

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: McGRAW-EDISON

Report Number: P595411

Luminaire Tested: **IST-PA1F-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-827-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8184 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

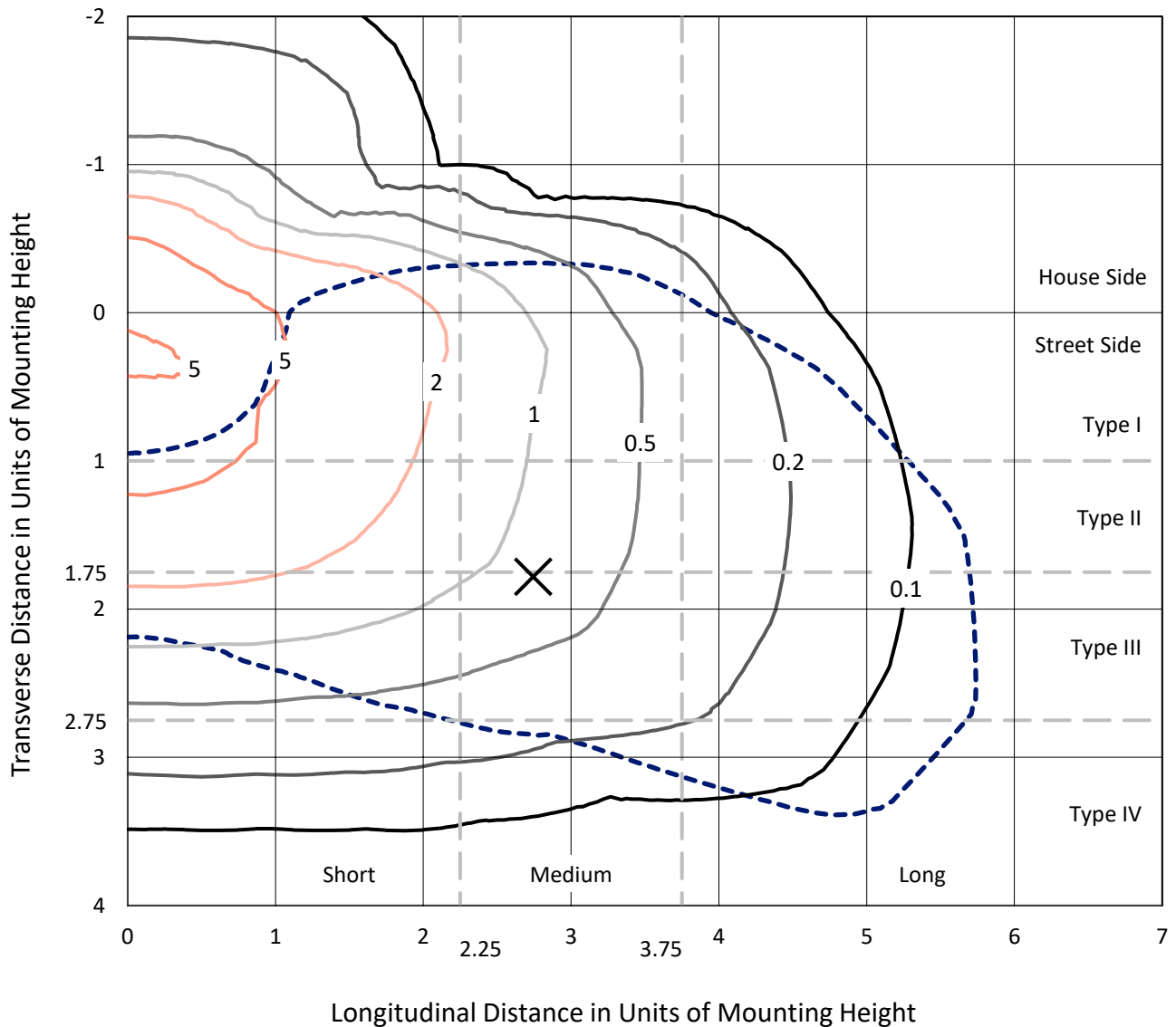
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595411
 CATALOG NUMBER: IST-PA1F-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

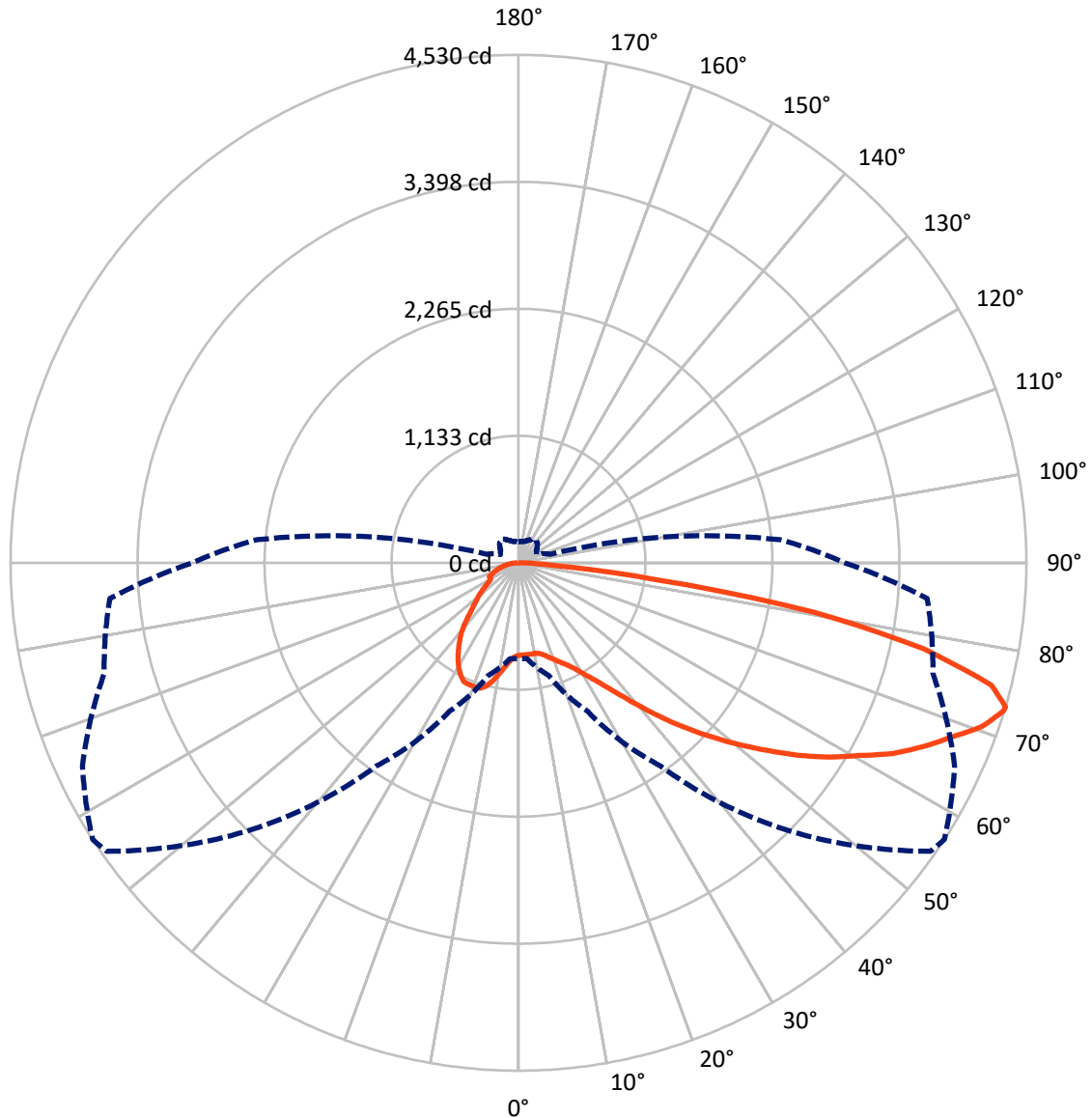
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595411
CATALOG NUMBER: IST-PA1F-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



REPORT NUMBER: P595411
 CATALOG NUMBER: IST-PA1F-827-U-T3

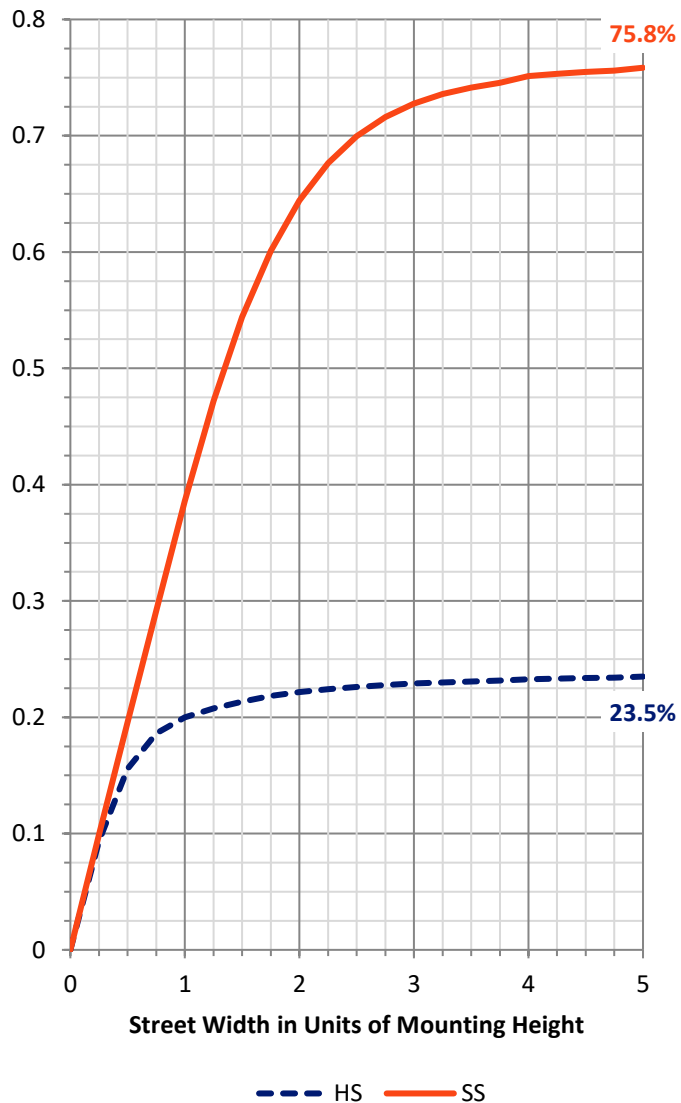
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1952.4 | 0.0 | 1952.4 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 6231.6 | 0.0 | 6231.6 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 8184.0 | 0.0 | 8184.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.3 | 1.0 |
| 10°-20° | 270.8 | 3.3 |
| 20°-30° | 499.8 | 6.1 |
| 30°-40° | 771.8 | 9.4 |
| 40°-50° | 1161.7 | 14.2 |
| 50°-60° | 1700.3 | 20.8 |
| 60°-70° | 2007.9 | 24.5 |
| 70°-80° | 1437.6 | 17.6 |
| 80°-90° | 251.9 | 3.1 |
| 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° | 8184.0 | 100.0 |
| 0°-180° | 8184.0 | 100.0 |

Coefficient of Utilization

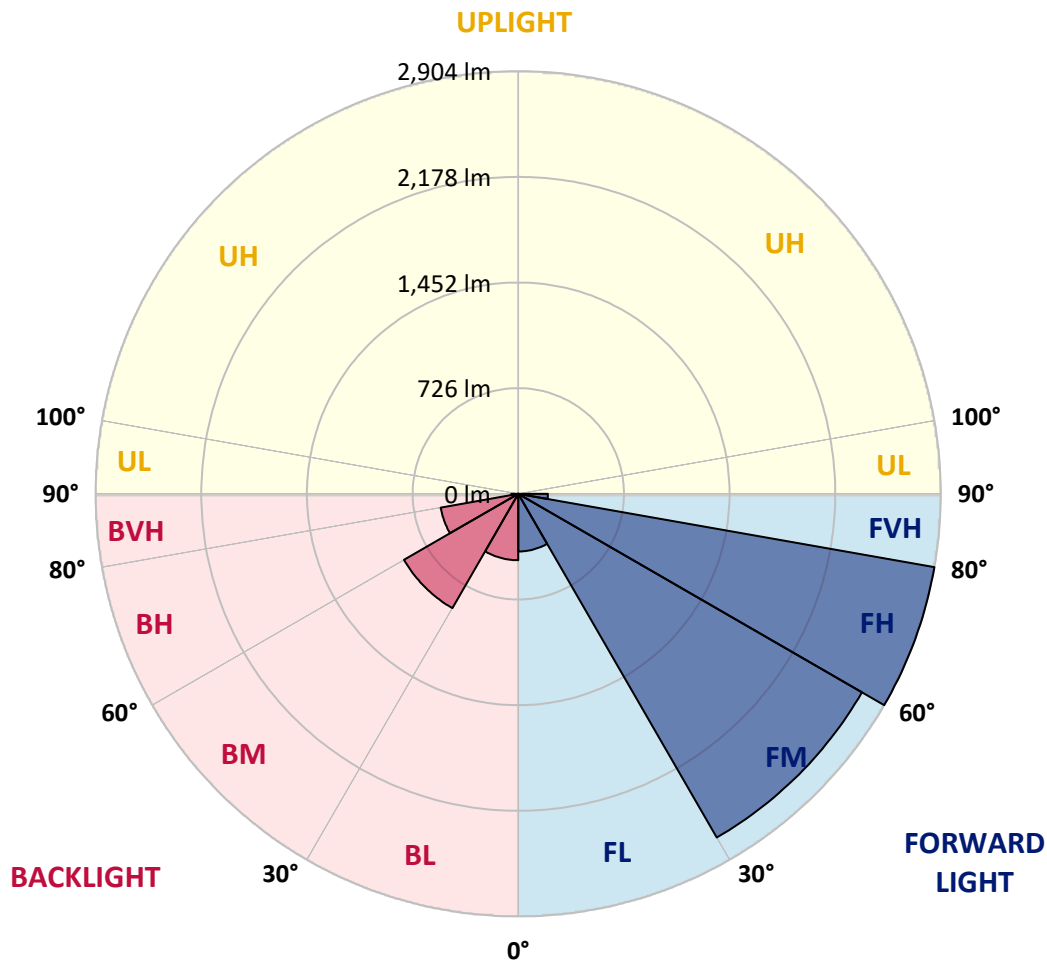


REPORT NUMBER: P595411
 CATALOG NUMBER: IST-PA1F-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 396.6 | 4.8 | | | |
| FM (30°-60°) | 2727.1 | 33.3 | | | |
| FH (60°-80°) | 2904.1 | 35.5 | | | G2/5000 |
| FVH (80°-90°) | 203.8 | 2.5 | | | G2/225 |
| BL (0°-30°) | 456.3 | 5.6 | B1/500 | | |
| BM (30°-60°) | 906.7 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 541.3 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 48.1 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type IV Medium





REPORT NUMBER: P595411

CATALOG NUMBER: IST-PA1F-827-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 |
| 2.5° | 814.5 | 818.5 | 816.5 | 818.5 | 824.5 | 820.5 | 820.5 | 822.5 | 824.5 | 822.5 | 826.5 |
| 5° | 780.4 | 782.4 | 786.4 | 794.4 | 808.5 | 812.5 | 822.5 | 822.5 | 826.5 | 830.6 | 836.6 |
| 7.5° | 724.2 | 728.2 | 736.3 | 744.3 | 768.4 | 792.4 | 818.5 | 822.5 | 836.6 | 846.6 | 850.6 |
| 10° | 714.2 | 718.2 | 720.2 | 732.3 | 756.3 | 780.4 | 812.5 | 820.5 | 846.6 | 862.7 | 880.7 |
| 12.5° | 704.2 | 708.2 | 714.2 | 730.3 | 760.3 | 786.4 | 820.5 | 828.6 | 860.7 | 892.8 | 914.8 |
| 15° | 712.2 | 714.2 | 720.2 | 736.3 | 766.4 | 802.5 | 846.6 | 852.6 | 888.7 | 928.9 | 963.0 |
| 17.5° | 732.3 | 734.3 | 732.3 | 746.3 | 774.4 | 816.5 | 876.7 | 886.7 | 930.9 | 971.0 | 1005.1 |
| 20° | 778.4 | 780.4 | 772.4 | 772.4 | 792.4 | 834.6 | 908.8 | 922.8 | 977.0 | 1021.1 | 1055.3 |
| 22.5° | 878.7 | 874.7 | 854.6 | 828.6 | 828.6 | 862.7 | 944.9 | 965.0 | 1033.2 | 1069.3 | 1099.4 |
| 25° | 1021.1 | 1021.1 | 989.0 | 940.9 | 908.8 | 904.8 | 987.0 | 1009.1 | 1089.4 | 1133.5 | 1151.5 |
| 27.5° | 1193.7 | 1195.7 | 1143.5 | 1079.3 | 1017.1 | 987.0 | 1047.2 | 1069.3 | 1159.6 | 1205.7 | 1211.7 |
| 30° | 1346.1 | 1348.2 | 1296.0 | 1235.8 | 1159.6 | 1093.4 | 1127.5 | 1151.5 | 1255.9 | 1292.0 | 1271.9 |
| 32.5° | 1498.6 | 1500.6 | 1464.5 | 1382.3 | 1302.0 | 1219.8 | 1229.8 | 1243.8 | 1350.2 | 1384.3 | 1352.2 |
| 35° | 1631.0 | 1637.0 | 1600.9 | 1538.7 | 1454.5 | 1380.3 | 1362.2 | 1364.2 | 1460.5 | 1482.6 | 1440.4 |
| 37.5° | 1765.4 | 1765.4 | 1743.4 | 1685.2 | 1613.0 | 1530.7 | 1506.6 | 1512.7 | 1598.9 | 1621.0 | 1560.8 |
| 40° | 1936.0 | 1944.0 | 1932.0 | 1859.7 | 1777.5 | 1709.3 | 1685.2 | 1693.2 | 1787.5 | 1775.5 | 1711.3 |
| 42.5° | 2142.6 | 2160.7 | 2140.6 | 2062.4 | 1974.1 | 1897.8 | 1897.8 | 1897.8 | 1978.1 | 1980.1 | 1883.8 |
| 45° | 2407.4 | 2407.4 | 2387.4 | 2319.1 | 2202.8 | 2126.6 | 2100.5 | 2106.5 | 2176.7 | 2184.7 | 2072.4 |
| 47.5° | 2628.1 | 2648.2 | 2626.1 | 2575.9 | 2483.7 | 2411.4 | 2329.2 | 2319.1 | 2377.3 | 2377.3 | 2281.0 |
| 50° | 2806.7 | 2842.8 | 2824.7 | 2846.8 | 2780.6 | 2744.5 | 2575.9 | 2547.9 | 2567.9 | 2588.0 | 2481.6 |
| 52.5° | 2955.1 | 2983.2 | 2977.2 | 3041.4 | 3073.5 | 3093.5 | 2826.7 | 2782.6 | 2798.6 | 2796.6 | 2700.3 |
| 55° | 2965.1 | 2975.2 | 3065.4 | 3209.9 | 3336.3 | 3430.6 | 3079.5 | 3031.3 | 3015.3 | 3007.3 | 2933.0 |
| 57.5° | 2907.0 | 2913.0 | 3093.5 | 3264.1 | 3538.9 | 3647.2 | 3318.2 | 3270.1 | 3248.0 | 3219.9 | 3189.8 |
| 60° | 2766.5 | 2796.6 | 3033.3 | 3296.2 | 3659.3 | 3815.8 | 3540.9 | 3490.8 | 3474.7 | 3414.5 | 3482.7 |
| 62.5° | 2588.0 | 2602.0 | 2838.7 | 3230.0 | 3675.3 | 3888.0 | 3775.6 | 3745.5 | 3695.4 | 3609.1 | 3743.5 |
| 65° | 2335.2 | 2333.2 | 2541.8 | 3035.4 | 3593.1 | 3924.1 | 3974.2 | 3958.2 | 3896.0 | 3747.6 | 3976.3 |
| 67.5° | 1917.9 | 1964.1 | 2168.7 | 2690.3 | 3394.5 | 3960.2 | 4176.9 | 4156.8 | 4058.5 | 3871.9 | 4086.6 |
| 70° | 1462.5 | 1490.6 | 1723.3 | 2172.7 | 2999.2 | 3861.9 | 4375.5 | 4381.5 | 4203.0 | 3898.0 | 4038.4 |
| 72.5° | 932.9 | 981.0 | 1165.6 | 1582.9 | 2401.4 | 3496.8 | 4493.9 | 4521.9 | 4283.2 | 3861.9 | 3739.5 |
| 73° | 854.6 | 858.6 | 1039.2 | 1464.5 | 2214.8 | 3366.4 | 4485.8 | 4530.0 | 4291.2 | 3825.8 | 3657.3 |
| 75° | 509.6 | 531.6 | 640.0 | 973.0 | 1580.9 | 2704.3 | 4269.2 | 4357.4 | 4249.1 | 3665.3 | 3205.9 |
| 77.5° | 238.7 | 254.8 | 315.0 | 513.6 | 860.7 | 1627.0 | 3589.1 | 3693.4 | 3765.6 | 3207.9 | 2443.5 |
| 80° | 126.4 | 128.4 | 154.5 | 258.8 | 461.4 | 670.1 | 2501.7 | 2674.2 | 2776.6 | 2415.4 | 1643.1 |
| 82.5° | 106.3 | 106.3 | 120.4 | 166.5 | 294.9 | 260.8 | 1031.2 | 1227.8 | 1504.6 | 1189.7 | 646.0 |
| 85° | 86.3 | 88.3 | 120.4 | 124.4 | 210.6 | 134.4 | 246.8 | 309.0 | 583.8 | 525.6 | 72.2 |
| 87.5° | 28.1 | 32.1 | 68.2 | 88.3 | 112.3 | 52.2 | 62.2 | 68.2 | 68.2 | 100.3 | 24.1 |
| 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: P595411
 CATALOG NUMBER: IST-PA1F-827-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 | 824.5 |
| 2.5° | 828.6 | 828.6 | 830.6 | 832.6 | 836.6 | 836.6 | 840.6 | 842.6 | 846.6 | 848.6 | 842.6 |
| 5° | 836.6 | 840.6 | 844.6 | 856.6 | 870.7 | 882.7 | 894.8 | 904.8 | 914.8 | 920.8 | 918.8 |
| 7.5° | 858.6 | 864.7 | 880.7 | 902.8 | 930.9 | 948.9 | 967.0 | 985.0 | 993.1 | 997.1 | 997.1 |
| 10° | 888.7 | 900.8 | 930.9 | 967.0 | 999.1 | 1027.2 | 1041.2 | 1053.2 | 1057.3 | 1061.3 | 1057.3 |
| 12.5° | 930.9 | 946.9 | 993.1 | 1039.2 | 1075.3 | 1089.4 | 1087.4 | 1071.3 | 1049.2 | 1045.2 | 1041.2 |
| 15° | 985.0 | 1005.1 | 1057.3 | 1111.4 | 1139.5 | 1121.5 | 1075.3 | 1059.3 | 1055.3 | 1067.3 | 1063.3 |
| 17.5° | 1031.2 | 1055.3 | 1119.5 | 1175.6 | 1169.6 | 1107.4 | 1093.4 | 1101.4 | 1097.4 | 1099.4 | 1099.4 |
| 20° | 1075.3 | 1109.4 | 1177.6 | 1215.7 | 1163.6 | 1123.5 | 1111.4 | 1101.4 | 1089.4 | 1093.4 | 1089.4 |
| 22.5° | 1131.5 | 1155.6 | 1233.8 | 1235.8 | 1155.6 | 1123.5 | 1097.4 | 1077.3 | 1073.3 | 1075.3 | 1077.3 |
| 25° | 1175.6 | 1213.7 | 1282.0 | 1221.8 | 1155.6 | 1091.4 | 1055.3 | 1051.2 | 1053.2 | 1065.3 | 1061.3 |
| 27.5° | 1235.8 | 1273.9 | 1320.1 | 1213.7 | 1107.4 | 1039.2 | 1025.2 | 1023.2 | 1009.1 | 1013.1 | 1013.1 |
| 30° | 1292.0 | 1338.1 | 1340.1 | 1213.7 | 1047.2 | 995.1 | 975.0 | 938.9 | 908.8 | 914.8 | 912.8 |
| 32.5° | 1368.2 | 1408.3 | 1344.1 | 1165.6 | 979.0 | 936.9 | 882.7 | 826.5 | 812.5 | 820.5 | 822.5 |
| 35° | 1456.5 | 1488.6 | 1348.2 | 1085.3 | 910.8 | 854.6 | 756.3 | 724.2 | 722.2 | 728.2 | 734.3 |
| 37.5° | 1572.8 | 1590.9 | 1378.2 | 993.1 | 844.6 | 726.2 | 650.0 | 642.0 | 623.9 | 611.9 | 613.9 |
| 40° | 1715.3 | 1693.2 | 1436.4 | 910.8 | 766.4 | 609.9 | 577.8 | 555.7 | 521.6 | 487.5 | 493.5 |
| 42.5° | 1873.8 | 1811.6 | 1454.5 | 844.6 | 660.0 | 537.7 | 507.6 | 473.5 | 431.3 | 395.2 | 393.2 |
| 45° | 2044.3 | 1944.0 | 1438.4 | 792.4 | 553.7 | 483.5 | 451.4 | 411.3 | 361.1 | 331.0 | 331.0 |
| 47.5° | 2246.9 | 2070.4 | 1388.3 | 750.3 | 479.5 | 435.3 | 395.2 | 355.1 | 321.0 | 292.9 | 292.9 |
| 50° | 2469.6 | 2216.8 | 1352.2 | 676.1 | 427.3 | 389.2 | 349.1 | 317.0 | 290.9 | 268.8 | 268.8 |
| 52.5° | 2704.3 | 2355.3 | 1322.1 | 567.7 | 381.2 | 347.1 | 319.0 | 292.9 | 270.8 | 242.7 | 238.7 |
| 55° | 2943.1 | 2487.7 | 1336.1 | 463.4 | 339.0 | 317.0 | 298.9 | 272.8 | 264.8 | 258.8 | 254.8 |
| 57.5° | 3191.8 | 2632.1 | 1370.2 | 379.2 | 302.9 | 300.9 | 292.9 | 311.0 | 329.0 | 317.0 | 311.0 |
| 60° | 3386.4 | 2744.5 | 1374.2 | 319.0 | 280.9 | 317.0 | 357.1 | 363.1 | 315.0 | 286.9 | 284.9 |
| 62.5° | 3540.9 | 2850.8 | 1279.9 | 276.9 | 286.9 | 373.2 | 381.2 | 321.0 | 272.8 | 260.8 | 260.8 |
| 65° | 3621.2 | 2888.9 | 1029.2 | 252.8 | 298.9 | 357.1 | 345.1 | 288.9 | 254.8 | 252.8 | 252.8 |
| 67.5° | 3581.0 | 2858.8 | 720.2 | 226.7 | 264.8 | 309.0 | 309.0 | 264.8 | 234.7 | 244.8 | 240.7 |
| 70° | 3388.4 | 2710.4 | 475.5 | 204.6 | 232.7 | 278.9 | 286.9 | 246.8 | 218.7 | 224.7 | 218.7 |
| 72.5° | 2987.2 | 2445.5 | 313.0 | 180.6 | 200.6 | 246.8 | 266.8 | 226.7 | 200.6 | 198.6 | 192.6 |
| 73° | 2909.0 | 2345.2 | 294.9 | 176.5 | 194.6 | 238.7 | 260.8 | 222.7 | 196.6 | 190.6 | 186.6 |
| 75° | 2467.6 | 1956.0 | 222.7 | 158.5 | 172.5 | 214.7 | 242.7 | 208.6 | 180.6 | 172.5 | 168.5 |
| 77.5° | 1797.5 | 1356.2 | 166.5 | 134.4 | 144.4 | 186.6 | 214.7 | 190.6 | 160.5 | 150.5 | 148.5 |
| 80° | 1121.5 | 738.3 | 124.4 | 108.3 | 114.4 | 156.5 | 188.6 | 170.5 | 138.4 | 126.4 | 124.4 |
| 82.5° | 439.4 | 240.7 | 86.3 | 80.2 | 84.3 | 118.4 | 158.5 | 148.5 | 116.4 | 106.3 | 100.3 |
| 85° | 72.2 | 82.3 | 56.2 | 54.2 | 54.2 | 84.3 | 120.4 | 114.4 | 78.2 | 68.2 | 60.2 |
| 87.5° | 20.1 | 38.1 | 22.1 | 20.1 | 20.1 | 36.1 | 66.2 | 52.2 | 32.1 | 26.1 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)