

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: P157358

Luminaire Tested: **VST-E06-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157358
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-E06-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16198.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 150.5
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



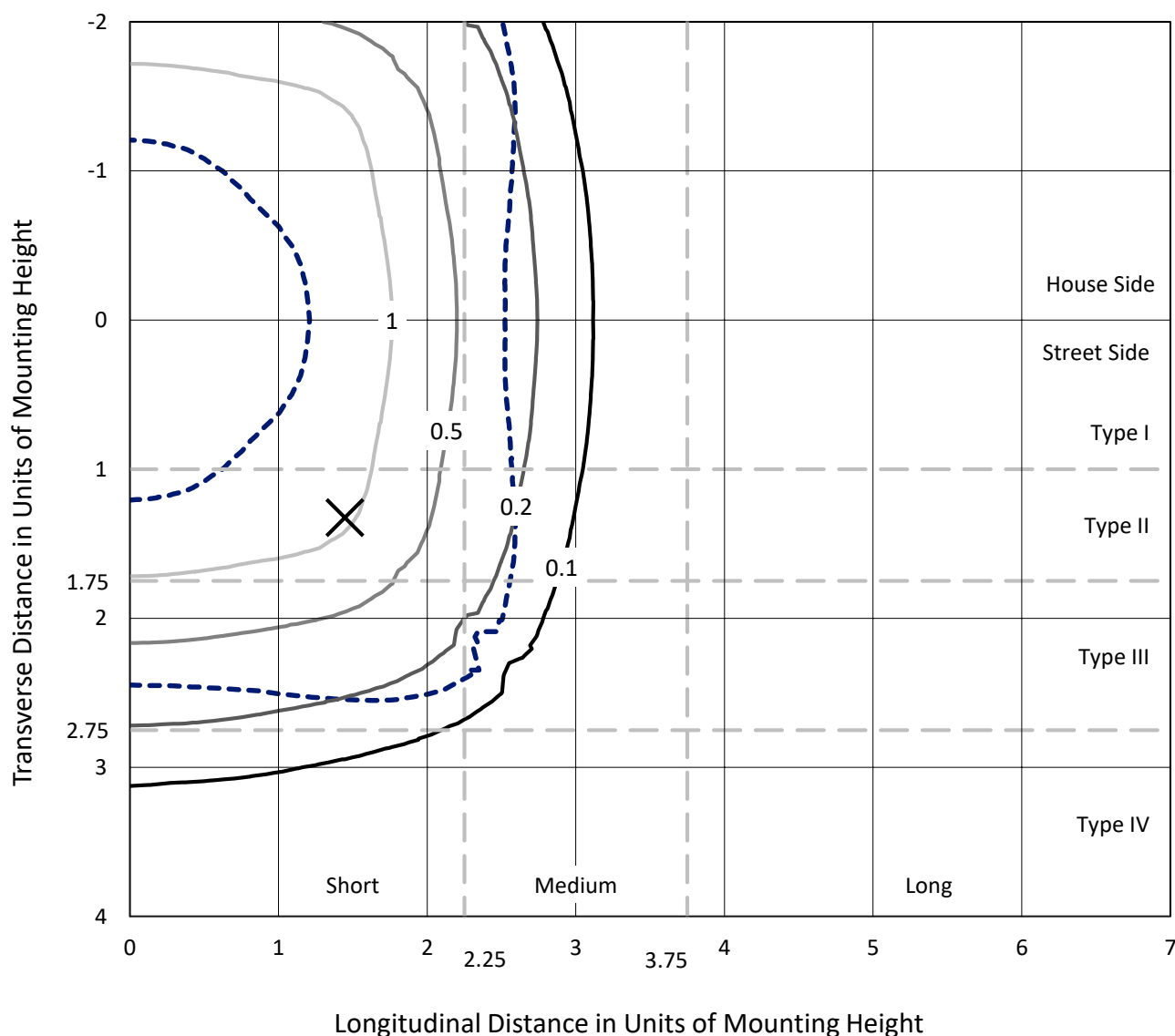
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

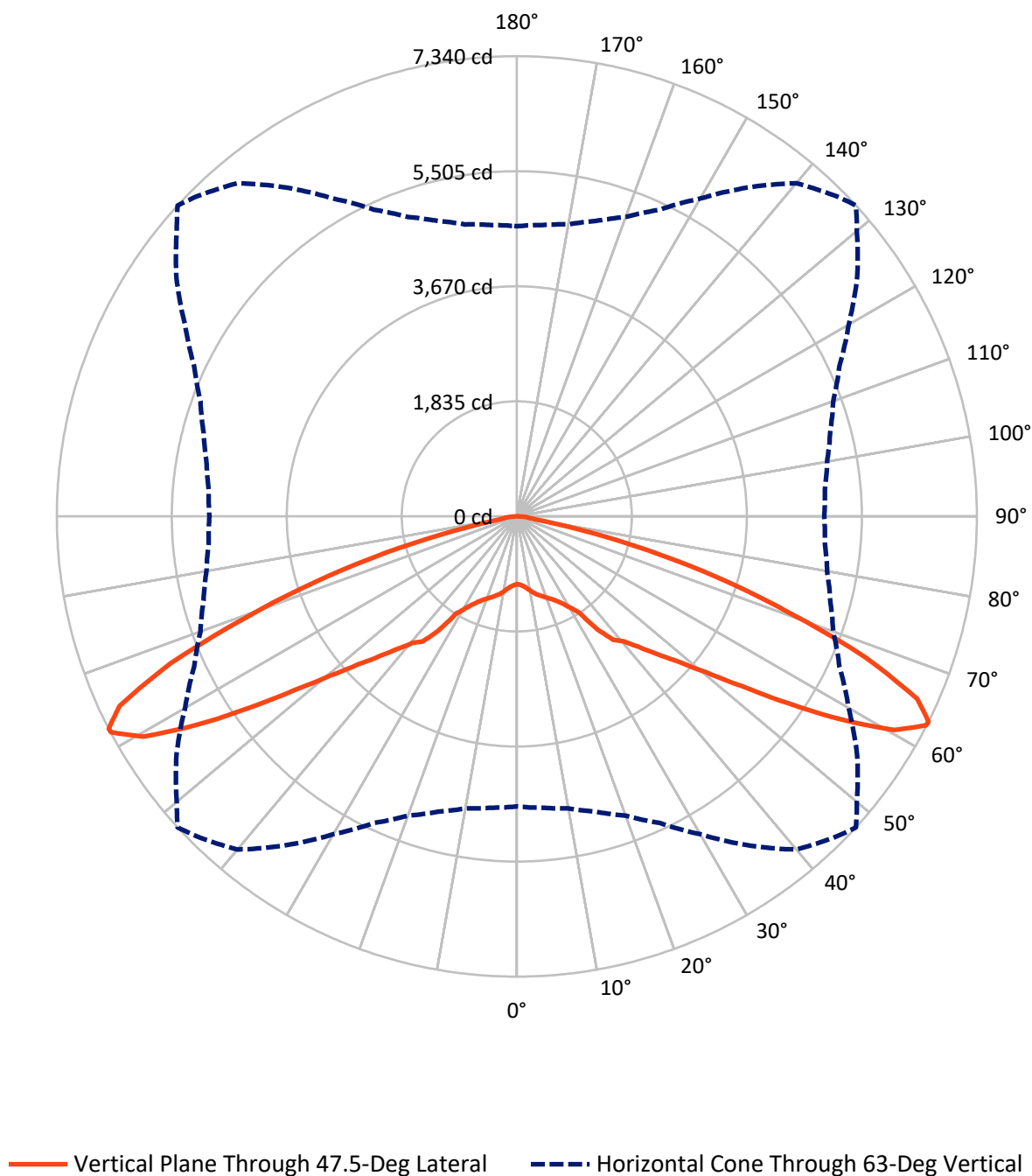


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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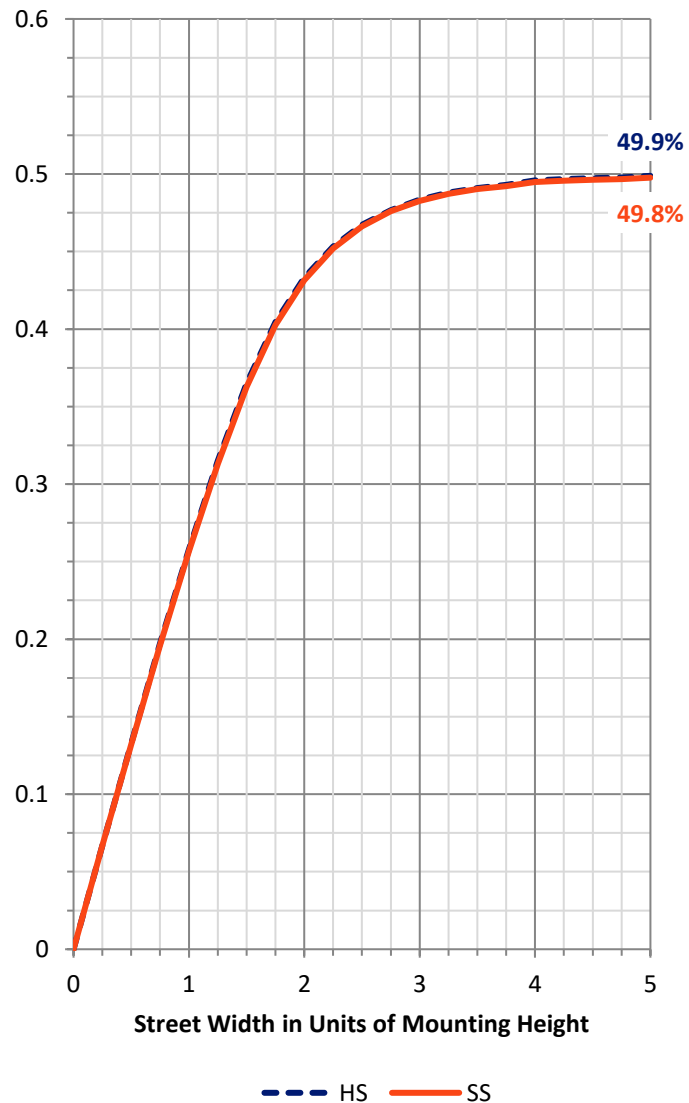
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.4	0.0	8099.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8099.4	0.0	8099.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16198.8	0.0	16198.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	0.7
10°-20°	369.1	2.3
20°-30°	706.1	4.4
30°-40°	1350.7	8.3
40°-50°	2337.1	14.4
50°-60°	4197.3	25.9
60°-70°	5104.0	31.5
70°-80°	1843.3	11.4
80°-90°	182.6	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°	16198.8	100.0
0°-180°	16198.8	100.0

Coefficient of Utilization



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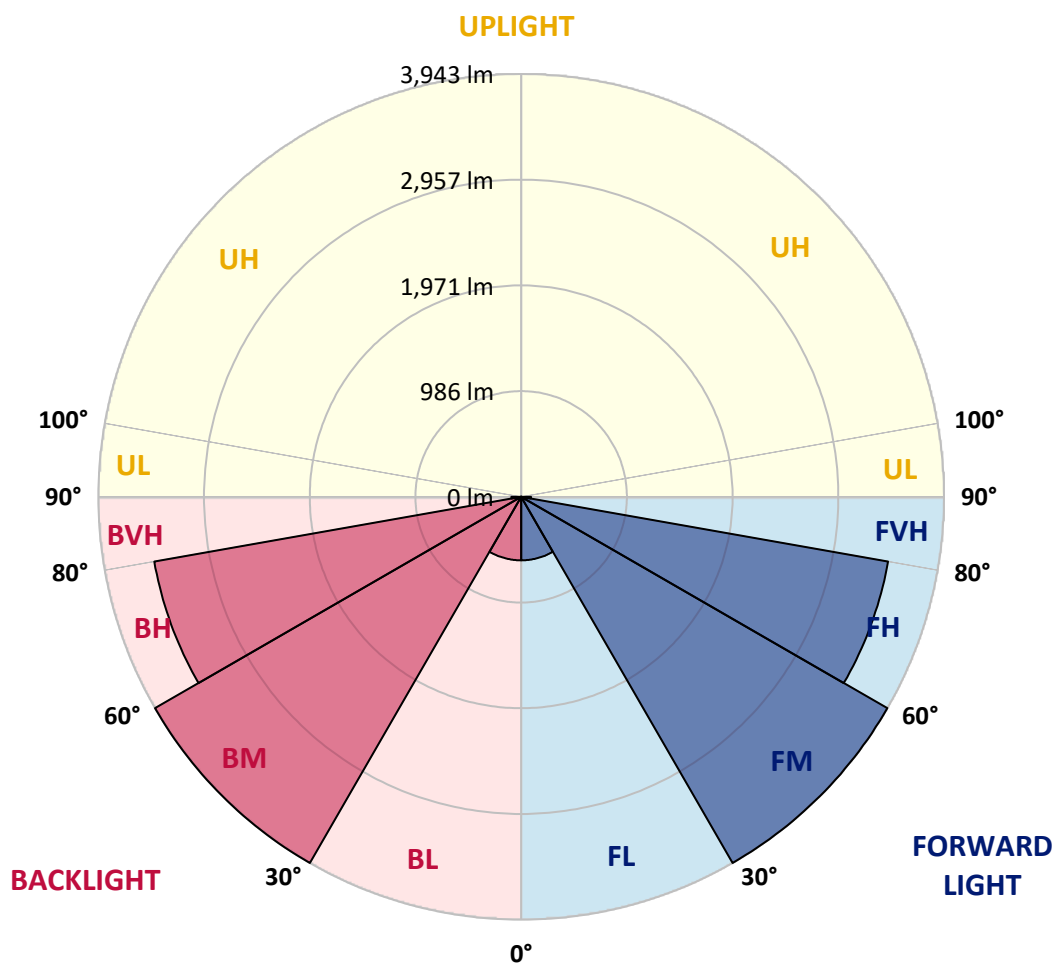
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.9	3.7			
FM	(30°-60°)	3942.6	24.3			
FH	(60°-80°)	3473.7	21.4			G2/5000
FVH	(80°-90°)	91.3	0.6			G1/100
BL	(0°-30°)	591.9	3.7	B2/1000		
BM	(30°-60°)	3942.6	24.3	B3/5000		
BH	(60°-80°)	3473.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	91.3	0.6			G1/100
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°	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7
2.5°	1088.7	1086.7	1087.7	1088.7	1087.7	1086.7	1086.7	1086.7	1088.7	1086.7	1091.8
5°	1110.0	1108.0	1109.0	1109.0	1109.0	1107.0	1107.0	1107.0	1106.0	1107.0	1118.1
7.5°	1150.5	1147.5	1146.5	1148.5	1146.5	1145.5	1144.5	1144.5	1142.4	1142.4	1156.6
10°	1199.1	1195.1	1197.1	1198.1	1195.1	1193.1	1193.1	1193.1	1190.0	1189.0	1207.2
12.5°	1252.8	1250.8	1250.8	1248.8	1247.8	1245.7	1244.7	1245.7	1241.7	1241.7	1259.9
15°	1304.5	1300.4	1301.4	1298.4	1296.4	1294.3	1293.3	1292.3	1290.3	1290.3	1301.4
17.5°	1352.1	1349.0	1348.0	1345.0	1341.9	1338.9	1336.9	1335.9	1332.8	1332.8	1343.0
20°	1401.7	1398.7	1396.6	1391.6	1386.5	1383.5	1379.4	1377.4	1373.3	1374.4	1385.5
22.5°	1458.4	1453.4	1449.3	1445.3	1436.1	1430.1	1425.0	1420.9	1418.9	1418.9	1434.1
25°	1534.4	1531.3	1525.3	1512.1	1501.0	1491.8	1483.7	1479.7	1475.6	1473.6	1496.9
27.5°	1627.6	1624.5	1616.4	1603.2	1588.1	1572.9	1563.7	1556.7	1551.6	1548.6	1582.0
30°	1751.1	1746.0	1739.0	1717.7	1704.5	1681.2	1671.1	1661.0	1649.8	1652.9	1692.4
32.5°	1993.2	1986.1	1963.8	1940.5	1900.0	1868.6	1836.2	1811.9	1788.6	1785.5	1828.1
35°	2212.9	2209.9	2205.9	2189.7	2174.5	2155.2	2140.0	2114.7	2093.4	2088.4	2207.9
37.5°	2331.4	2338.5	2332.5	2330.4	2330.4	2339.5	2367.9	2396.3	2416.5	2428.7	2495.5
40°	2512.7	2512.7	2505.6	2501.6	2493.5	2505.6	2517.8	2539.1	2548.2	2549.2	2617.0
42.5°	2718.3	2719.3	2712.2	2700.1	2696.0	2707.2	2723.4	2743.6	2755.8	2758.8	2837.8
45°	2947.2	2944.2	2938.1	2934.1	2937.1	2947.2	2966.5	3006.0	3024.2	3038.4	3124.5
47.5°	3195.3	3215.6	3198.4	3201.4	3201.4	3232.8	3276.4	3308.8	3338.2	3365.5	3456.6
50°	3520.5	3523.5	3526.5	3535.6	3541.7	3583.2	3637.9	3676.4	3719.0	3754.4	3903.3
52.5°	3954.9	3948.9	3964.1	3974.2	4008.6	4030.9	4122.1	4170.7	4229.4	4275.0	4492.7
55°	4474.5	4471.5	4493.7	4501.8	4547.4	4602.1	4703.4	4809.7	4910.0	4965.7	5263.5
57.5°	4847.2	4855.3	4893.8	4947.5	5036.6	5153.1	5304.0	5538.9	5729.3	5790.1	6118.3
60°	4929.2	4955.6	5013.3	5120.7	5273.6	5490.3	5787.1	6146.6	6495.0	6611.5	6919.4
62.5°	4699.3	4729.7	4814.8	4943.4	5142.9	5464.0	5892.4	6399.8	6917.3	7176.6	7331.6
63°	4626.4	4663.9	4727.7	4876.6	5079.1	5396.1	5851.9	6398.8	6935.6	7218.1	7339.7
65°	4284.1	4291.2	4386.4	4535.3	4763.1	5092.3	5552.1	6184.1	6779.6	7105.7	7021.7
67.5°	3686.6	3715.9	3795.9	3945.8	4167.6	4509.9	5009.3	5593.6	6117.2	6377.5	6001.8
70°	2978.6	2976.6	3075.8	3196.4	3391.8	3692.6	4130.2	4657.8	5073.1	5262.5	4633.5
72.5°	2127.9	2075.2	2148.1	2281.8	2441.8	2681.9	3028.2	3438.4	3810.1	3974.2	3387.8
75°	969.2	955.1	1019.9	1152.6	1314.6	1528.3	1812.9	2167.4	2523.9	2716.3	2158.3
77.5°	326.1	330.2	355.5	403.1	490.2	597.5	774.8	1001.6	1290.3	1480.7	1012.8
80°	218.8	224.8	232.9	240.0	250.2	266.4	304.8	363.6	452.7	547.9	320.0
82.5°	179.3	186.4	204.6	212.7	218.8	223.8	226.9	230.9	230.9	232.9	202.6
85°	128.6	140.8	165.1	180.3	186.4	190.4	195.5	201.5	192.4	184.3	157.0
87.5°	44.6	60.8	89.1	98.2	105.3	106.3	113.4	125.6	119.5	97.2	47.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7
2.5°	1086.7	1085.7	1086.7	1087.7	1087.7	1087.7	1088.7	1089.8	1089.8
5°	1107.0	1108.0	1107.0	1108.0	1108.0	1109.0	1109.0	1111.0	1111.0
7.5°	1141.4	1143.4	1142.4	1144.5	1144.5	1146.5	1145.5	1148.5	1148.5
10°	1188.0	1190.0	1192.1	1193.1	1192.1	1194.1	1196.1	1197.1	1196.1
12.5°	1240.7	1241.7	1240.7	1242.7	1242.7	1244.7	1244.7	1247.8	1247.8
15°	1289.3	1288.3	1287.3	1290.3	1292.3	1293.3	1295.4	1298.4	1295.4
17.5°	1332.8	1333.8	1331.8	1334.9	1338.9	1341.9	1344.0	1348.0	1347.0
20°	1376.4	1374.4	1376.4	1381.4	1385.5	1389.5	1393.6	1399.7	1398.7
22.5°	1418.9	1420.9	1426.0	1430.1	1437.1	1443.2	1448.3	1456.4	1459.4
25°	1478.7	1478.7	1486.8	1491.8	1502.0	1510.1	1521.2	1530.3	1535.4
27.5°	1554.6	1554.6	1563.7	1574.9	1590.1	1604.3	1616.4	1628.6	1626.5
30°	1657.9	1663.0	1671.1	1685.3	1705.5	1722.8	1739.0	1751.1	1752.1
32.5°	1793.6	1799.7	1824.0	1860.5	1903.0	1935.4	1959.7	1989.1	1993.2
35°	2101.5	2116.7	2148.1	2177.5	2194.7	2214.0	2226.1	2227.1	2229.1
37.5°	2425.6	2399.3	2375.0	2352.7	2342.6	2340.6	2340.6	2344.6	2346.6
40°	2544.1	2531.0	2519.8	2505.6	2509.7	2508.7	2515.8	2521.8	2525.9
42.5°	2746.7	2736.6	2726.4	2708.2	2718.3	2715.3	2725.4	2734.5	2739.6
45°	3029.3	2997.9	2975.6	2946.2	2956.3	2950.3	2950.3	2961.4	2963.4
47.5°	3341.2	3304.7	3259.2	3222.7	3210.5	3199.4	3209.5	3209.5	3198.4
50°	3714.9	3671.4	3617.7	3558.9	3538.7	3527.5	3531.6	3536.7	3505.3
52.5°	4222.3	4173.7	4097.7	4008.6	3989.4	3980.3	3978.2	3971.1	3963.0
55°	4910.0	4818.9	4725.7	4608.2	4572.7	4562.6	4563.6	4555.5	4574.8
57.5°	5721.2	5587.6	5372.8	5230.0	5145.0	5112.6	5083.2	5071.0	5072.0
60°	6524.4	6251.9	5930.9	5681.7	5503.5	5390.1	5300.9	5251.3	5237.1
62.5°	7041.9	6613.5	6131.4	5727.3	5434.6	5247.3	5106.5	5017.4	4989.0
63°	7082.4	6628.7	6113.2	5679.7	5371.8	5175.4	5027.5	4935.3	4904.9
65°	6994.3	6475.8	5875.2	5358.7	5021.4	4803.7	4643.6	4556.5	4533.2
67.5°	6309.7	5878.2	5266.5	4732.8	4392.5	4171.7	3988.4	3905.3	3879.0
70°	5132.8	4837.1	4335.8	3880.0	3563.0	3350.3	3165.0	3096.1	3095.1
72.5°	3805.0	3421.2	3122.4	2788.2	2511.7	2342.6	2181.5	2104.6	2066.1
75°	2516.8	2105.6	1771.4	1489.8	1214.3	1062.4	881.1	803.1	757.6
77.5°	1268.0	939.9	673.5	466.9	362.6	297.8	272.4	259.3	258.3
80°	422.3	317.0	272.4	255.2	250.2	251.2	248.1	243.1	237.0
82.5°	234.0	246.1	248.1	241.0	241.0	237.0	232.9	213.7	203.6
85°	200.5	220.8	222.8	218.8	217.7	211.7	204.6	178.3	163.1
87.5°	125.6	144.8	141.8	126.6	139.8	130.6	123.6	80.0	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)