

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: P161705

Luminaire Tested: **OVF-E05-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P161705  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF-E05-LED-E-U-5XQ-8030  
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13048.5 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

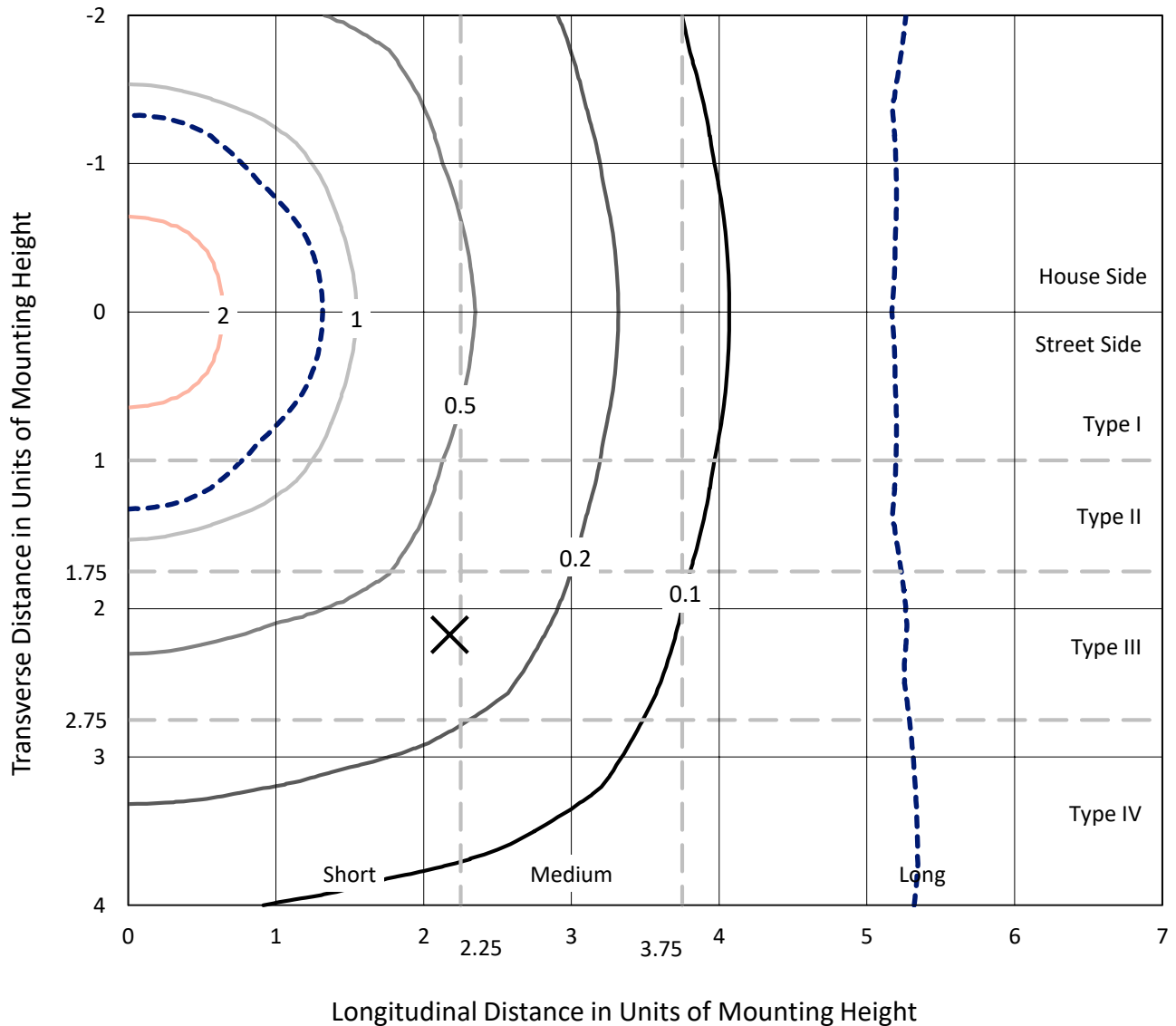
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

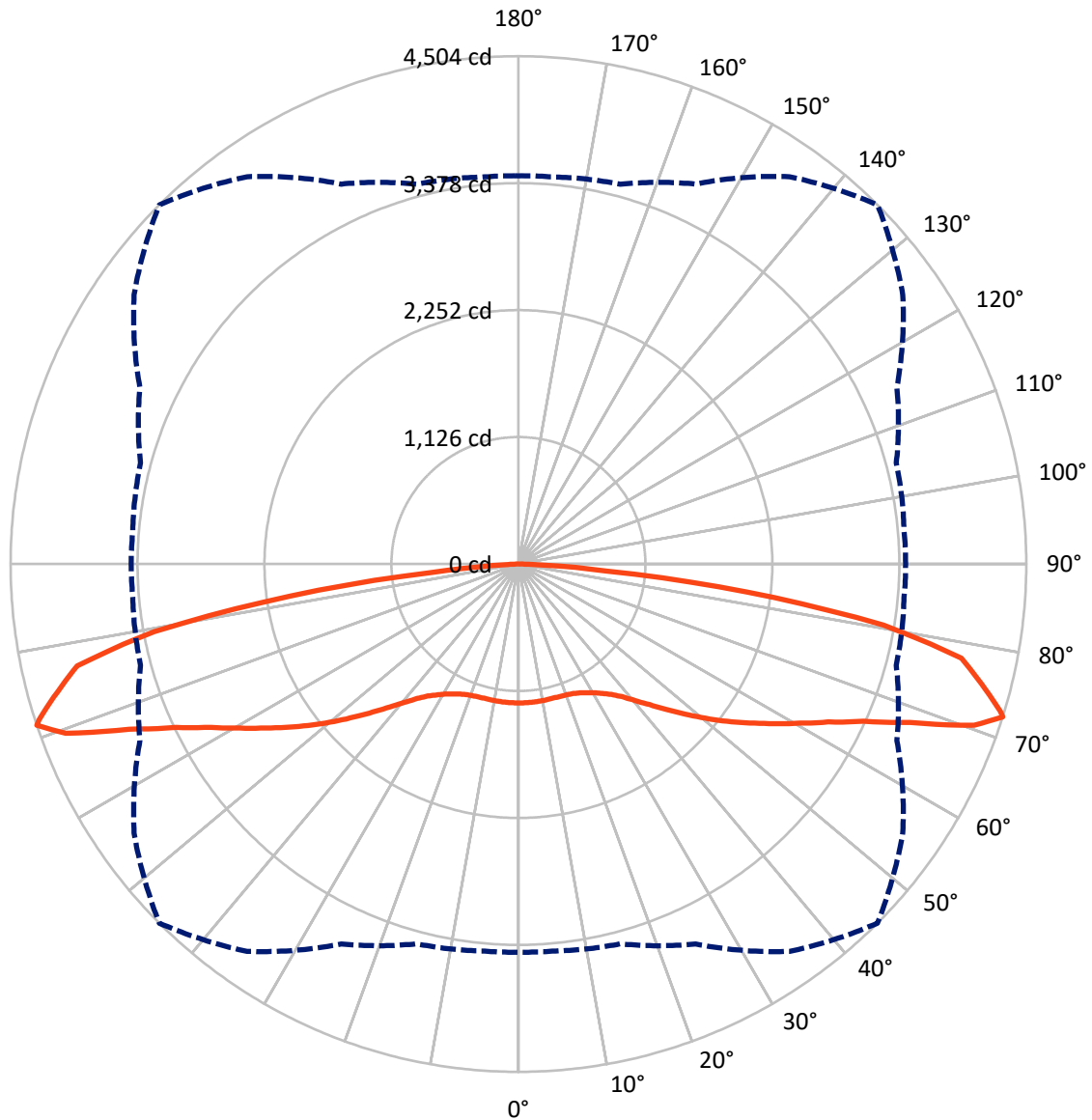
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical



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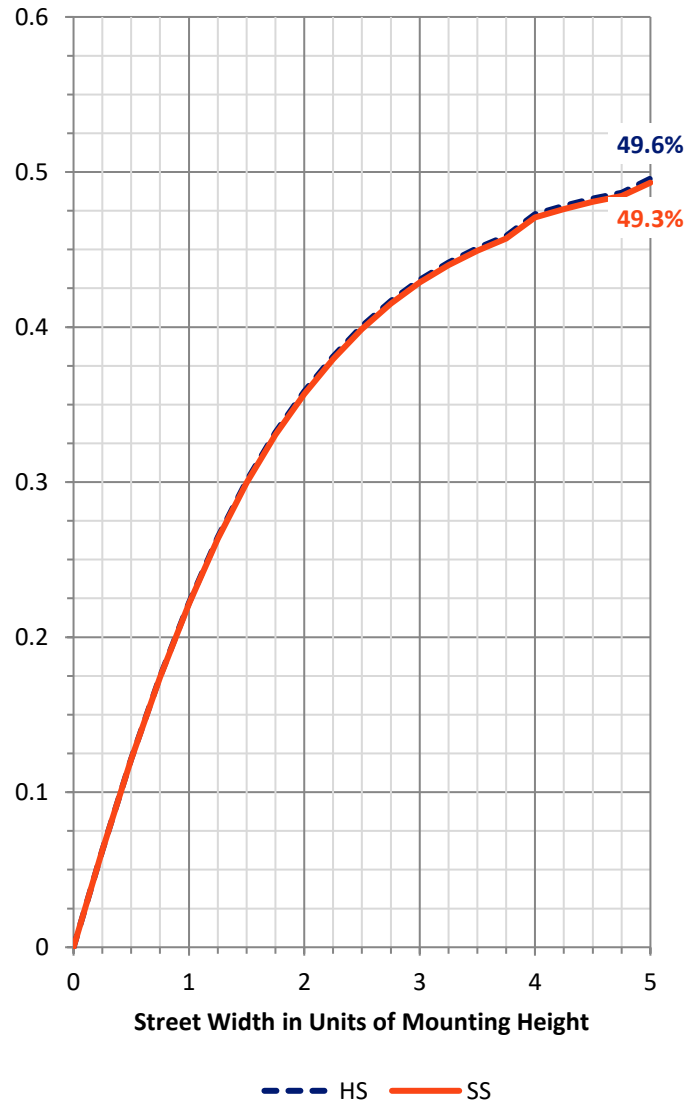
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6524.3	0.0	6524.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6524.3	0.0	6524.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13048.5	0.0	13048.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	0.9
10°-20°	349.4	2.7
20°-30°	586.8	4.5
30°-40°	893.2	6.8
40°-50°	1412.0	10.8
50°-60°	2156.6	16.5
60°-70°	3159.5	24.2
70°-80°	3589.4	27.5
80°-90°	784.0	6.0
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°	13048.5	100.0
0°-180°	13048.5	100.0



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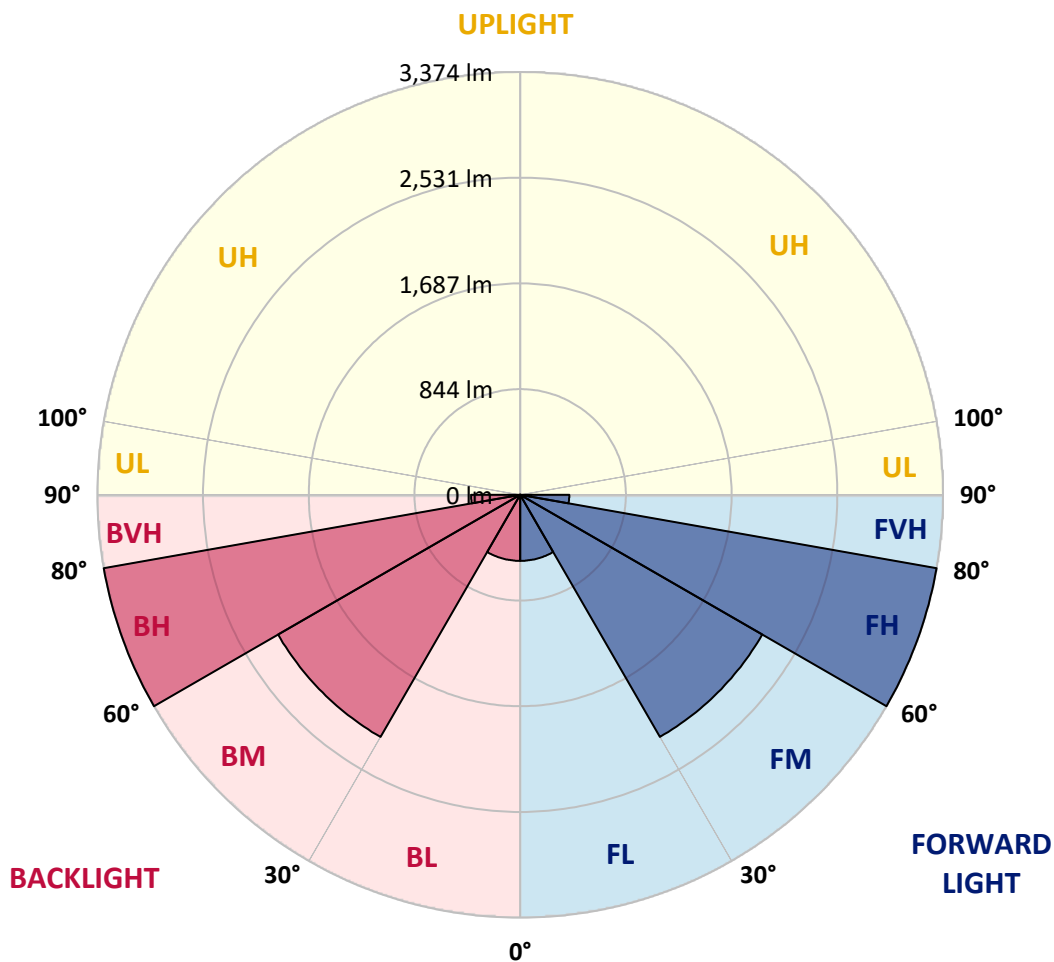
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.9	4.0			
FM (30°-60°)	2230.9	17.1			
FH (60°-80°)	3374.5	25.9			G2/5000
FVH (80°-90°)	392.0	3.0			G3/500
BL (0°-30°)	526.9	4.0	B2/1000		
BM (30°-60°)	2230.9	17.1	B2/2500		
BH (60°-80°)	3374.5	25.9	B4/5000		G2/5000
BVH (80°-90°)	392.0	3.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1234.8	1234.4	1233.5	1232.6	1232.2	1231.8	1231.8	1231.8	1231.6	1231.4	1231.6
5°	1234.8	1234.3	1233.7	1233.1	1232.4	1231.8	1231.8	1231.8	1231.6	1231.4	1231.8
7.5°	1233.0	1233.5	1232.9	1232.2	1232.0	1231.8	1231.6	1231.4	1230.9	1230.5	1230.7
10°	1233.5	1235.2	1233.9	1232.6	1232.2	1231.8	1231.0	1230.2	1229.9	1229.7	1229.3
12.5°	1234.4	1236.0	1234.6	1233.0	1232.4	1231.8	1231.0	1230.1	1229.5	1228.8	1228.2
15°	1236.8	1238.2	1236.9	1235.6	1234.3	1233.0	1232.2	1231.4	1230.1	1228.8	1228.2
17.5°	1238.6	1240.6	1239.2	1237.8	1236.2	1234.8	1233.9	1233.1	1232.2	1231.4	1230.4
20°	1241.5	1243.6	1242.4	1241.0	1240.2	1239.4	1238.8	1238.1	1237.5	1236.9	1235.4
22.5°	1247.0	1248.6	1248.2	1247.8	1248.1	1248.2	1248.5	1248.7	1248.3	1247.8	1246.4
25°	1258.4	1258.4	1259.2	1260.0	1261.3	1262.6	1263.7	1264.8	1265.4	1266.0	1264.1
27.5°	1278.2	1279.9	1280.5	1281.2	1283.3	1285.4	1287.7	1290.1	1291.3	1292.6	1290.7
30°	1304.0	1304.0	1305.4	1306.9	1310.5	1314.1	1317.0	1320.0	1322.3	1324.6	1323.2
32.5°	1336.9	1338.9	1341.1	1343.2	1347.6	1352.1	1357.1	1362.2	1365.2	1368.1	1365.8
35°	1387.1	1389.6	1391.7	1393.8	1398.5	1403.2	1408.9	1414.6	1417.1	1419.6	1418.1
37.5°	1458.0	1458.0	1460.9	1463.9	1466.8	1469.8	1477.4	1485.0	1488.2	1491.4	1488.8
40°	1553.8	1554.2	1554.9	1555.4	1558.2	1560.9	1570.2	1579.6	1585.0	1590.5	1585.2
42.5°	1664.0	1668.6	1668.3	1668.1	1670.0	1672.0	1680.8	1689.6	1697.5	1705.3	1702.2
45°	1793.9	1793.0	1791.4	1789.6	1795.4	1801.1	1813.8	1826.4	1833.4	1840.3	1833.8
47.5°	1925.2	1923.8	1921.5	1919.2	1924.9	1930.6	1949.6	1968.6	1978.6	1988.4	1977.9
50°	2056.0	2061.0	2058.0	2055.1	2063.6	2072.0	2096.0	2120.1	2134.6	2149.2	2137.0
52.5°	2200.7	2204.5	2201.1	2197.8	2209.4	2221.0	2249.4	2277.9	2297.3	2316.8	2300.3
55°	2350.5	2345.8	2347.8	2349.7	2360.6	2371.6	2406.6	2441.6	2464.9	2488.1	2469.5
57.5°	2490.6	2492.3	2490.4	2488.6	2505.8	2523.1	2567.2	2611.3	2640.4	2669.5	2646.3
60°	2634.1	2634.5	2630.3	2626.0	2644.8	2663.6	2727.0	2790.2	2828.0	2865.8	2833.9
62.5°	2794.5	2794.0	2786.7	2779.3	2801.4	2823.6	2902.1	2980.6	3032.4	3084.4	3045.5
65°	2991.1	2986.0	2981.8	2977.6	3003.2	3028.7	3126.2	3223.6	3293.7	3363.8	3313.8
67.5°	3281.0	3277.2	3268.4	3259.4	3288.0	3316.5	3441.4	3566.2	3656.8	3747.3	3681.3
70°	3600.0	3592.9	3599.0	3605.2	3671.0	3736.8	3904.3	4071.8	4179.0	4286.2	4175.2
72°	3442.6	3445.6	3466.0	3486.5	3601.9	3717.4	3955.4	4193.4	4348.4	4503.5	4332.0
72.5°	3387.8	3390.3	3413.5	3436.8	3546.9	3657.0	3902.4	4147.8	4308.4	4469.0	4292.5
75°	3154.9	3161.6	3188.4	3215.2	3326.8	3438.4	3686.0	3933.4	4087.2	4241.0	4064.4
77.5°	2774.6	2795.7	2822.9	2850.1	2983.1	3116.0	3395.8	3675.6	3845.4	4015.2	3814.8
80°	2117.6	2110.0	2156.8	2203.6	2330.7	2457.7	2674.2	2890.7	3086.3	3281.8	3056.5
82.5°	822.9	841.0	938.1	1035.2	1168.3	1301.4	1495.4	1689.2	1865.4	2041.6	1854.0
85°	84.8	96.6	131.4	166.2	238.8	311.4	429.6	547.8	663.6	779.4	653.7
87.5°	34.2	37.6	48.3	59.1	61.8	64.6	78.1	91.6	91.0	90.3	89.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1231.8	1232.2	1232.6	1232.6	1232.6	1233.3	1233.9	1233.1
5°	1232.2	1232.4	1232.6	1232.6	1232.6	1233.3	1233.9	1233.1
7.5°	1230.9	1231.0	1231.0	1231.6	1232.2	1232.4	1232.6	1232.2
10°	1228.8	1229.1	1229.3	1229.9	1230.6	1231.2	1231.8	1232.2
12.5°	1227.6	1227.8	1228.0	1228.7	1229.3	1229.9	1230.5	1231.4
15°	1227.6	1227.8	1228.0	1228.4	1228.8	1229.7	1230.6	1231.4
17.5°	1229.3	1228.9	1228.4	1228.8	1229.2	1230.3	1231.4	1232.2
20°	1233.9	1233.3	1232.6	1232.6	1232.6	1233.7	1234.8	1234.8
22.5°	1244.9	1242.8	1240.6	1240.2	1239.8	1240.0	1240.2	1240.7
25°	1262.2	1258.8	1255.4	1254.4	1253.3	1252.9	1252.5	1253.3
27.5°	1288.8	1285.0	1281.2	1278.9	1276.6	1275.3	1274.0	1274.4
30°	1321.7	1317.2	1312.8	1309.0	1305.2	1303.5	1301.8	1302.3
32.5°	1363.4	1358.2	1352.9	1347.9	1342.8	1340.5	1338.2	1338.6
35°	1416.6	1410.5	1404.4	1400.2	1395.9	1392.4	1388.8	1391.7
37.5°	1486.2	1480.6	1474.8	1472.1	1469.4	1466.2	1463.0	1463.5
40°	1580.0	1574.0	1568.2	1565.8	1563.5	1559.5	1555.5	1556.3
42.5°	1699.0	1690.1	1681.2	1677.0	1672.8	1670.9	1669.0	1670.3
45°	1827.2	1818.4	1809.5	1805.9	1802.4	1797.3	1792.2	1796.9
47.5°	1967.4	1956.2	1945.0	1938.6	1932.3	1934.0	1935.7	1931.9
50°	2124.8	2106.0	2087.2	2079.8	2072.4	2072.4	2072.4	2072.0
52.5°	2283.9	2257.9	2231.9	2225.6	2219.2	2217.8	2216.3	2214.6
55°	2451.0	2419.1	2387.2	2375.4	2363.6	2365.3	2367.0	2371.6
57.5°	2623.2	2581.2	2539.2	2525.6	2512.1	2513.2	2514.2	2521.8
60°	2802.0	2747.8	2693.6	2678.6	2663.6	2667.7	2671.7	2676.3
62.5°	3006.7	2941.1	2875.4	2855.4	2835.4	2840.4	2845.5	2857.8
65°	3263.8	3181.9	3100.0	3079.1	3058.2	3060.5	3062.8	3083.9
67.5°	3615.2	3506.2	3397.1	3377.9	3358.6	3362.0	3365.4	3399.6
70°	4064.2	3902.6	3741.0	3661.4	3581.9	3569.4	3557.0	3575.1
72°	4160.5	3932.2	3703.8	3586.6	3469.2	3450.9	3432.5	3434.2
72.5°	4116.1	3885.3	3654.5	3540.6	3426.6	3411.6	3396.6	3393.7
75°	3887.8	3662.1	3436.3	3318.6	3200.8	3172.4	3143.9	3143.9
77.5°	3614.4	3329.8	3045.1	2918.1	2791.0	2761.3	2731.6	2708.4
80°	2831.1	2576.0	2321.0	2192.0	2063.1	2015.4	1967.8	1939.5
82.5°	1666.5	1431.8	1197.2	1033.5	869.8	820.6	771.4	703.0
85°	528.0	406.2	284.5	222.0	159.5	128.9	98.3	86.1
87.5°	87.8	71.3	54.8	53.0	51.0	40.1	29.1	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)