

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: P481389

Luminaire Tested: **IFLD-S-SA2B-827-U-RW**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481389
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

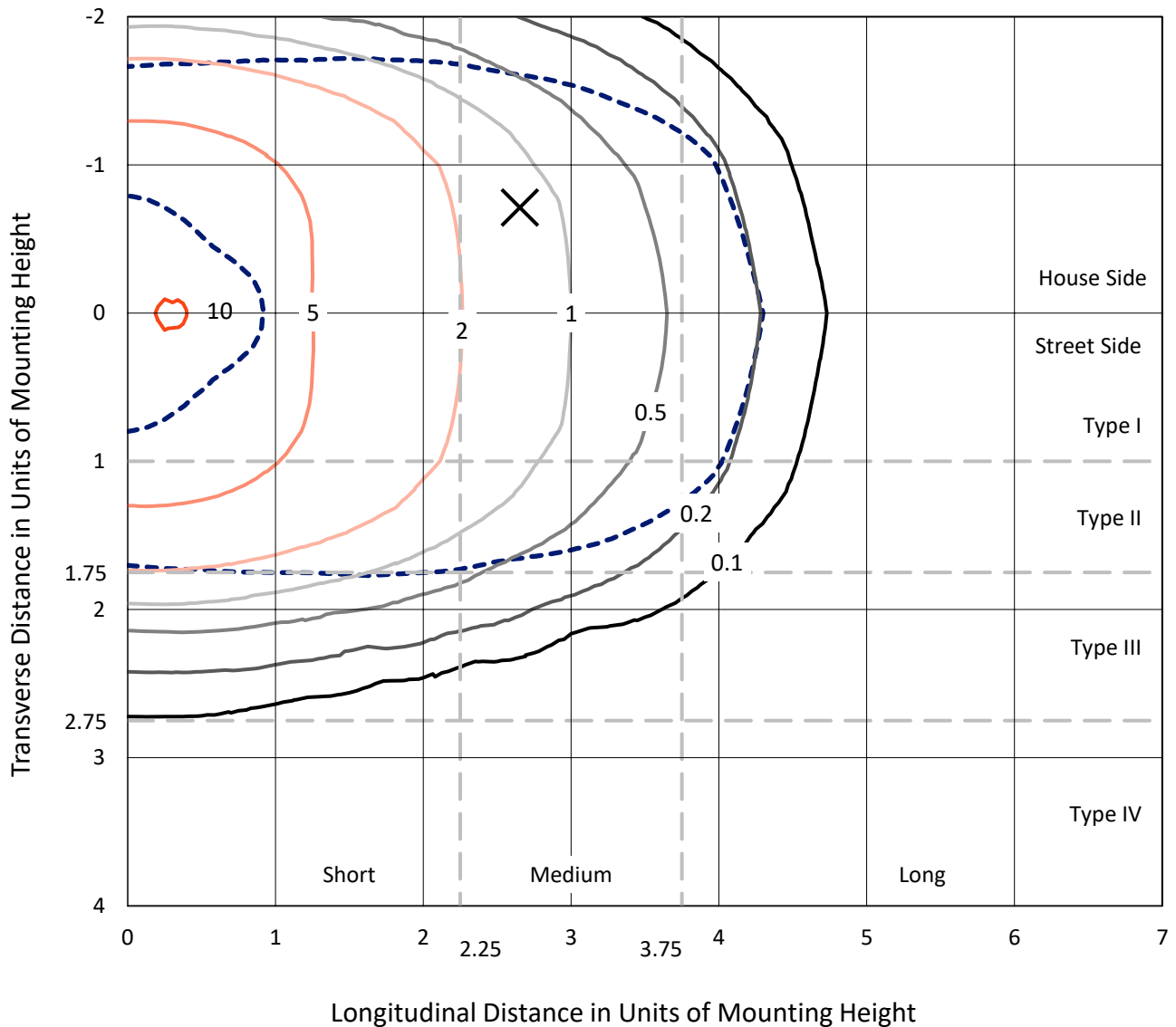
Lumens per Lamp: N/A
Luminaire Lumens: 8645.2 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 82.4
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

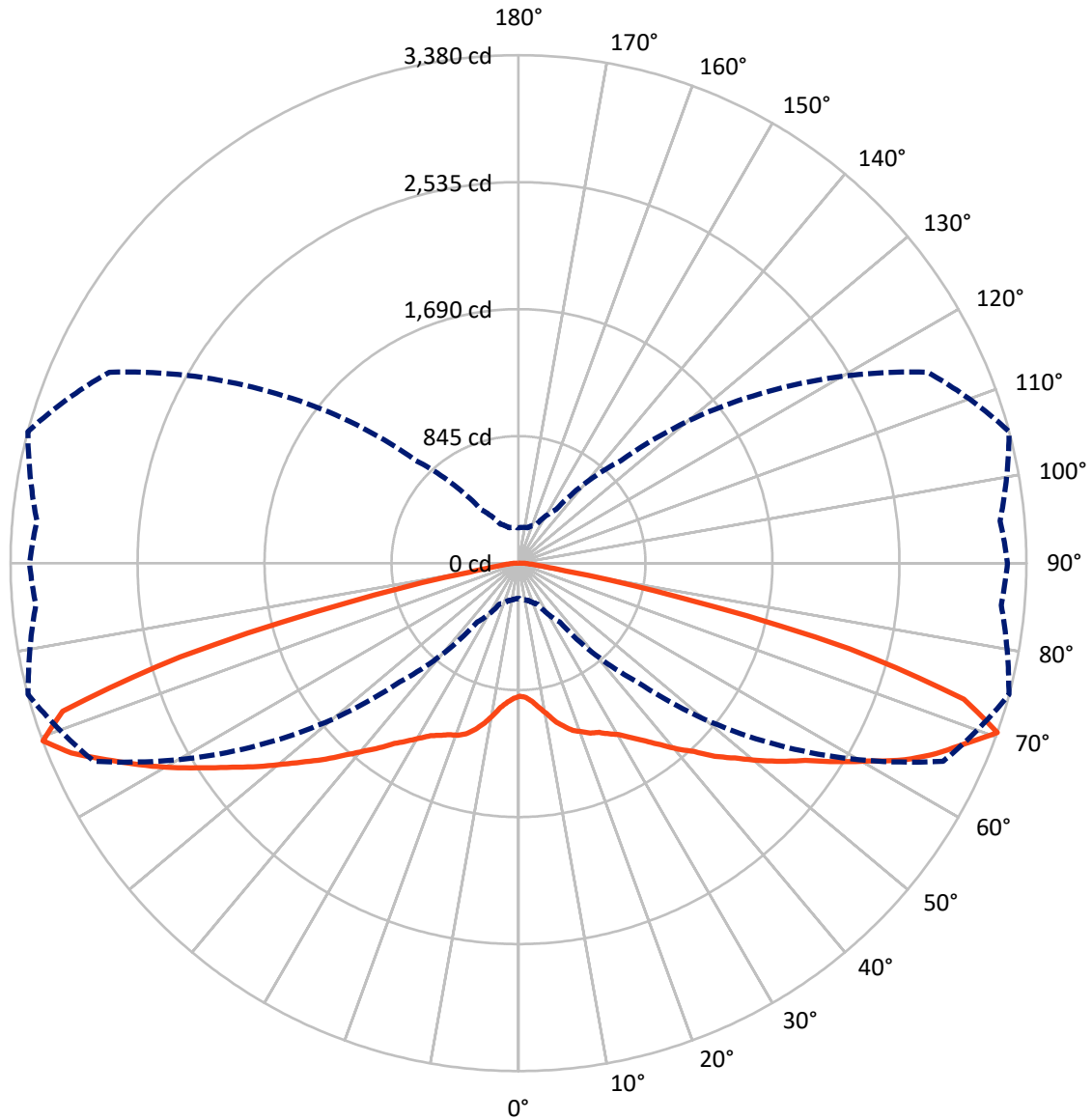
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4291.9 | 0.0 | 4291.9 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 4353.4 | 0.0 | 4353.4 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 8645.2 | 0.0 | 8645.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.1 | 1.0 |
| 10°-20° | 300.0 | 3.5 |
| 20°-30° | 580.9 | 6.7 |
| 30°-40° | 982.6 | 11.4 |
| 40°-50° | 1567.6 | 18.1 |
| 50°-60° | 2145.6 | 24.8 |
| 60°-70° | 2022.4 | 23.4 |
| 70°-80° | 890.9 | 10.3 |
| 80°-90° | 67.0 | 0.8 |
| 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° | 8645.2 | 100.0 |
| 0°-180° | 8645.2 | 100.0 |

Coefficient of Utilization



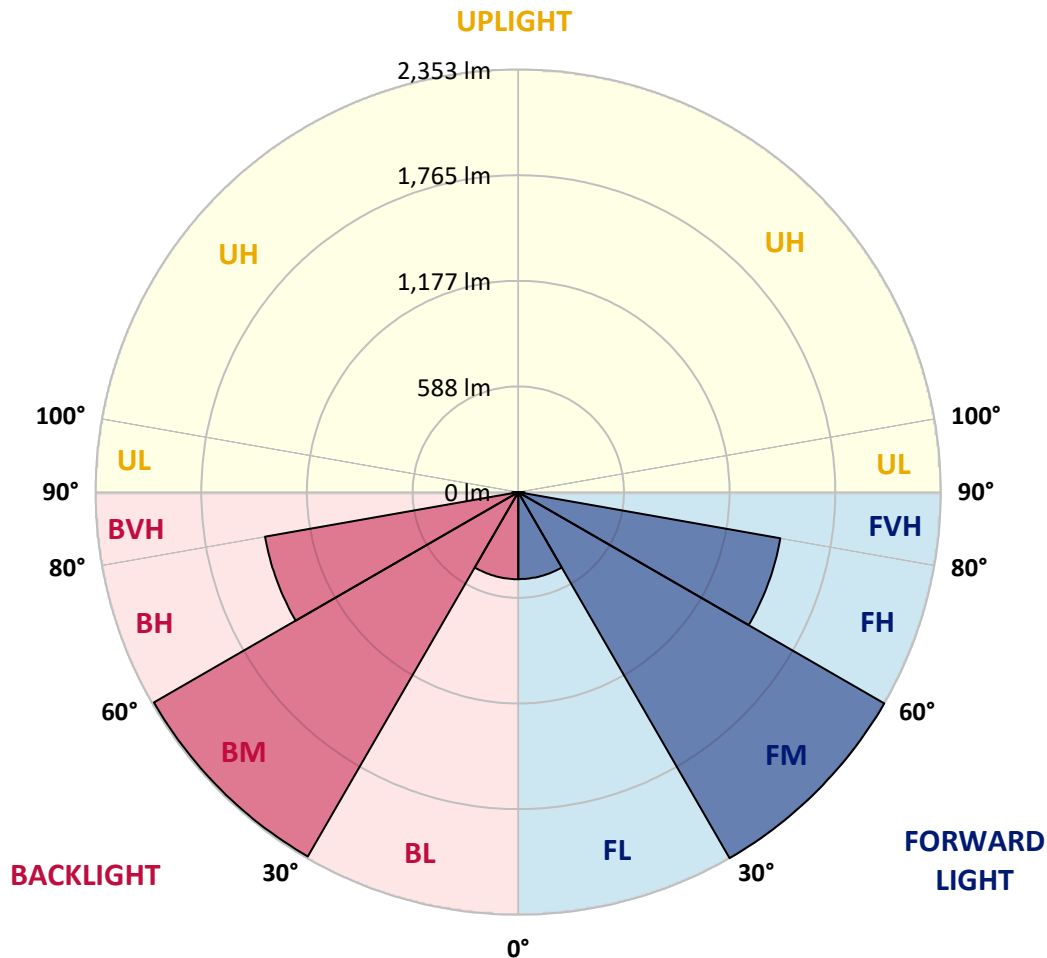
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 484.3 | 5.6 | | | |
| FM (30°-60°) | 2353.1 | 27.2 | | | |
| FH (60°-80°) | 1481.7 | 17.1 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 484.8 | 5.6 | B1/500 | | |
| BM (30°-60°) | 2342.6 | 27.1 | B2/2500 | | |
| BH (60°-80°) | 1431.6 | 16.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 32.8 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 |
| 2.5° | 879.7 | 879.7 | 878.7 | 883.4 | 888.1 | 889.9 | 893.6 | 894.6 | 900.2 | 895.5 | 904.8 |
| 5° | 876.9 | 875.9 | 883.4 | 894.6 | 894.6 | 906.7 | 914.2 | 924.4 | 927.2 | 932.8 | 934.7 |
| 7.5° | 896.4 | 894.6 | 890.9 | 903.0 | 913.2 | 931.9 | 942.1 | 959.8 | 966.3 | 973.8 | 982.2 |
| 10° | 908.6 | 908.6 | 904.8 | 926.3 | 935.6 | 960.7 | 983.1 | 1000.8 | 1026.0 | 1034.4 | 1035.3 |
| 12.5° | 910.4 | 913.2 | 924.4 | 952.4 | 978.4 | 1011.1 | 1027.8 | 1061.4 | 1086.5 | 1102.4 | 1108.0 |
| 15° | 938.4 | 932.8 | 944.9 | 983.1 | 1021.3 | 1050.2 | 1080.0 | 1104.2 | 1140.6 | 1161.1 | 1174.1 |
| 17.5° | 963.5 | 957.9 | 980.3 | 1026.0 | 1065.1 | 1109.8 | 1135.9 | 1162.0 | 1188.1 | 1206.8 | 1207.7 |
| 20° | 1003.6 | 1008.3 | 1027.8 | 1077.2 | 1128.5 | 1167.6 | 1197.4 | 1202.1 | 1215.1 | 1242.2 | 1237.5 |
| 22.5° | 1053.0 | 1049.3 | 1090.3 | 1144.3 | 1200.2 | 1232.8 | 1249.6 | 1237.5 | 1231.0 | 1259.9 | 1266.4 |
| 25° | 1102.4 | 1113.6 | 1150.8 | 1201.2 | 1268.3 | 1312.1 | 1316.7 | 1283.2 | 1258.9 | 1269.2 | 1266.4 |
| 27.5° | 1177.9 | 1179.7 | 1218.9 | 1278.5 | 1346.5 | 1384.7 | 1381.9 | 1334.4 | 1287.8 | 1288.8 | 1290.6 |
| 30° | 1274.8 | 1265.5 | 1308.3 | 1362.4 | 1429.5 | 1463.9 | 1468.6 | 1400.6 | 1338.1 | 1319.5 | 1324.2 |
| 32.5° | 1368.0 | 1379.1 | 1416.4 | 1477.9 | 1527.3 | 1546.9 | 1536.6 | 1476.1 | 1395.0 | 1369.8 | 1372.6 |
| 35° | 1487.2 | 1485.4 | 1536.6 | 1588.8 | 1626.1 | 1629.8 | 1621.4 | 1532.9 | 1456.5 | 1423.9 | 1410.8 |
| 37.5° | 1614.9 | 1631.7 | 1665.2 | 1708.1 | 1747.2 | 1749.1 | 1703.4 | 1632.6 | 1538.5 | 1484.4 | 1500.3 |
| 40° | 1757.5 | 1776.1 | 1800.3 | 1862.8 | 1891.7 | 1861.8 | 1815.3 | 1719.3 | 1621.4 | 1573.9 | 1581.4 |
| 42.5° | 1883.3 | 1891.7 | 1941.1 | 2014.7 | 2028.6 | 2015.6 | 1946.6 | 1830.2 | 1716.5 | 1664.3 | 1668.0 |
| 45° | 1998.8 | 2010.0 | 2074.3 | 2140.5 | 2173.1 | 2150.7 | 2070.6 | 1959.7 | 1827.4 | 1782.6 | 1764.9 |
| 47.5° | 2105.1 | 2127.4 | 2189.9 | 2257.9 | 2308.2 | 2310.1 | 2211.3 | 2077.1 | 1937.3 | 1878.6 | 1877.7 |
| 50° | 2176.8 | 2209.4 | 2270.9 | 2348.3 | 2421.9 | 2450.8 | 2352.0 | 2207.6 | 2057.5 | 1995.1 | 1988.6 |
| 52.5° | 2216.0 | 2249.5 | 2311.0 | 2431.2 | 2513.2 | 2557.9 | 2511.4 | 2329.6 | 2198.2 | 2133.0 | 2122.8 |
| 55° | 2168.4 | 2190.8 | 2291.4 | 2460.1 | 2586.8 | 2660.4 | 2629.7 | 2498.3 | 2338.0 | 2284.9 | 2294.2 |
| 57.5° | 1966.2 | 2012.8 | 2136.7 | 2347.3 | 2585.0 | 2765.7 | 2763.0 | 2657.7 | 2499.2 | 2448.9 | 2450.8 |
| 60° | 1618.6 | 1657.8 | 1810.6 | 2105.1 | 2480.6 | 2808.6 | 2907.4 | 2812.3 | 2680.0 | 2621.3 | 2619.4 |
| 62.5° | 1142.5 | 1191.8 | 1368.9 | 1690.4 | 2173.1 | 2749.0 | 3073.3 | 3007.1 | 2857.1 | 2814.2 | 2830.0 |
| 65° | 639.3 | 669.1 | 833.1 | 1123.8 | 1655.9 | 2421.0 | 3103.1 | 3209.3 | 3036.9 | 2971.7 | 2974.5 |
| 67.5° | 342.0 | 353.2 | 429.6 | 589.9 | 1012.9 | 1866.5 | 2802.1 | 3325.8 | 3231.7 | 3118.9 | 3101.2 |
| 70° | 234.8 | 238.6 | 258.1 | 301.9 | 479.0 | 1116.4 | 2113.4 | 3118.0 | 3378.0 | 3224.2 | 3254.0 |
| 72.5° | 198.5 | 196.6 | 201.3 | 205.9 | 250.7 | 499.5 | 1240.3 | 2399.5 | 3188.8 | 3131.0 | 3119.9 |
| 75° | 172.4 | 171.5 | 173.3 | 168.7 | 174.3 | 219.9 | 548.9 | 1495.6 | 2334.3 | 2605.5 | 2647.4 |
| 77.5° | 142.6 | 143.5 | 144.4 | 139.8 | 137.9 | 145.4 | 220.8 | 657.0 | 1149.0 | 1268.3 | 1368.0 |
| 80° | 108.1 | 110.0 | 117.4 | 112.8 | 105.3 | 106.2 | 130.5 | 219.9 | 329.9 | 299.1 | 308.4 |
| 82.5° | 73.6 | 74.5 | 90.4 | 84.8 | 79.2 | 71.8 | 83.9 | 113.7 | 128.6 | 97.8 | 85.7 |
| 85° | 52.2 | 51.3 | 58.7 | 54.0 | 50.3 | 36.3 | 50.3 | 64.3 | 77.3 | 48.5 | 43.8 |
| 87.5° | 12.1 | 12.1 | 24.2 | 19.6 | 18.6 | 14.9 | 19.6 | 25.2 | 33.5 | 21.4 | 19.6 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 | 885.3 |
| 2.5° | 902.0 | 893.6 | 893.6 | 891.8 | 884.3 | 882.5 | 875.9 | 877.8 | 873.1 | 868.5 |
| 5° | 933.7 | 922.5 | 922.5 | 906.7 | 891.8 | 889.9 | 882.5 | 882.5 | 875.0 | 876.9 |
| 7.5° | 977.5 | 967.3 | 950.5 | 936.5 | 916.0 | 907.6 | 893.6 | 891.8 | 889.9 | 886.2 |
| 10° | 1029.7 | 1016.7 | 999.9 | 971.0 | 954.2 | 938.4 | 924.4 | 904.8 | 900.2 | 901.1 |
| 12.5° | 1100.5 | 1080.0 | 1043.7 | 1018.5 | 997.1 | 976.6 | 956.1 | 927.2 | 920.7 | 923.5 |
| 15° | 1150.8 | 1124.7 | 1088.4 | 1079.1 | 1050.2 | 1025.0 | 991.5 | 958.9 | 947.7 | 944.9 |
| 17.5° | 1191.8 | 1170.4 | 1149.0 | 1135.0 | 1111.7 | 1081.0 | 1034.4 | 997.1 | 971.9 | 969.1 |
| 20° | 1225.4 | 1197.4 | 1192.8 | 1201.2 | 1172.3 | 1151.8 | 1094.9 | 1049.3 | 1015.7 | 1001.7 |
| 22.5° | 1245.9 | 1228.2 | 1241.2 | 1248.7 | 1246.8 | 1212.3 | 1153.6 | 1100.5 | 1058.6 | 1045.5 |
| 25° | 1268.3 | 1247.8 | 1294.3 | 1319.5 | 1326.0 | 1269.2 | 1223.5 | 1153.6 | 1112.6 | 1104.2 |
| 27.5° | 1279.4 | 1286.9 | 1340.9 | 1394.1 | 1389.4 | 1345.6 | 1284.1 | 1221.7 | 1189.0 | 1174.1 |
| 30° | 1312.1 | 1324.2 | 1406.2 | 1465.8 | 1466.7 | 1423.9 | 1377.3 | 1306.5 | 1270.1 | 1263.6 |
| 32.5° | 1370.8 | 1385.7 | 1473.3 | 1536.6 | 1547.8 | 1515.2 | 1468.6 | 1424.8 | 1387.5 | 1372.6 |
| 35° | 1415.5 | 1453.7 | 1552.5 | 1610.2 | 1640.1 | 1620.5 | 1594.4 | 1548.7 | 1509.6 | 1496.6 |
| 37.5° | 1479.8 | 1532.9 | 1628.0 | 1706.2 | 1739.8 | 1737.9 | 1718.3 | 1669.0 | 1636.3 | 1625.2 |
| 40° | 1572.0 | 1625.2 | 1711.8 | 1815.3 | 1877.7 | 1874.9 | 1863.7 | 1825.5 | 1777.0 | 1771.5 |
| 42.5° | 1669.9 | 1713.7 | 1826.4 | 1944.8 | 2034.2 | 2024.9 | 1995.1 | 1950.4 | 1916.8 | 1909.4 |
| 45° | 1764.9 | 1833.0 | 1937.3 | 2089.2 | 2156.3 | 2179.6 | 2144.2 | 2067.8 | 2029.6 | 2024.9 |
| 47.5° | 1884.2 | 1938.3 | 2068.7 | 2204.8 | 2304.5 | 2308.2 | 2247.6 | 2176.8 | 2106.9 | 2121.8 |
| 50° | 1990.4 | 2062.2 | 2194.5 | 2343.6 | 2462.9 | 2420.0 | 2342.7 | 2254.2 | 2203.8 | 2184.3 |
| 52.5° | 2104.1 | 2191.7 | 2345.5 | 2497.4 | 2563.5 | 2520.7 | 2394.9 | 2296.1 | 2219.7 | 2211.3 |
| 55° | 2270.0 | 2315.7 | 2516.9 | 2633.4 | 2654.9 | 2564.5 | 2379.0 | 2239.2 | 2140.5 | 2116.2 |
| 57.5° | 2438.7 | 2491.8 | 2667.9 | 2768.5 | 2746.2 | 2540.2 | 2276.5 | 2060.3 | 1930.8 | 1896.3 |
| 60° | 2609.2 | 2674.4 | 2822.6 | 2914.8 | 2799.3 | 2373.4 | 1986.7 | 1708.1 | 1557.1 | 1526.4 |
| 62.5° | 2799.3 | 2884.1 | 3016.4 | 3049.0 | 2641.8 | 2043.6 | 1576.7 | 1232.8 | 1080.0 | 1028.8 |
| 65° | 2968.0 | 3054.6 | 3217.7 | 3021.1 | 2307.3 | 1524.5 | 1019.5 | 704.5 | 591.7 | 550.7 |
| 67.5° | 3106.8 | 3204.7 | 3284.8 | 2673.5 | 1689.5 | 892.7 | 531.2 | 370.9 | 328.9 | 314.0 |
| 70° | 3216.8 | 3379.8 | 3005.2 | 1965.3 | 965.4 | 435.2 | 287.0 | 244.1 | 238.6 | 234.8 |
| 72.5° | 3120.8 | 3099.4 | 2243.9 | 1134.1 | 423.1 | 239.5 | 207.8 | 201.3 | 200.3 | 201.3 |
| 75° | 2552.4 | 2276.5 | 1341.9 | 493.0 | 212.5 | 173.3 | 172.4 | 169.6 | 174.3 | 174.3 |
| 77.5° | 1238.4 | 1082.8 | 561.0 | 211.5 | 139.8 | 136.1 | 140.7 | 140.7 | 140.7 | 140.7 |
| 80° | 287.0 | 317.8 | 200.3 | 128.6 | 101.6 | 101.6 | 111.8 | 112.8 | 108.1 | 106.2 |
| 82.5° | 97.8 | 130.5 | 110.0 | 81.1 | 67.1 | 75.5 | 84.8 | 86.7 | 71.8 | 72.7 |
| 85° | 48.5 | 76.4 | 59.6 | 46.6 | 34.5 | 46.6 | 55.0 | 57.8 | 49.4 | 47.5 |
| 87.5° | 22.4 | 33.5 | 22.4 | 15.8 | 12.1 | 16.8 | 15.8 | 13.0 | 7.5 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)