

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: P157368

Luminaire Tested: **VST-E07-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157368
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-E07-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18898.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

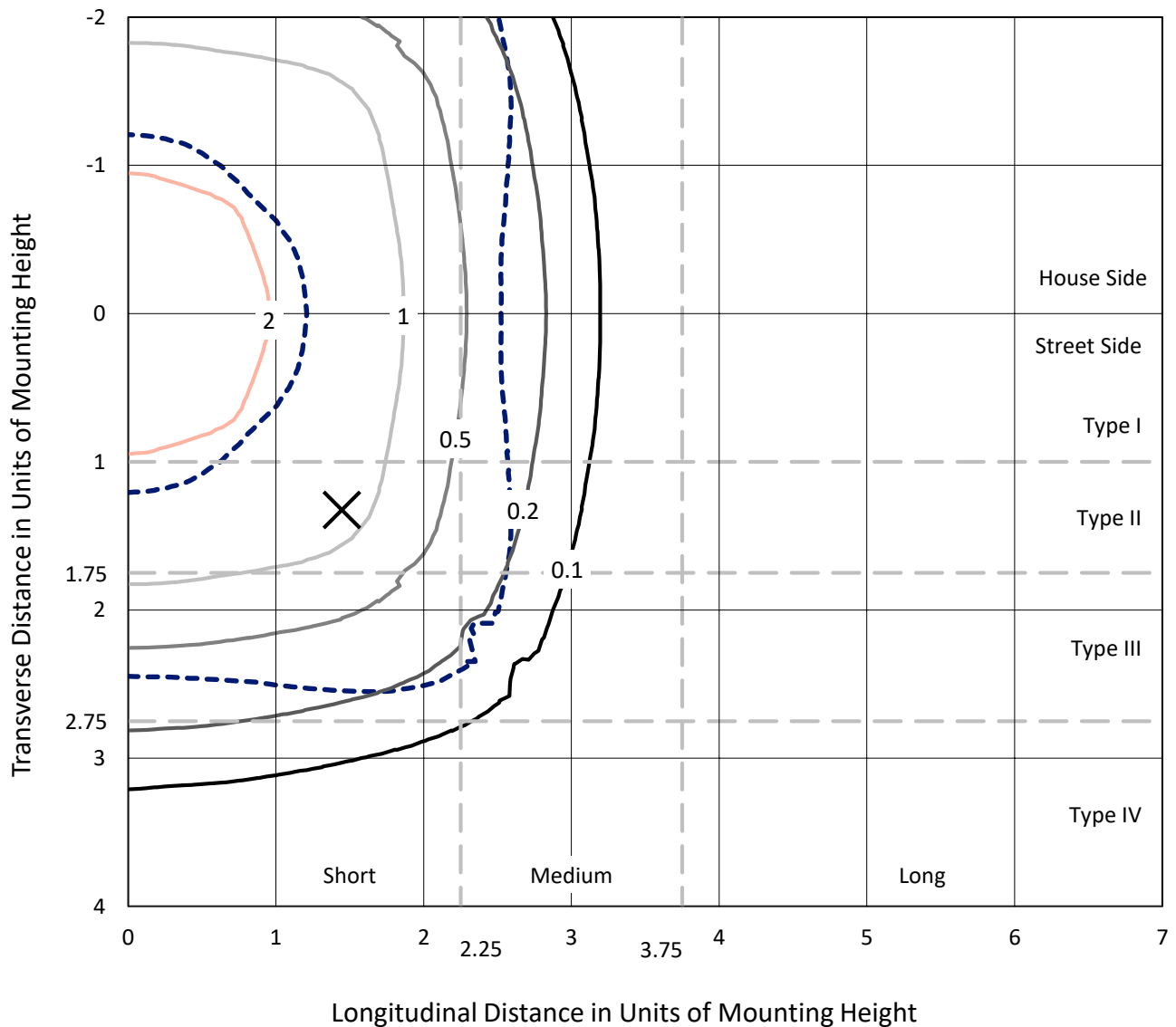
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

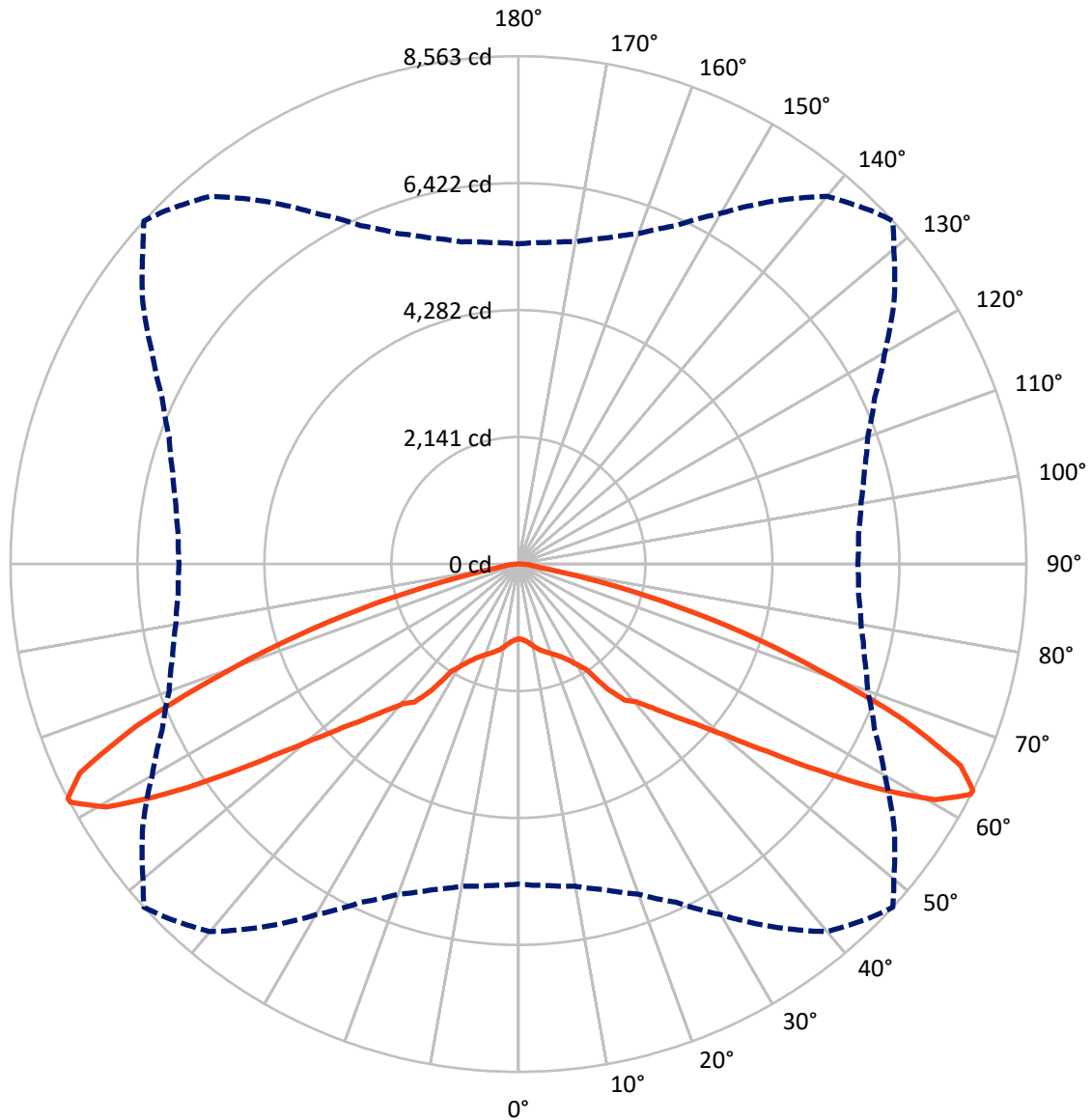
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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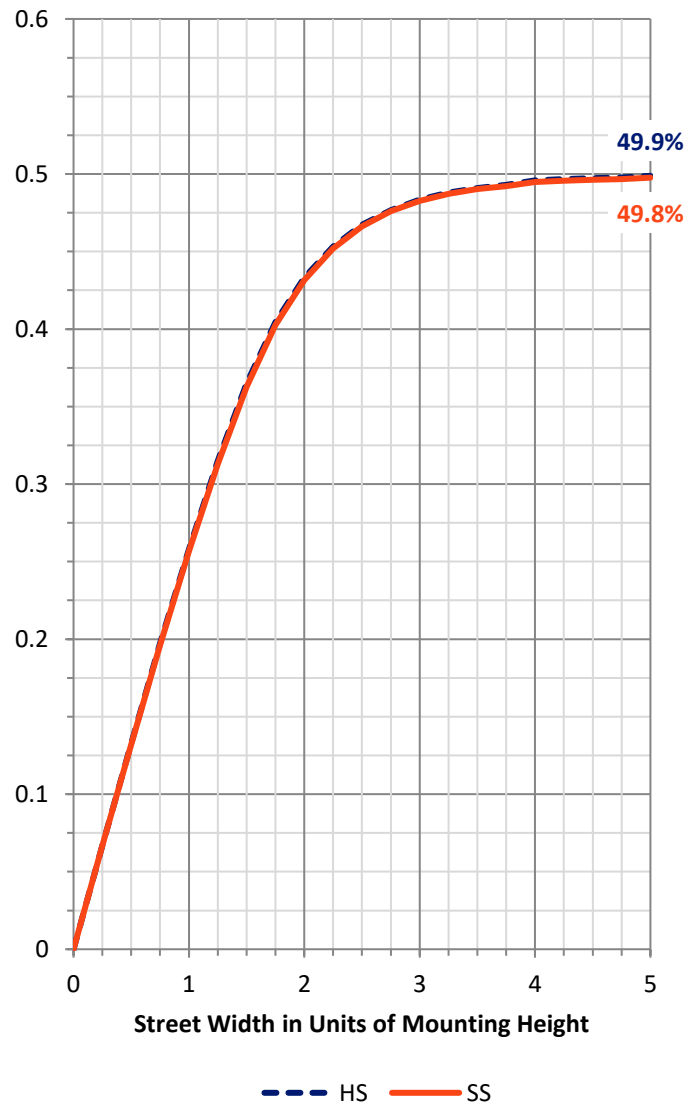
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9449.3	0.0	9449.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9449.3	0.0	9449.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18898.7	0.0	18898.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	0.7
10°-20°	430.7	2.3
20°-30°	823.8	4.4
30°-40°	1575.8	8.3
40°-50°	2726.6	14.4
50°-60°	4896.9	25.9
60°-70°	5954.7	31.5
70°-80°	2150.5	11.4
80°-90°	213.0	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°	18898.7	100.0
0°-180°	18898.7	100.0

Coefficient of Utilization



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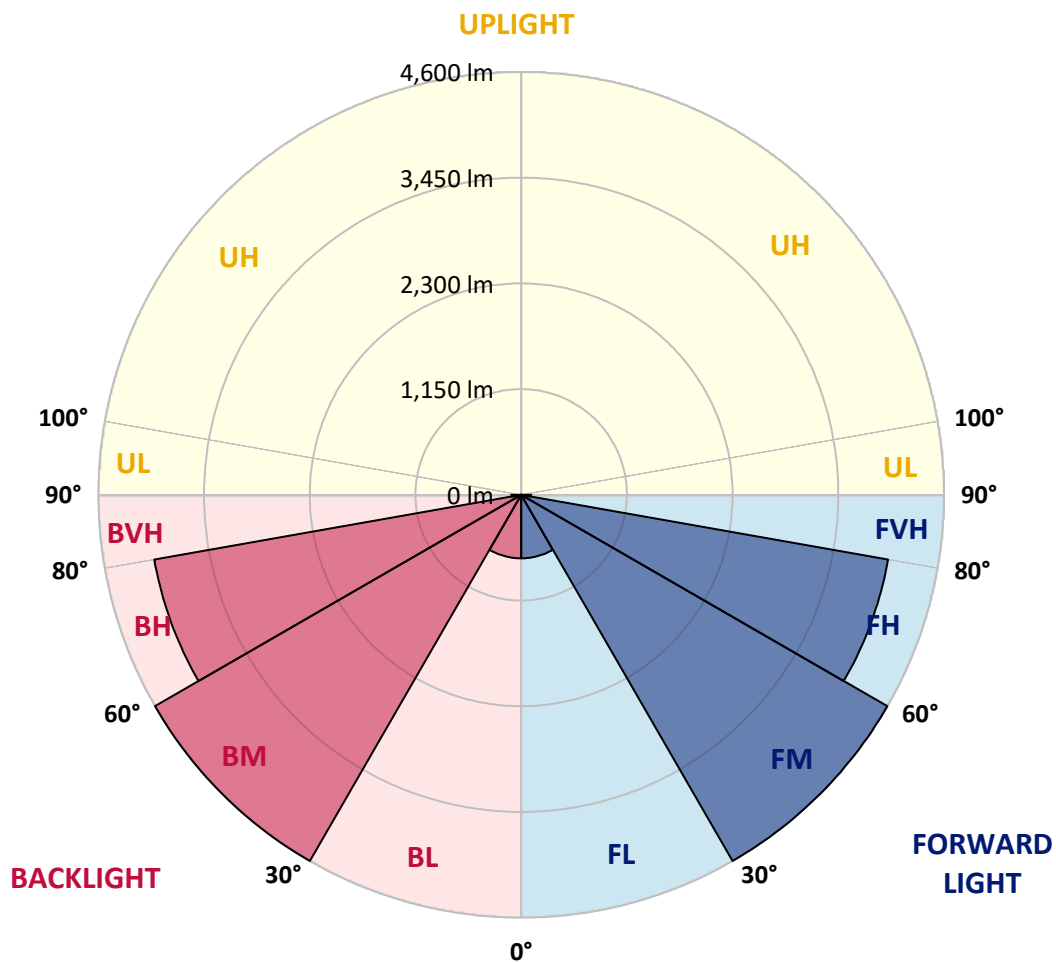
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.6	3.7			
FM	(30°-60°)	4599.7	24.3			
FH	(60°-80°)	4052.6	21.4			G2/5000
FVH	(80°-90°)	106.5	0.6			G2/225
BL	(0°-30°)	690.6	3.7	B2/1000		
BM	(30°-60°)	4599.7	24.3	B3/5000		
BH	(60°-80°)	4052.6	21.4	B4/5000		G2/5000
BVH	(80°-90°)	106.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9
2.5°	1270.2	1267.8	1269.0	1270.2	1269.0	1267.8	1267.8	1267.8	1270.2	1267.8	1267.8	1273.8
5°	1295.0	1292.7	1293.8	1293.8	1293.8	1291.5	1291.5	1291.5	1290.3	1291.5	1291.5	1304.5
7.5°	1342.3	1338.7	1337.6	1339.9	1337.6	1336.4	1335.2	1335.2	1332.8	1332.8	1332.8	1349.4
10°	1399.0	1394.3	1396.6	1397.8	1394.3	1391.9	1391.9	1391.9	1388.4	1387.2	1387.2	1408.5
12.5°	1461.6	1459.3	1459.3	1456.9	1455.7	1453.4	1452.2	1453.4	1448.6	1448.6	1448.6	1469.9
15°	1521.9	1517.2	1518.3	1514.8	1512.4	1510.1	1508.9	1507.7	1505.3	1505.3	1505.3	1518.3
17.5°	1577.4	1573.9	1572.7	1569.1	1565.6	1562.1	1559.7	1558.5	1555.0	1555.0	1555.0	1566.8
20°	1635.3	1631.8	1629.4	1623.5	1617.6	1614.0	1609.3	1607.0	1602.2	1603.4	1603.4	1616.4
22.5°	1701.5	1695.6	1690.9	1686.1	1675.5	1668.4	1662.5	1657.8	1655.4	1655.4	1655.4	1673.1
25°	1790.1	1786.6	1779.5	1764.1	1751.1	1740.5	1731.0	1726.3	1721.6	1719.2	1719.2	1746.4
27.5°	1898.8	1895.3	1885.8	1870.5	1852.7	1835.0	1824.4	1816.1	1810.2	1806.6	1806.6	1845.6
30°	2043.0	2037.1	2028.8	2004.0	1988.6	1961.4	1949.6	1937.8	1924.8	1928.4	1928.4	1974.4
32.5°	2325.4	2317.1	2291.1	2263.9	2216.7	2180.0	2142.2	2113.9	2086.7	2083.1	2083.1	2132.8
35°	2581.8	2578.2	2573.5	2554.6	2536.9	2514.4	2496.7	2467.2	2442.3	2436.4	2436.4	2575.9
37.5°	2720.0	2728.3	2721.2	2718.8	2718.8	2729.5	2762.6	2795.6	2819.3	2833.4	2833.4	2911.4
40°	2931.5	2931.5	2923.2	2918.5	2909.1	2923.2	2937.4	2962.2	2972.9	2974.1	2974.1	3053.2
42.5°	3171.4	3172.6	3164.3	3150.1	3145.4	3158.4	3177.3	3200.9	3215.1	3218.6	3218.6	3310.8
45°	3438.4	3434.9	3427.8	3423.1	3426.6	3438.4	3460.9	3507.0	3528.2	3544.8	3544.8	3645.2
47.5°	3727.9	3751.5	3731.5	3735.0	3735.0	3771.6	3822.4	3860.2	3894.5	3926.4	3926.4	4032.8
50°	4107.2	4110.7	4114.3	4124.9	4132.0	4180.5	4244.3	4289.2	4338.8	4380.1	4380.1	4553.8
52.5°	4614.1	4607.0	4624.7	4636.5	4676.7	4702.7	4809.1	4865.8	4934.3	4987.5	4987.5	5241.5
55°	5220.3	5216.7	5242.7	5252.2	5305.3	5369.1	5487.3	5611.4	5728.3	5793.3	5793.3	6140.7
57.5°	5655.1	5664.5	5709.4	5772.1	5876.0	6011.9	6188.0	6462.1	6684.2	6755.1	6755.1	7138.0
60°	5750.8	5781.5	5848.9	5974.1	6152.5	6405.4	6751.6	7171.1	7577.5	7713.4	7713.4	8072.6
62.5°	5482.6	5518.0	5617.3	5767.3	6000.1	6374.7	6874.5	7466.5	8070.2	8372.7	8372.7	8553.5
63°	5397.5	5441.2	5515.6	5689.3	5925.7	6295.5	6827.2	7465.3	8091.5	8421.2	8421.2	8563.0
65°	4998.1	5006.4	5117.5	5291.1	5557.0	5941.0	6477.5	7214.8	7909.5	8290.0	8290.0	8191.9
67.5°	4301.0	4335.2	4428.6	4603.5	4862.2	5261.6	5844.1	6525.9	7136.8	7440.5	7440.5	7002.1
70°	3475.0	3472.7	3588.5	3729.1	3957.1	4308.1	4818.5	5434.1	5918.6	6139.5	6139.5	5405.8
72.5°	2482.5	2421.1	2506.1	2662.1	2848.8	3128.8	3532.9	4011.5	4445.1	4636.5	4636.5	3952.4
75°	1130.8	1114.2	1189.9	1344.6	1533.7	1783.0	2115.0	2528.6	2944.5	3169.0	3169.0	2518.0
77.5°	380.5	385.2	414.7	470.3	571.9	697.1	903.9	1168.6	1505.3	1727.5	1727.5	1181.6
80°	255.2	262.3	271.8	280.0	291.9	310.8	355.7	424.2	528.2	639.2	639.2	373.4
82.5°	209.1	217.4	238.7	248.1	255.2	261.1	264.7	269.4	269.4	271.8	271.8	236.3
85°	150.1	164.2	192.6	210.3	217.4	222.1	228.0	235.1	224.5	215.0	215.0	183.1
87.5°	52.0	70.9	104.0	114.6	122.9	124.1	132.3	146.5	139.4	113.4	113.4	55.5
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9
2.5°	1267.8	1266.7	1267.8	1269.0	1269.0	1269.0	1270.2	1271.4	1271.4
5°	1291.5	1292.7	1291.5	1292.7	1292.7	1293.8	1293.8	1296.2	1296.2
7.5°	1331.6	1334.0	1332.8	1335.2	1335.2	1337.6	1336.4	1339.9	1339.9
10°	1386.0	1388.4	1390.7	1391.9	1390.7	1393.1	1395.5	1396.6	1395.5
12.5°	1447.4	1448.6	1447.4	1449.8	1449.8	1452.2	1452.2	1455.7	1455.7
15°	1504.2	1503.0	1501.8	1505.3	1507.7	1508.9	1511.3	1514.8	1511.3
17.5°	1555.0	1556.2	1553.8	1557.3	1562.1	1565.6	1568.0	1572.7	1571.5
20°	1605.8	1603.4	1605.8	1611.7	1616.4	1621.1	1625.9	1633.0	1631.8
22.5°	1655.4	1657.8	1663.7	1668.4	1676.7	1683.8	1689.7	1699.1	1702.7
25°	1725.1	1725.1	1734.6	1740.5	1752.3	1761.7	1774.7	1785.4	1791.3
27.5°	1813.7	1813.7	1824.4	1837.4	1855.1	1871.6	1885.8	1900.0	1897.6
30°	1934.3	1940.2	1949.6	1966.2	1989.8	2009.9	2028.8	2043.0	2044.1
32.5°	2092.6	2099.7	2128.0	2170.6	2220.2	2258.0	2286.4	2320.6	2325.4
35°	2451.8	2469.5	2506.1	2540.4	2560.5	2582.9	2597.1	2598.3	2600.7
37.5°	2829.9	2799.2	2770.8	2744.8	2733.0	2730.6	2730.6	2735.4	2737.7
40°	2968.1	2952.8	2939.8	2923.2	2928.0	2926.8	2935.1	2942.2	2946.9
42.5°	3204.5	3192.6	3180.8	3159.6	3171.4	3167.8	3179.7	3190.3	3196.2
45°	3534.1	3497.5	3471.5	3437.2	3449.1	3442.0	3442.0	3455.0	3457.3
47.5°	3898.1	3855.5	3802.3	3759.8	3745.6	3732.6	3744.5	3744.5	3731.5
50°	4334.1	4283.3	4220.6	4152.1	4128.5	4115.5	4120.2	4126.1	4089.5
52.5°	4926.0	4869.3	4780.7	4676.7	4654.3	4643.6	4641.3	4633.0	4623.6
55°	5728.3	5622.0	5513.3	5376.2	5334.9	5323.1	5324.2	5314.8	5337.2
57.5°	6674.8	6518.8	6268.3	6101.7	6002.5	5964.7	5930.4	5916.2	5917.4
60°	7611.8	7293.9	6919.4	6628.7	6420.7	6288.4	6184.4	6126.5	6110.0
62.5°	8215.6	7715.8	7153.3	6681.9	6340.4	6121.8	5957.6	5853.6	5820.5
63°	8262.8	7733.5	7132.1	6626.3	6267.1	6037.9	5865.4	5757.9	5722.4
65°	8160.0	7555.1	6854.4	6251.8	5858.3	5604.3	5417.6	5316.0	5288.8
67.5°	7361.3	6857.9	6144.3	5521.6	5124.5	4867.0	4653.1	4556.2	4525.5
70°	5988.3	5643.3	5058.4	4526.7	4156.8	3908.7	3692.5	3612.1	3610.9
72.5°	4439.2	3991.4	3642.8	3252.9	2930.3	2733.0	2545.1	2455.3	2410.4
75°	2936.2	2456.5	2066.6	1738.1	1416.7	1239.5	1028.0	937.0	883.8
77.5°	1479.3	1096.5	785.8	544.7	423.0	347.4	317.8	302.5	301.3
80°	492.7	369.8	317.8	297.8	291.9	293.0	289.5	283.6	276.5
82.5°	272.9	287.1	289.5	281.2	281.2	276.5	271.8	249.3	237.5
85°	234.0	257.6	259.9	255.2	254.0	247.0	238.7	208.0	190.2
87.5°	146.5	169.0	165.4	147.7	163.1	152.4	144.2	93.3	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)