

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: P189899

Luminaire Tested: **VERD-M-A0385-E-U-T5-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-A0385-E-U-T5-7030-AP  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K LEDS AT 85% STANDARD LUMENS AND TYPE V OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18929 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 152  
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

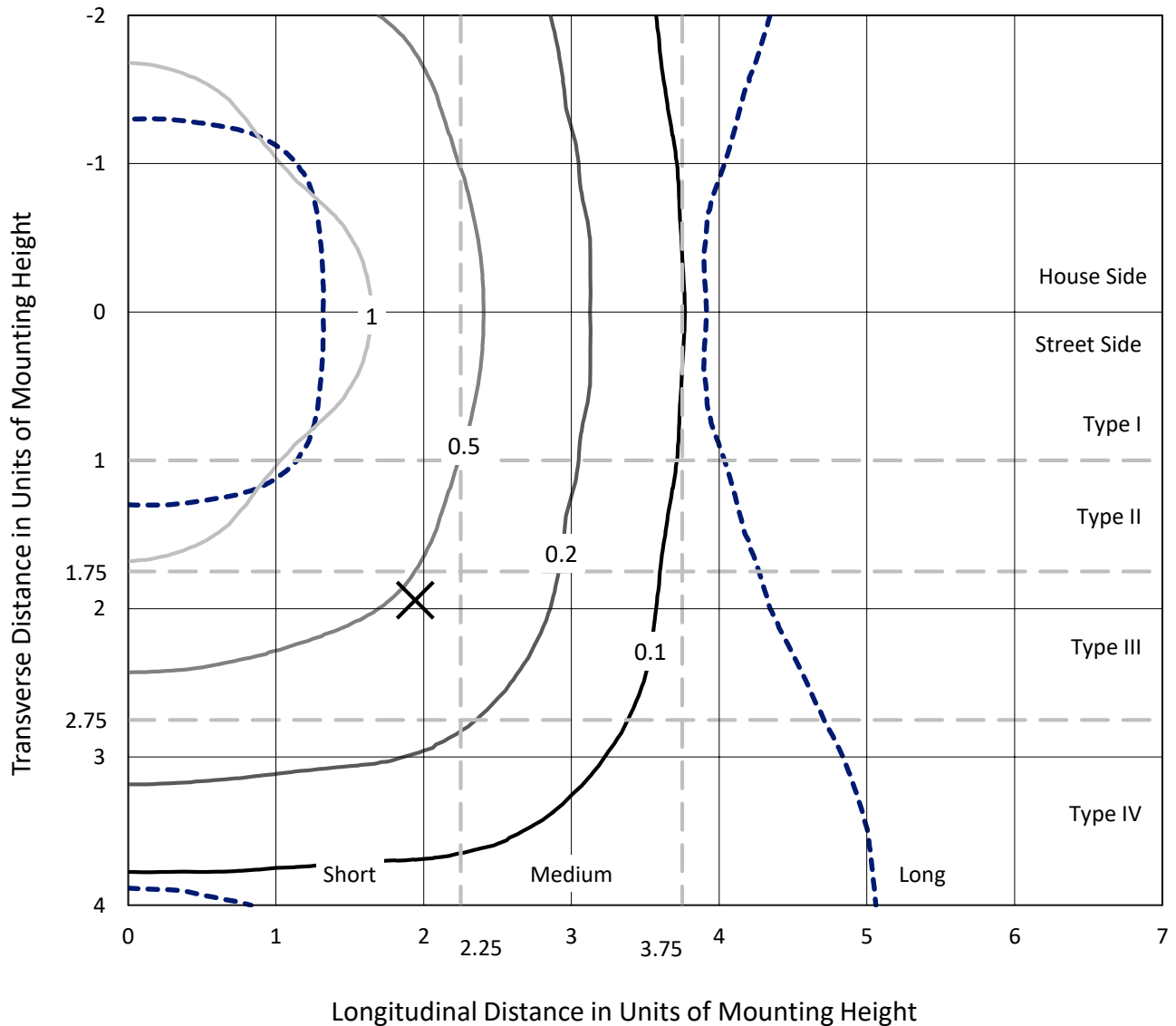




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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

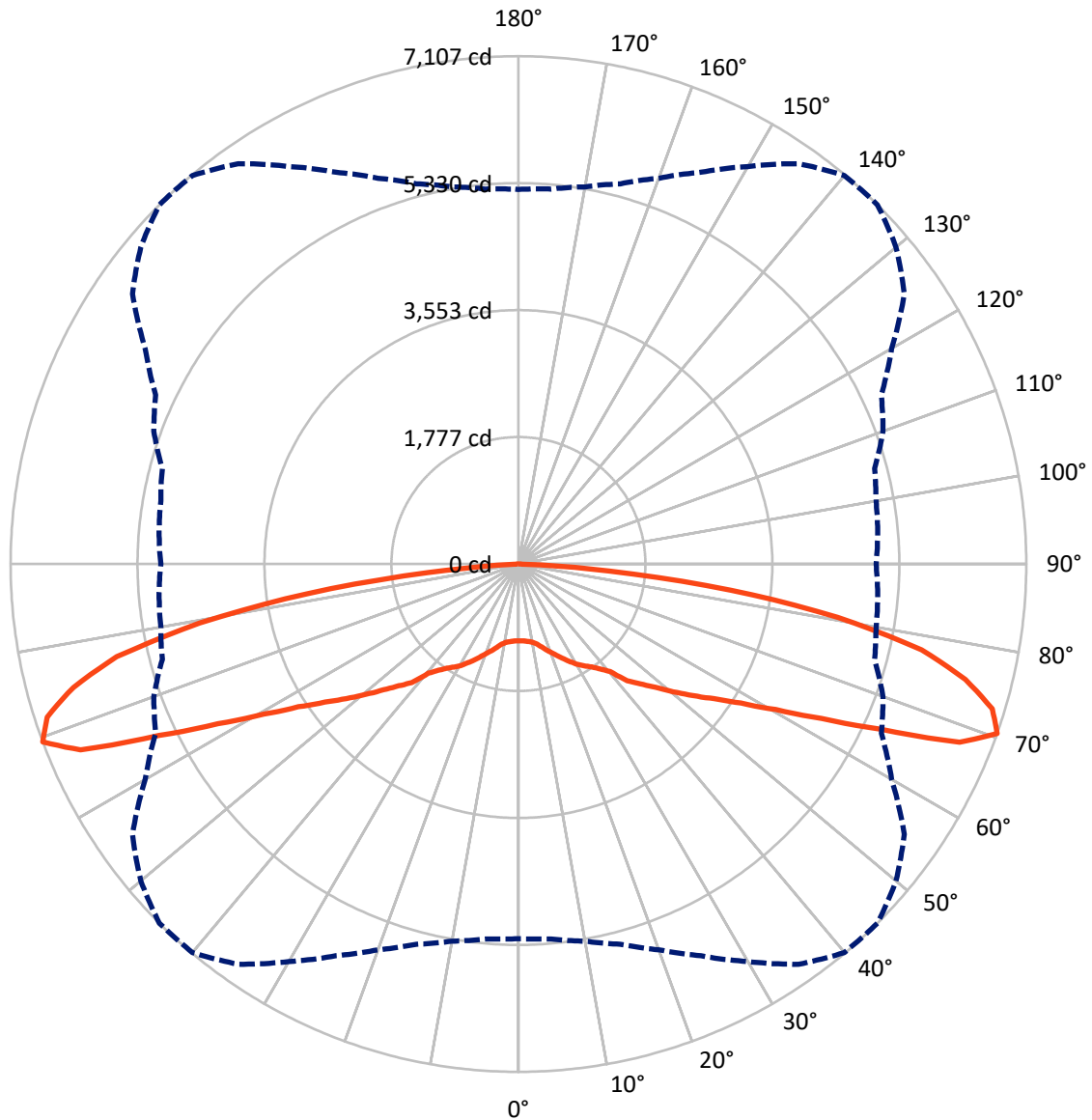


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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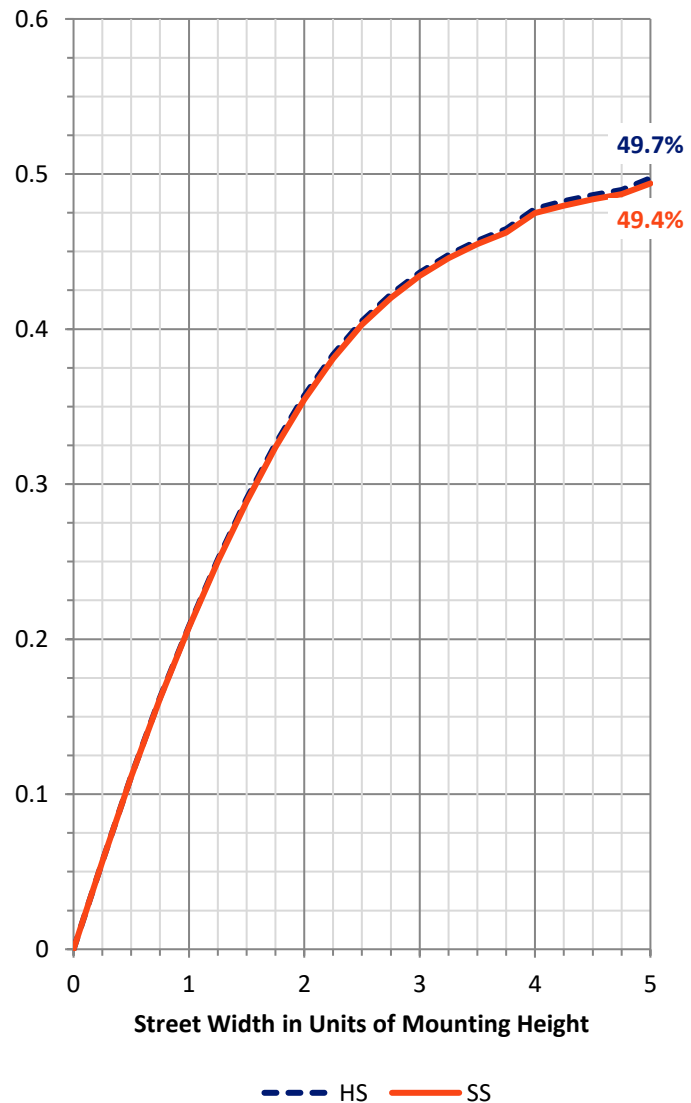
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9464.5	0.0	9464.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9464.5	0.0	9464.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18929.0	0.0	18929.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	0.6
10°-20°	343.1	1.8
20°-30°	665.7	3.5
30°-40°	1112.7	5.9
40°-50°	1937.6	10.2
50°-60°	3303.4	17.5
60°-70°	5442.3	28.8
70°-80°	4979.9	26.3
80°-90°	1039.4	5.5
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°	18929.0	100.0
0°-180°	18929.0	100.0



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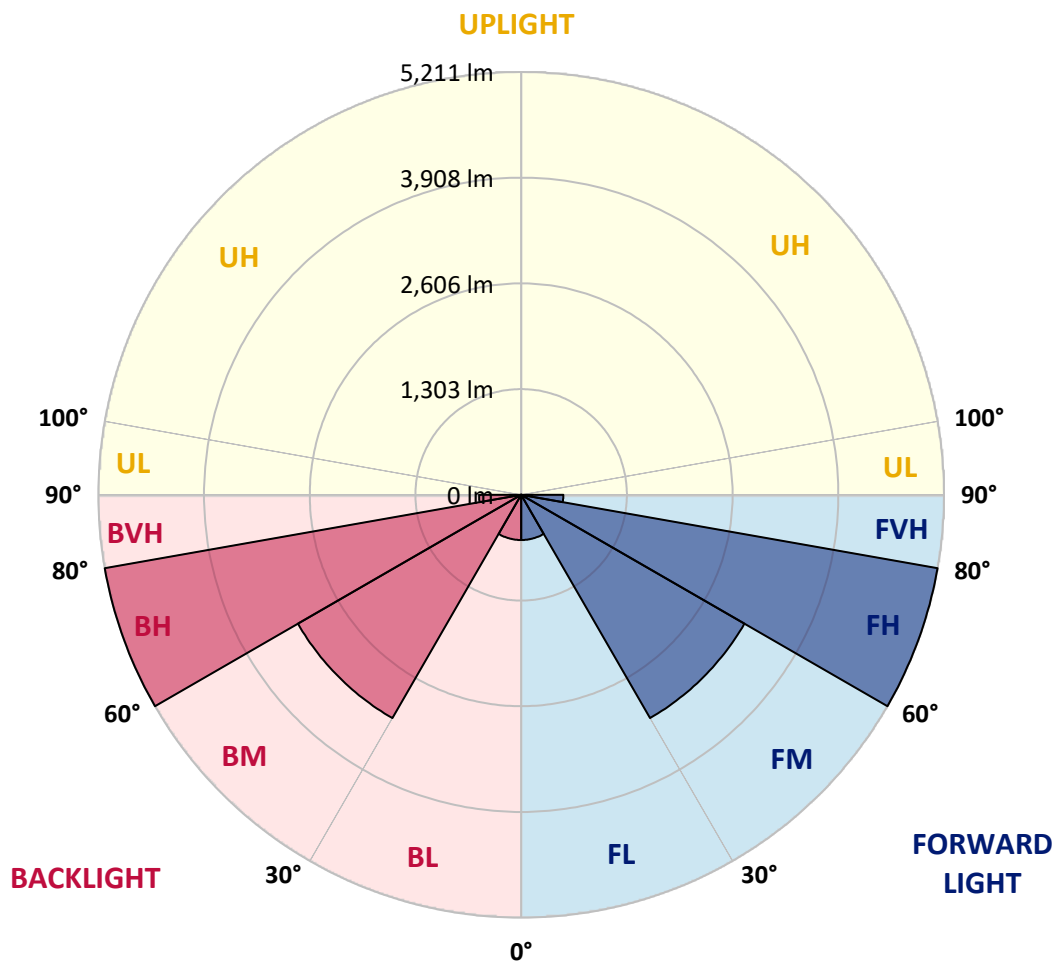
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.8	2.9			
FM	(30°-60°)	3176.9	16.8			
FH	(60°-80°)	5211.1	27.5			G3/7500
FVH	(80°-90°)	519.7	2.7			G4/750
BL	(0°-30°)	556.8	2.9	B2/1000		
BM	(30°-60°)	3176.9	16.8	B3/5000		
BH	(60°-80°)	5211.1	27.5	B5		G3/7500
BVH	(80°-90°)	519.7	2.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2
2.5°	1088.5	1088.5	1088.5	1086.1	1086.1	1079.9	1079.9	1075.0	1071.3	1075.0	1072.6
5°	1100.8	1098.3	1097.1	1094.6	1094.6	1091.0	1088.5	1083.6	1082.4	1084.8	1082.4
7.5°	1115.5	1113.1	1109.4	1106.9	1109.4	1105.7	1103.2	1097.1	1097.1	1095.9	1095.9
10°	1136.4	1132.7	1131.5	1129.0	1131.5	1124.1	1124.1	1119.2	1116.7	1114.3	1115.5
12.5°	1164.6	1162.1	1160.9	1158.5	1158.5	1156.0	1158.5	1151.1	1149.9	1149.9	1151.1
15°	1206.3	1202.6	1201.4	1199.0	1199.0	1201.4	1202.6	1199.0	1202.6	1202.6	1199.0
17.5°	1256.6	1251.7	1251.7	1249.3	1251.7	1254.2	1257.9	1257.9	1261.5	1262.8	1257.9
20°	1309.4	1304.5	1303.3	1302.0	1306.9	1309.4	1316.8	1322.9	1327.8	1324.1	1314.3
22.5°	1365.8	1360.9	1358.5	1354.8	1359.7	1365.8	1383.0	1395.3	1400.2	1395.3	1383.0
25°	1426.0	1423.5	1422.3	1416.2	1413.7	1426.0	1448.1	1464.0	1473.8	1470.2	1460.3
27.5°	1491.0	1487.3	1486.1	1478.7	1477.5	1480.0	1503.3	1535.2	1545.0	1548.7	1537.7
30°	1556.1	1552.4	1551.2	1547.5	1545.0	1545.0	1557.3	1590.4	1621.1	1630.9	1606.4
32.5°	1640.7	1635.8	1634.6	1627.2	1624.8	1626.0	1633.4	1649.3	1682.5	1699.6	1669.0
35°	1745.0	1740.1	1731.5	1727.9	1721.7	1723.0	1727.9	1742.6	1758.5	1768.4	1752.4
37.5°	1855.5	1850.6	1845.7	1840.8	1832.2	1832.2	1834.6	1845.7	1860.4	1862.9	1850.6
40°	2015.0	2016.3	1996.6	1990.5	1973.3	1969.6	1970.8	1975.8	1984.3	1978.2	1980.7
42.5°	2285.0	2265.4	2247.0	2240.8	2223.6	2218.7	2216.3	2221.2	2226.1	2232.2	2239.6
45°	2543.9	2534.1	2509.6	2485.0	2451.9	2426.1	2394.2	2373.4	2372.1	2389.3	2391.8
47.5°	2848.3	2832.3	2795.5	2761.2	2709.6	2661.7	2607.8	2573.4	2563.6	2578.3	2579.5
50°	3194.3	3175.9	3133.0	3088.8	3022.5	2962.4	2879.0	2825.0	2804.1	2809.0	2806.6
52.5°	3549.0	3530.6	3477.8	3439.8	3371.1	3290.1	3189.4	3107.2	3065.5	3056.9	3044.6
55°	3951.5	3931.9	3876.7	3834.9	3750.3	3664.4	3536.7	3431.2	3363.7	3326.9	3318.3
57.5°	4370.0	4346.7	4303.7	4236.2	4173.6	4062.0	3946.6	3819.0	3723.3	3669.3	3655.8
60°	4799.5	4779.9	4735.7	4700.1	4636.3	4555.3	4422.8	4295.1	4190.8	4136.8	4104.9
62.5°	5264.6	5252.3	5219.2	5195.9	5145.6	5054.7	4989.7	4887.9	4819.1	4760.2	4719.7
65°	5775.1	5771.4	5770.2	5778.8	5767.7	5723.6	5692.9	5624.2	5600.8	5572.6	5512.5
67.5°	5694.1	5715.0	5778.8	5862.2	5978.8	6108.9	6277.0	6414.5	6556.8	6656.2	6527.4
70°	5241.3	5267.0	5359.1	5507.6	5744.4	6048.8	6423.1	6837.8	7096.8	7106.6	6898.0
72.5°	4674.3	4697.6	4773.7	4987.3	5256.0	5716.2	6335.9	6801.0	6967.9	6934.8	6718.8
75°	3787.1	3836.2	4043.6	4255.9	4625.2	5123.5	5847.5	6340.8	6559.3	6462.3	6191.1
77.5°	2720.7	2719.4	2865.5	3180.8	3533.0	4129.5	4884.2	5528.4	5800.9	5767.7	5555.4
80°	1473.8	1526.6	1684.9	1945.1	2309.5	2818.8	3477.8	4089.0	4424.0	4533.2	4422.8
82.5°	657.8	686.0	795.2	1007.5	1234.5	1607.6	2072.7	2536.6	2856.9	2990.6	2890.0
85°	207.4	214.8	254.0	357.1	468.8	665.1	929.0	1222.3	1378.1	1273.8	1095.9
87.5°	50.3	52.8	65.0	101.9	149.7	208.6	189.0	159.5	114.1	57.7	35.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2
2.5°	1072.6	1071.3	1072.6	1073.8	1073.8	1072.6	1072.6	1075.0
5°	1083.6	1082.4	1083.6	1087.3	1086.1	1087.3	1086.1	1089.7
7.5°	1094.6	1093.4	1092.2	1095.9	1095.9	1097.1	1095.9	1098.3
10°	1114.3	1114.3	1113.1	1114.3	1111.8	1111.8	1109.4	1108.1
12.5°	1147.4	1146.2	1147.4	1143.7	1141.3	1140.0	1137.6	1133.9
15°	1196.5	1192.8	1194.0	1184.2	1183.0	1181.8	1179.3	1176.9
17.5°	1250.5	1241.9	1240.7	1229.6	1230.9	1227.2	1223.5	1223.5
20°	1306.9	1297.1	1291.0	1281.2	1279.9	1278.7	1272.6	1275.0
22.5°	1372.0	1357.3	1348.7	1340.1	1335.2	1337.6	1332.7	1335.2
25°	1445.6	1423.5	1405.1	1403.9	1402.7	1405.1	1403.9	1403.9
27.5°	1513.1	1480.0	1467.7	1473.8	1473.8	1476.3	1481.2	1480.0
30°	1565.9	1545.0	1540.1	1552.4	1552.4	1554.8	1559.7	1561.0
32.5°	1642.0	1630.9	1632.1	1648.1	1649.3	1655.5	1661.6	1666.5
35°	1738.9	1735.2	1745.0	1762.2	1767.1	1774.5	1785.5	1792.9
37.5°	1846.9	1855.5	1866.5	1886.2	1900.9	1910.7	1924.2	1931.6
40°	2001.5	2022.4	2040.8	2064.1	2076.4	2093.6	2109.5	2120.6
42.5°	2264.1	2277.6	2291.1	2310.8	2331.6	2346.4	2356.2	2363.5
45°	2423.7	2448.2	2482.6	2521.9	2561.1	2594.3	2620.0	2623.7
47.5°	2613.9	2651.9	2699.8	2761.2	2813.9	2845.8	2865.5	2876.5
50°	2842.1	2888.8	2956.3	3028.7	3088.8	3133.0	3157.5	3174.7
52.5°	3088.8	3147.7	3231.2	3320.7	3394.4	3438.6	3479.1	3498.7
55°	3368.6	3449.6	3552.7	3660.7	3741.7	3799.3	3828.8	3853.3
57.5°	3720.8	3822.7	3944.2	4050.9	4136.8	4199.4	4241.1	4262.0
60°	4187.1	4289.0	4397.0	4501.3	4598.2	4641.2	4678.0	4694.0
62.5°	4759.0	4836.3	4923.4	4998.3	5090.3	5152.9	5193.4	5205.7
65°	5508.8	5543.2	5638.9	5722.3	5722.3	5708.8	5702.7	5692.9
67.5°	6258.6	6027.9	5847.5	5759.1	5664.7	5593.5	5553.0	5528.4
70°	6592.4	6030.4	5602.1	5429.0	5159.1	5081.7	5047.4	5004.4
72.5°	6317.5	5668.3	5063.3	4914.8	4552.8	4594.6	4425.2	4354.0
75°	5737.1	5100.2	4559.0	4221.5	4043.6	3820.2	3729.4	3741.7
77.5°	5137.0	4428.9	3839.8	3498.7	3286.4	3066.7	3015.2	3016.4
80°	3978.5	3339.2	2839.7	2513.3	2259.2	2075.2	1925.4	1880.0
82.5°	2459.3	2029.8	1683.7	1456.7	1249.3	1087.3	935.1	915.5
85°	838.2	666.4	497.0	401.3	319.1	257.7	209.8	202.5
87.5°	22.1	22.1	22.1	22.1	22.1	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)