

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: P193540

Luminaire Tested: **GAN-AF-02-LED-U-RW-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-RW-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8207 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 85
Input Voltage (V): NR
Input Current (A_{in}): 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

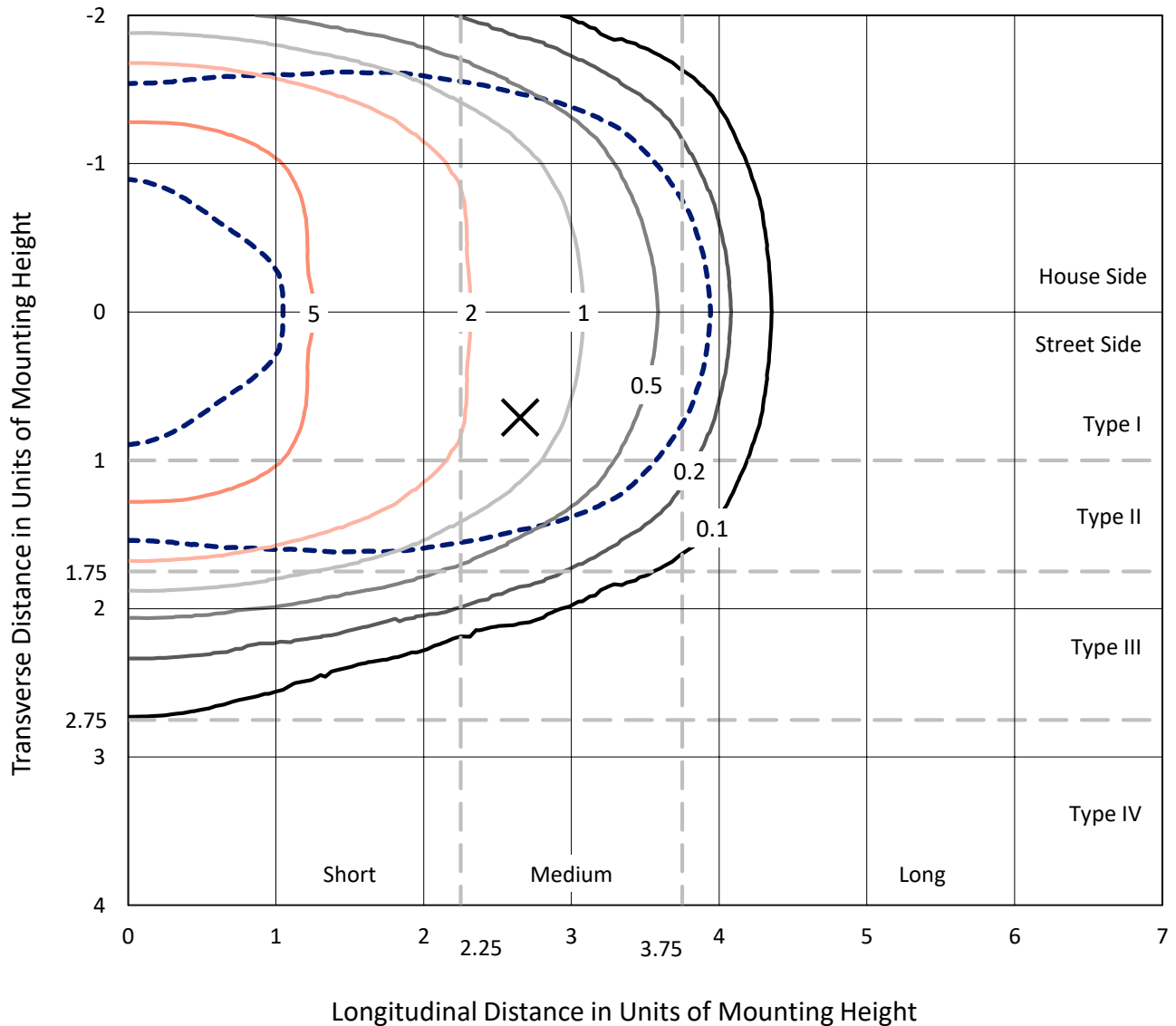


REPORT NUMBER: P193540

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

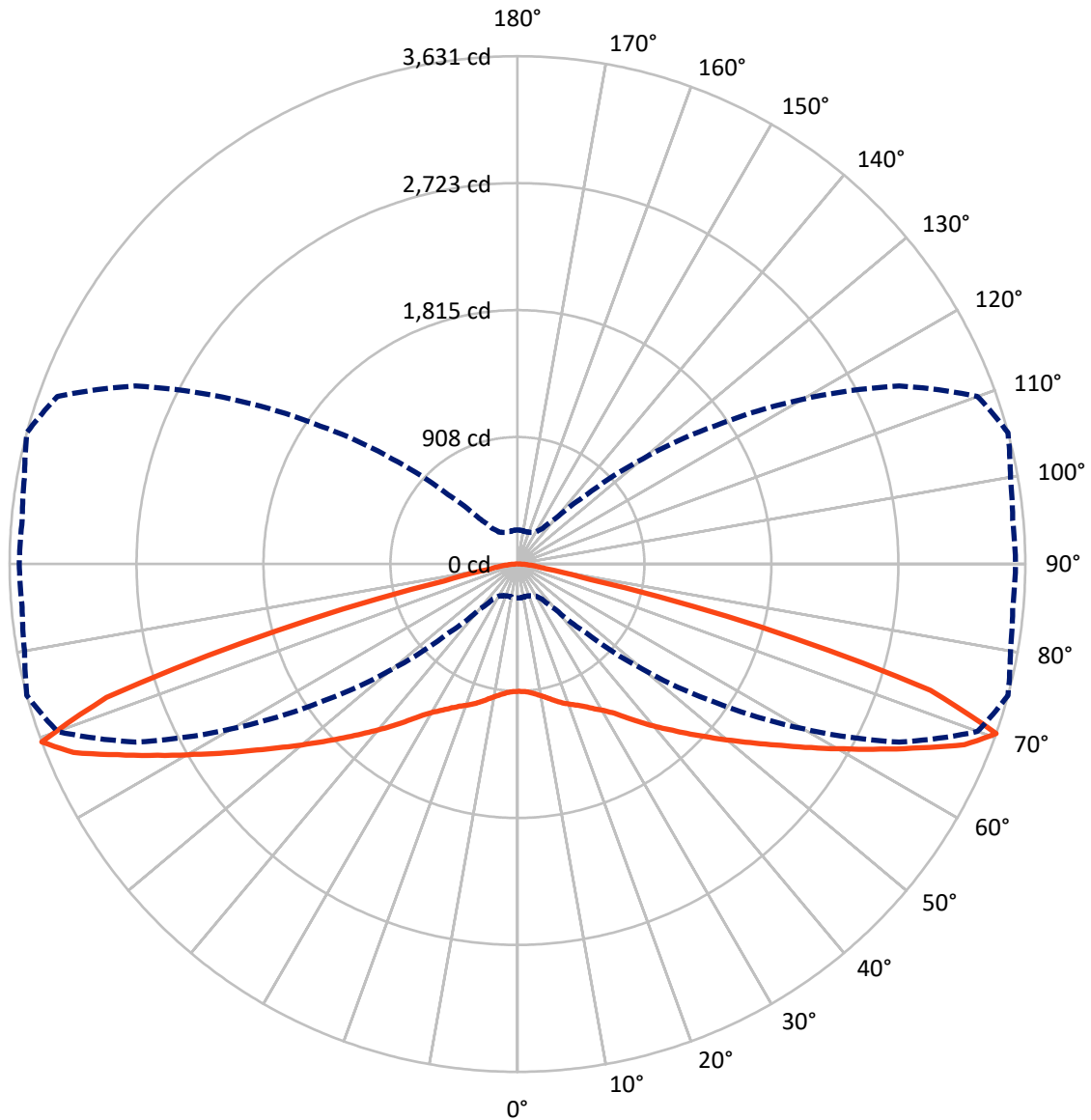


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P193540

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4103.5 | 0.0 | 4103.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4103.5 | 0.0 | 4103.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8207.0 | 0.0 | 8207.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.3 | 1.1 |
| 10°-20° | 271.3 | 3.3 |
| 20°-30° | 510.6 | 6.2 |
| 30°-40° | 904.2 | 11.0 |
| 40°-50° | 1512.1 | 18.4 |
| 50°-60° | 2107.1 | 25.7 |
| 60°-70° | 1954.0 | 23.8 |
| 70°-80° | 778.7 | 9.5 |
| 80°-90° | 81.9 | 1.0 |
| 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° | 8207.0 | 100.0 |
| 0°-180° | 8207.0 | 100.0 |



REPORT NUMBER: P193540

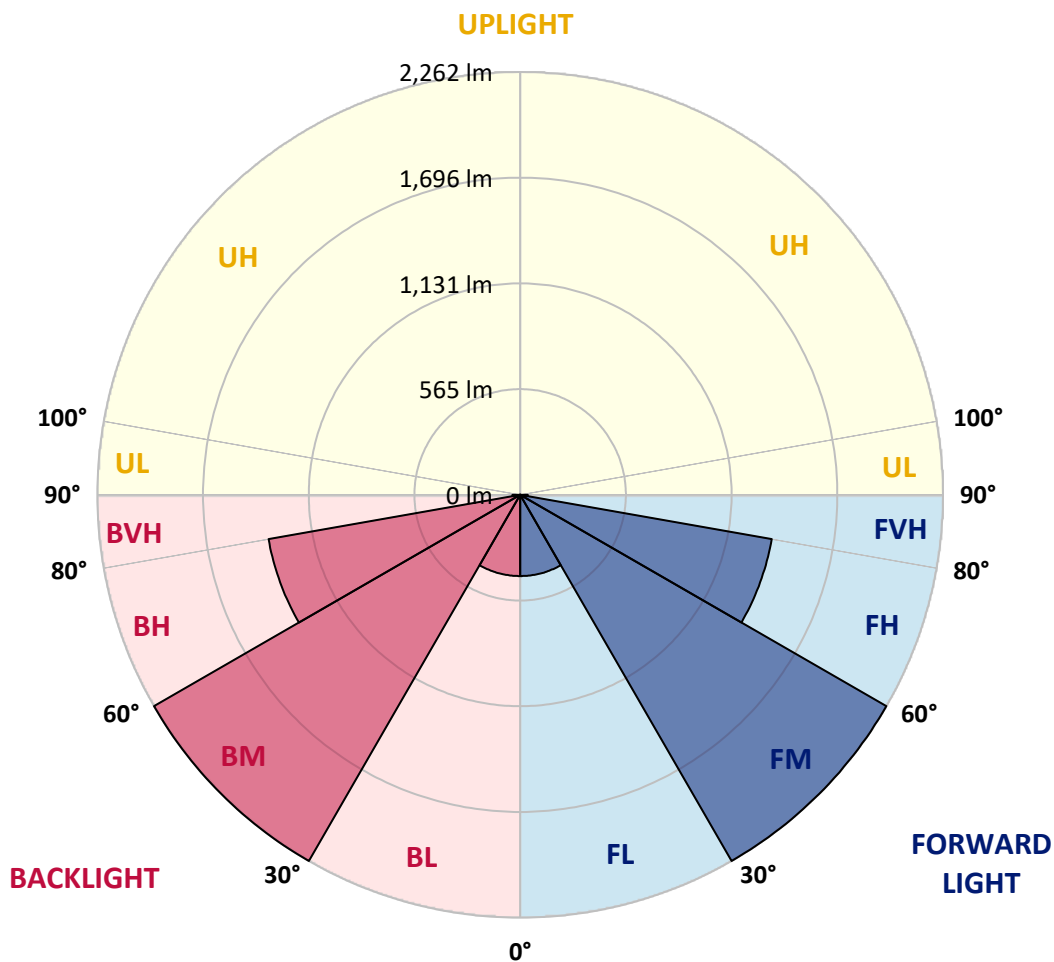
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 434.6 | 5.3 | | | |
| FM | (30°-60°) | 2261.6 | 27.6 | | | |
| FH | (60°-80°) | 1366.3 | 16.6 | | | G1/1800 |
| FVH | (80°-90°) | 40.9 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 434.6 | 5.3 | B1/500 | | |
| BM | (30°-60°) | 2261.6 | 27.6 | B2/2500 | | |
| BH | (60°-80°) | 1366.3 | 16.6 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 40.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Medium





REPORT NUMBER: P193540

CATALOG NUMBER: GAN-AF-02-LED-U-RW-8030-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 |
| 2.5° | 908.8 | 908.0 | 908.8 | 908.4 | 909.2 | 909.2 | 910.0 | 911.5 | 911.5 | 912.7 | 912.3 |
| 5° | 899.9 | 899.5 | 900.7 | 901.8 | 903.0 | 905.3 | 907.6 | 911.1 | 913.8 | 915.8 | 917.7 |
| 7.5° | 882.4 | 882.4 | 884.0 | 886.7 | 889.4 | 894.4 | 899.9 | 906.9 | 913.8 | 919.7 | 924.7 |
| 10° | 868.1 | 868.8 | 870.8 | 875.4 | 880.1 | 887.9 | 895.2 | 905.3 | 915.0 | 924.7 | 932.5 |
| 12.5° | 859.5 | 860.7 | 864.2 | 871.2 | 878.9 | 889.4 | 900.7 | 913.5 | 924.3 | 935.9 | 943.7 |
| 15° | 862.3 | 863.0 | 868.1 | 876.6 | 886.7 | 899.9 | 915.0 | 930.1 | 942.9 | 955.3 | 965.8 |
| 17.5° | 877.4 | 878.5 | 884.4 | 894.1 | 904.5 | 920.0 | 936.3 | 953.4 | 969.3 | 983.3 | 996.1 |
| 20° | 904.5 | 905.7 | 913.1 | 923.5 | 935.9 | 951.9 | 968.1 | 986.0 | 1003.8 | 1018.6 | 1032.9 |
| 22.5° | 942.9 | 944.9 | 951.9 | 962.3 | 976.3 | 993.4 | 1012.7 | 1031.8 | 1048.8 | 1062.4 | 1075.2 |
| 25° | 993.4 | 997.6 | 1004.2 | 1015.9 | 1030.6 | 1046.1 | 1067.0 | 1086.4 | 1102.7 | 1115.5 | 1124.8 |
| 27.5° | 1064.7 | 1070.5 | 1075.6 | 1086.8 | 1101.2 | 1115.9 | 1136.9 | 1153.9 | 1169.4 | 1181.9 | 1188.8 |
| 30° | 1159.4 | 1165.2 | 1170.2 | 1181.1 | 1194.3 | 1208.2 | 1228.0 | 1243.1 | 1252.8 | 1262.5 | 1262.2 |
| 32.5° | 1274.2 | 1280.4 | 1282.3 | 1294.0 | 1307.5 | 1322.7 | 1340.5 | 1349.0 | 1356.8 | 1358.0 | 1351.0 |
| 35° | 1402.6 | 1405.7 | 1413.4 | 1428.9 | 1444.5 | 1456.9 | 1473.9 | 1478.2 | 1478.2 | 1472.4 | 1456.9 |
| 37.5° | 1543.4 | 1545.3 | 1556.2 | 1573.6 | 1589.5 | 1602.3 | 1614.0 | 1622.5 | 1618.2 | 1605.8 | 1579.8 |
| 40° | 1697.7 | 1701.2 | 1716.7 | 1732.3 | 1750.1 | 1762.1 | 1774.5 | 1776.1 | 1771.8 | 1753.6 | 1718.3 |
| 42.5° | 1845.1 | 1848.2 | 1863.7 | 1888.2 | 1911.5 | 1928.1 | 1939.8 | 1942.1 | 1928.5 | 1911.8 | 1868.0 |
| 45° | 1972.0 | 1980.1 | 2000.3 | 2029.0 | 2062.7 | 2086.4 | 2102.3 | 2108.9 | 2096.9 | 2075.1 | 2024.3 |
| 47.5° | 2072.4 | 2080.6 | 2109.3 | 2143.4 | 2185.3 | 2223.7 | 2250.1 | 2264.0 | 2260.9 | 2244.6 | 2189.2 |
| 50° | 2146.1 | 2153.9 | 2184.9 | 2226.8 | 2275.7 | 2323.4 | 2368.4 | 2401.7 | 2413.4 | 2406.0 | 2355.2 |
| 52.5° | 2154.7 | 2167.5 | 2203.9 | 2260.2 | 2323.8 | 2388.9 | 2452.9 | 2509.6 | 2548.0 | 2553.8 | 2516.2 |
| 55° | 2035.6 | 2048.4 | 2098.8 | 2182.2 | 2276.8 | 2383.1 | 2485.5 | 2580.9 | 2656.6 | 2695.4 | 2675.6 |
| 57.5° | 1754.8 | 1777.6 | 1830.8 | 1928.5 | 2067.8 | 2226.8 | 2390.1 | 2559.6 | 2713.6 | 2816.4 | 2836.2 |
| 60° | 1344.8 | 1371.9 | 1425.4 | 1529.4 | 1684.6 | 1874.2 | 2092.2 | 2342.8 | 2614.7 | 2845.9 | 2983.9 |
| 62.5° | 862.6 | 888.2 | 944.5 | 1034.9 | 1161.3 | 1366.9 | 1600.8 | 1898.3 | 2263.7 | 2628.6 | 2957.6 |
| 65° | 443.3 | 457.3 | 486.8 | 541.5 | 640.0 | 793.6 | 1003.4 | 1300.2 | 1717.9 | 2168.2 | 2643.8 |
| 67.5° | 280.8 | 283.5 | 290.1 | 297.9 | 323.1 | 376.2 | 474.0 | 659.0 | 1002.7 | 1472.4 | 2029.0 |
| 70° | 242.8 | 242.8 | 239.7 | 238.5 | 241.6 | 249.0 | 264.1 | 307.2 | 423.2 | 699.0 | 1170.2 |
| 72.5° | 222.3 | 219.9 | 214.5 | 210.2 | 209.5 | 209.5 | 212.6 | 219.2 | 237.8 | 284.7 | 458.1 |
| 75° | 204.8 | 198.2 | 190.8 | 185.8 | 183.9 | 181.9 | 181.5 | 182.7 | 186.6 | 193.9 | 218.8 |
| 77.5° | 183.5 | 174.9 | 166.4 | 161.4 | 159.0 | 156.3 | 154.0 | 151.3 | 149.3 | 151.7 | 162.5 |
| 80° | 157.9 | 148.2 | 141.6 | 138.5 | 136.1 | 132.3 | 127.2 | 122.6 | 118.3 | 117.5 | 124.1 |
| 82.5° | 127.2 | 116.0 | 116.4 | 117.5 | 113.3 | 107.8 | 102.4 | 97.4 | 90.0 | 86.1 | 90.0 |
| 85° | 102.8 | 97.0 | 94.3 | 101.6 | 95.4 | 87.3 | 78.7 | 69.8 | 58.2 | 48.9 | 53.1 |
| 87.5° | 40.0 | 40.0 | 59.7 | 91.9 | 82.6 | 67.5 | 57.8 | 49.3 | 30.6 | 23.7 | 24.0 |
| 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: P193540

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 | 910.3 |
| 2.5° | 911.9 | 912.7 | 912.3 | 911.9 | 911.9 | 911.5 | 911.9 | 911.9 |
| 5° | 918.9 | 920.8 | 920.8 | 921.6 | 921.6 | 922.0 | 922.4 | 922.0 |
| 7.5° | 929.4 | 932.8 | 935.2 | 937.9 | 938.3 | 938.7 | 939.4 | 938.7 |
| 10° | 939.8 | 946.8 | 951.9 | 956.9 | 959.2 | 960.0 | 960.8 | 960.8 |
| 12.5° | 953.0 | 962.7 | 971.6 | 980.6 | 984.8 | 987.1 | 987.1 | 988.7 |
| 15° | 974.7 | 984.4 | 994.9 | 1006.9 | 1014.3 | 1018.2 | 1019.3 | 1019.3 |
| 17.5° | 1005.4 | 1013.9 | 1022.8 | 1034.5 | 1043.8 | 1048.8 | 1050.0 | 1049.6 |
| 20° | 1041.1 | 1049.2 | 1054.2 | 1061.6 | 1069.8 | 1075.6 | 1077.1 | 1077.1 |
| 22.5° | 1081.8 | 1086.4 | 1087.2 | 1089.5 | 1096.1 | 1103.9 | 1107.4 | 1108.2 |
| 25° | 1126.8 | 1127.9 | 1124.8 | 1124.8 | 1129.1 | 1136.5 | 1140.0 | 1140.4 |
| 27.5° | 1185.0 | 1179.1 | 1171.4 | 1168.7 | 1171.4 | 1179.9 | 1184.2 | 1185.7 |
| 30° | 1257.5 | 1243.5 | 1225.7 | 1216.0 | 1214.4 | 1225.7 | 1233.4 | 1234.6 |
| 32.5° | 1340.5 | 1320.3 | 1296.7 | 1276.9 | 1271.8 | 1278.8 | 1288.1 | 1287.8 |
| 35° | 1439.0 | 1415.0 | 1386.3 | 1361.1 | 1349.4 | 1356.4 | 1369.6 | 1371.1 |
| 37.5° | 1552.7 | 1521.3 | 1488.3 | 1456.5 | 1438.2 | 1440.2 | 1454.2 | 1458.8 |
| 40° | 1679.5 | 1638.8 | 1597.3 | 1554.6 | 1528.6 | 1523.6 | 1540.6 | 1543.4 |
| 42.5° | 1815.3 | 1762.9 | 1710.5 | 1657.8 | 1624.4 | 1616.7 | 1636.5 | 1635.3 |
| 45° | 1959.9 | 1893.2 | 1831.9 | 1773.8 | 1734.2 | 1722.6 | 1738.9 | 1738.9 |
| 47.5° | 2115.5 | 2033.3 | 1960.3 | 1894.4 | 1851.3 | 1834.7 | 1850.2 | 1851.3 |
| 50° | 2280.3 | 2193.1 | 2107.3 | 2034.0 | 1982.4 | 1961.1 | 1981.3 | 1984.4 |
| 52.5° | 2444.4 | 2359.5 | 2273.0 | 2189.2 | 2126.7 | 2100.7 | 2124.0 | 2134.1 |
| 55° | 2610.8 | 2527.4 | 2444.8 | 2362.9 | 2288.9 | 2258.2 | 2283.0 | 2295.8 |
| 57.5° | 2786.5 | 2709.3 | 2630.6 | 2548.0 | 2476.6 | 2428.9 | 2455.3 | 2472.3 |
| 60° | 2992.5 | 2926.5 | 2844.7 | 2753.5 | 2681.4 | 2632.9 | 2648.0 | 2663.2 |
| 62.5° | 3155.4 | 3181.0 | 3111.6 | 3006.0 | 2913.3 | 2851.3 | 2866.0 | 2881.9 |
| 65° | 3076.6 | 3339.2 | 3400.9 | 3294.2 | 3165.9 | 3069.3 | 3063.1 | 3071.2 |
| 67.5° | 2571.6 | 3081.7 | 3453.7 | 3555.3 | 3447.8 | 3313.6 | 3288.8 | 3300.8 |
| 70° | 1720.2 | 2355.6 | 3011.9 | 3500.6 | 3630.5 | 3578.6 | 3554.1 | 3561.5 |
| 72.5° | 826.2 | 1371.9 | 2043.3 | 2693.0 | 3088.7 | 3270.2 | 3328.4 | 3356.7 |
| 75° | 302.2 | 544.6 | 984.8 | 1484.0 | 1791.6 | 2074.0 | 2258.2 | 2333.5 |
| 77.5° | 182.3 | 219.9 | 314.6 | 473.6 | 536.4 | 600.4 | 575.6 | 588.0 |
| 80° | 135.0 | 152.4 | 172.6 | 193.9 | 200.9 | 200.9 | 193.2 | 187.0 |
| 82.5° | 94.6 | 105.9 | 115.6 | 127.2 | 130.3 | 124.5 | 102.4 | 81.5 |
| 85° | 60.9 | 65.9 | 70.2 | 77.6 | 75.6 | 72.1 | 48.5 | 43.1 |
| 87.5° | 27.9 | 31.8 | 33.4 | 36.8 | 35.3 | 33.7 | 24.0 | 20.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)