1	166.0	162.6	158.6
82.5°	156.5	164.7	166.0	161.3	161.3	158.6	155.9	143.0	136.2
85°	134.2	147.7	149.1	146.4	145.7	141.6	136.9	119.3	109.1
87.5°	84.0	96.9	94.9	84.7	93.5	87.4	82.7	53.5	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)