

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: P269274

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13827.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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: 25 FT

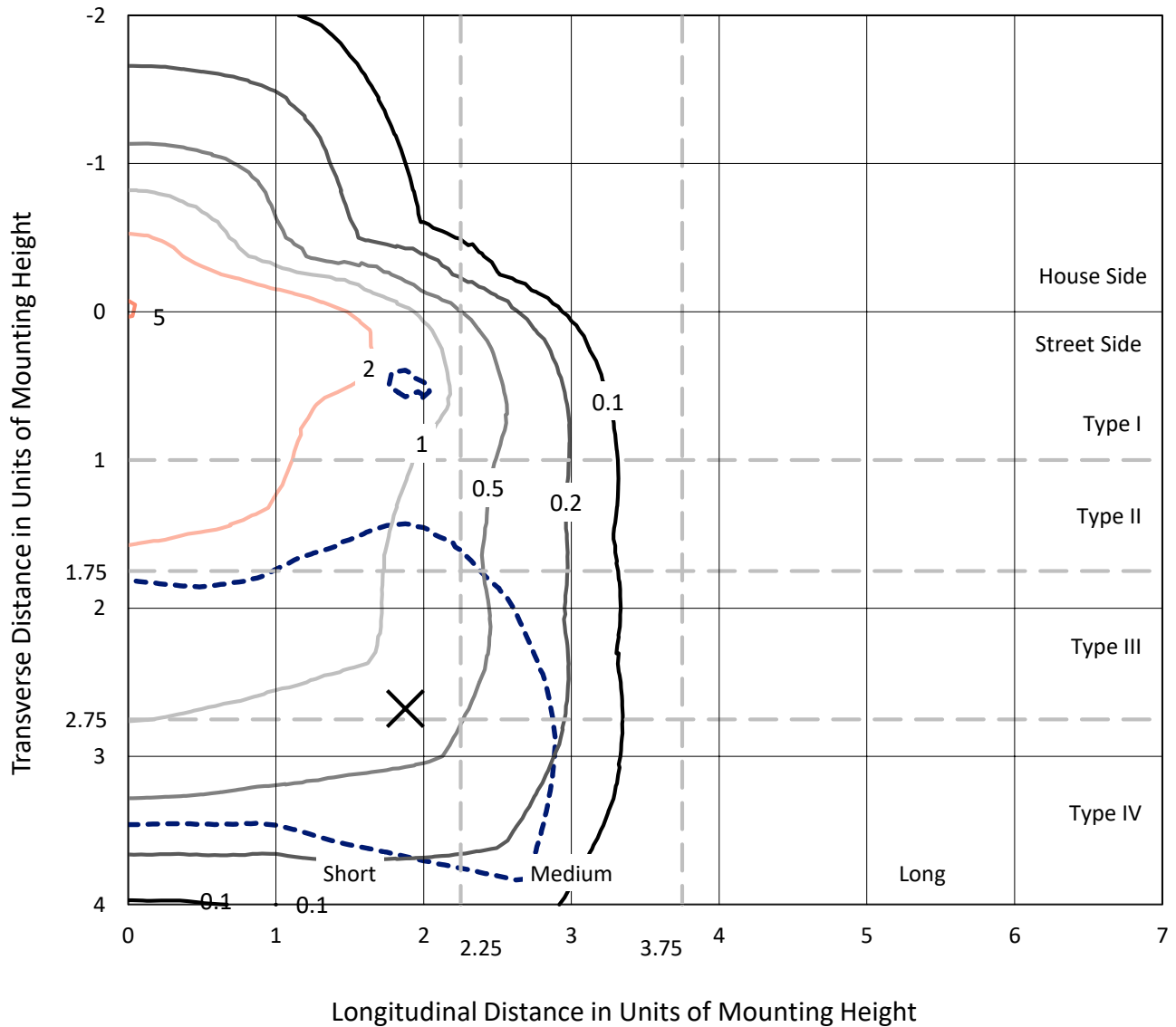


REPORT NUMBER: P269274

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

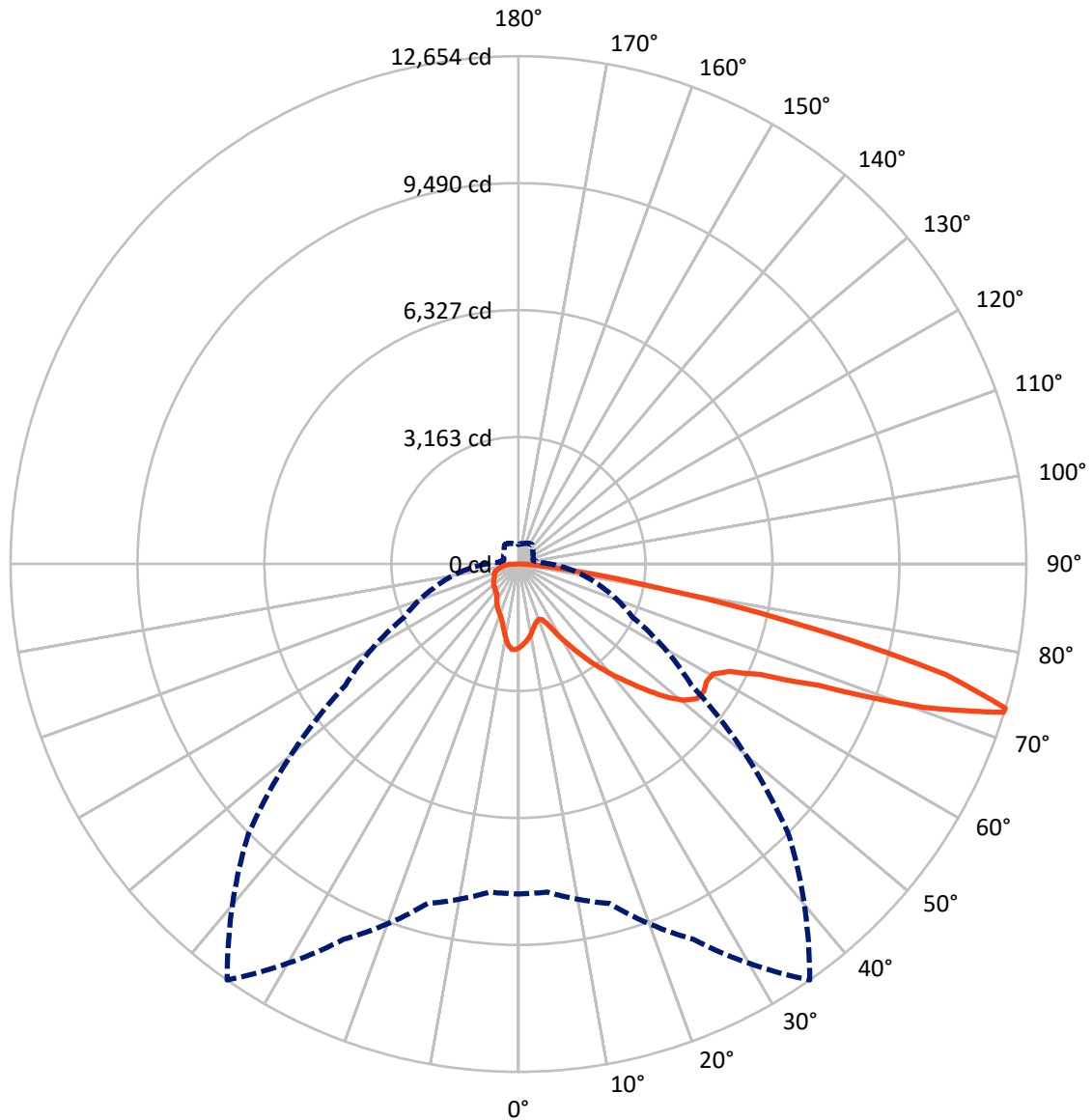


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269274

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2637.2 | 0.0 | 2637.2 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 11189.9 | 0.0 | 11189.9 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 13827.1 | 0.0 | 13827.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 188.9 | 1.4 |
| 10°-20° | 471.5 | 3.4 |
| 20°-30° | 762.3 | 5.5 |
| 30°-40° | 1278.3 | 9.2 |
| 40°-50° | 1970.4 | 14.3 |
| 50°-60° | 2643.5 | 19.1 |
| 60°-70° | 3521.7 | 25.5 |
| 70°-80° | 2686.0 | 19.4 |
| 80°-90° | 304.4 | 2.2 |
| 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° | 13827.1 | 100.0 |
| 0°-180° | 13827.1 | 100.0 |



REPORT NUMBER: P269274

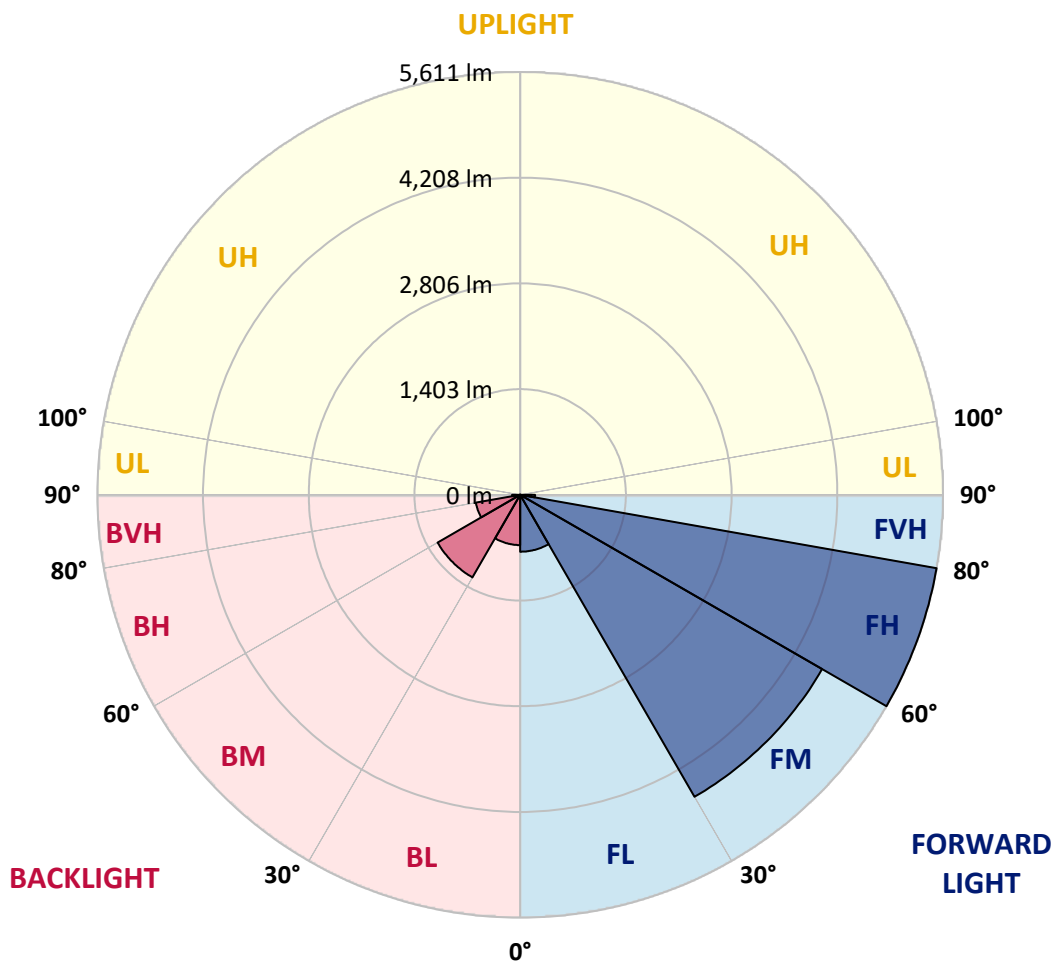
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 755.4 | 5.5 | | | |
| FM | (30°-60°) | 4626.6 | 33.5 | | | |
| FH | (60°-80°) | 5611.0 | 40.6 | | | G3/7500 |
| FVH | (80°-90°) | 196.8 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 667.3 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1265.6 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 596.7 | 4.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 107.7 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P269274

CATALOG NUMBER: GLEON-AF-04-LED-E1-T4FT-7027-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 |
| 2.5° | 2004.6 | 2008.6 | 2003.9 | 2009.9 | 2019.8 | 2030.4 | 2037.8 | 2048.4 | 2060.4 | 2077.1 | 2081.0 |
| 5° | 1910.3 | 1916.4 | 1916.4 | 1927.0 | 1946.2 | 1963.4 | 1979.3 | 1996.7 | 2021.8 | 2050.4 | 2061.7 |
| 7.5° | 1806.8 | 1810.1 | 1816.1 | 1832.0 | 1859.9 | 1884.5 | 1907.0 | 1934.9 | 1969.4 | 2007.3 | 2027.1 |
| 10° | 1681.8 | 1686.6 | 1695.8 | 1718.4 | 1756.2 | 1790.1 | 1822.8 | 1861.2 | 1904.9 | 1952.1 | 1977.3 |
| 12.5° | 1593.7 | 1592.2 | 1596.3 | 1612.8 | 1646.1 | 1687.1 | 1734.4 | 1783.5 | 1837.3 | 1892.4 | 1922.9 |
| 15° | 1563.7 | 1556.5 | 1541.1 | 1537.2 | 1555.1 | 1596.3 | 1650.6 | 1711.1 | 1775.5 | 1842.0 | 1879.8 |
| 17.5° | 1582.4 | 1569.7 | 1527.8 | 1497.4 | 1494.7 | 1526.0 | 1583.6 | 1651.4 | 1725.7 | 1806.8 | 1853.9 |
| 20° | 1699.1 | 1669.3 | 1566.4 | 1495.3 | 1470.7 | 1486.1 | 1536.6 | 1608.1 | 1695.8 | 1803.3 | 1863.9 |
| 22.5° | 1978.6 | 1934.9 | 1716.4 | 1584.3 | 1501.2 | 1482.7 | 1520.6 | 1596.8 | 1699.1 | 1844.6 | 1921.7 |
| 25° | 2385.8 | 2323.3 | 1974.0 | 1806.0 | 1634.7 | 1535.8 | 1544.5 | 1622.8 | 1746.3 | 1940.2 | 2033.1 |
| 27.5° | 2707.1 | 2666.6 | 2310.7 | 2118.8 | 1877.7 | 1679.2 | 1622.1 | 1687.8 | 1842.7 | 2097.0 | 2191.9 |
| 30° | 2898.3 | 2873.8 | 2670.7 | 2473.5 | 2187.8 | 1907.7 | 1770.9 | 1810.1 | 1993.2 | 2314.0 | 2392.4 |
| 32.5° | 3120.2 | 3105.5 | 3005.9 | 2824.6 | 2522.5 | 2207.8 | 2006.6 | 1992.7 | 2195.2 | 2575.0 | 2610.8 |
| 35° | 3349.9 | 3345.2 | 3286.8 | 3156.6 | 2881.8 | 2603.6 | 2319.3 | 2225.0 | 2415.0 | 2845.9 | 2823.4 |
| 37.5° | 3563.7 | 3555.8 | 3521.9 | 3446.2 | 3257.6 | 3028.5 | 2638.1 | 2463.4 | 2651.9 | 3104.8 | 3004.7 |
| 40° | 3957.5 | 3895.1 | 3778.8 | 3721.7 | 3637.3 | 3386.4 | 2891.0 | 2685.8 | 2897.8 | 3351.8 | 3161.2 |
| 42.5° | 4437.4 | 4335.8 | 4119.4 | 4041.0 | 4029.2 | 3668.6 | 3063.7 | 2901.6 | 3145.3 | 3596.9 | 3315.4 |
| 45° | 4815.4 | 4719.6 | 4533.0 | 4434.2 | 4478.1 | 3924.2 | 3237.0 | 3132.1 | 3400.4 | 3853.8 | 3474.0 |
| 47.5° | 5218.3 | 5068.2 | 4821.3 | 4851.1 | 4946.7 | 4165.9 | 3413.6 | 3379.8 | 3679.8 | 4141.4 | 3671.3 |
| 50° | 5232.9 | 5118.2 | 5009.8 | 5188.5 | 5337.2 | 4388.4 | 3634.7 | 3639.4 | 4021.8 | 4503.3 | 3933.5 |
| 52.5° | 4929.4 | 4904.9 | 5077.0 | 5357.9 | 5572.2 | 4564.3 | 3886.3 | 3907.5 | 4459.4 | 4918.8 | 4221.7 |
| 55° | 4823.3 | 4795.4 | 4993.9 | 5298.7 | 5604.2 | 4709.8 | 4159.3 | 4197.8 | 4988.6 | 5357.1 | 4502.6 |
| 57.5° | 5082.3 | 5020.4 | 5033.7 | 5270.9 | 5526.5 | 4869.2 | 4456.8 | 4534.5 | 5563.7 | 5740.3 | 4683.1 |
| 60° | 5805.9 | 5673.9 | 5422.9 | 5416.9 | 5568.2 | 5108.1 | 4800.7 | 4895.7 | 6161.2 | 5923.6 | 4612.7 |
| 62.5° | 6821.2 | 6689.0 | 6219.0 | 5913.0 | 5890.2 | 5502.6 | 5222.9 | 5248.3 | 6506.6 | 5675.2 | 4183.1 |
| 65° | 7920.1 | 7802.0 | 7276.7 | 6844.5 | 6636.0 | 6155.9 | 5713.7 | 5405.6 | 6393.6 | 4991.9 | 3431.5 |
| 67.5° | 9254.1 | 9127.3 | 8675.8 | 8276.8 | 8076.2 | 7210.3 | 6058.3 | 5254.8 | 5677.2 | 3867.2 | 2466.7 |
| 70° | 10187.0 | 10057.6 | 9879.6 | 10202.9 | 10693.7 | 8731.5 | 6102.7 | 4642.0 | 4240.3 | 2570.3 | 1484.7 |
| 72.5° | 8969.9 | 8909.5 | 9234.1 | 10596.0 | 12639.8 | 9654.5 | 5516.5 | 3379.8 | 2462.8 | 1364.5 | 859.1 |
| 73° | 8218.2 | 8204.9 | 8758.7 | 10320.4 | 12653.7 | 9512.4 | 5259.5 | 3141.4 | 2112.2 | 1207.1 | 785.5 |
| 75° | 3711.1 | 3817.9 | 5031.8 | 7882.9 | 10993.7 | 7838.5 | 3701.7 | 1802.1 | 1193.2 | 833.9 | 592.9 |
| 77.5° | 891.7 | 928.9 | 1574.3 | 3743.5 | 6942.7 | 4671.2 | 1677.2 | 891.1 | 762.9 | 589.0 | 433.0 |
| 80° | 379.9 | 392.4 | 606.3 | 1383.1 | 3268.8 | 1881.1 | 772.9 | 597.0 | 527.8 | 411.1 | 303.4 |
| 82.5° | 211.1 | 224.4 | 344.0 | 627.5 | 1319.4 | 641.4 | 471.4 | 415.6 | 347.3 | 247.7 | 197.2 |
| 85° | 119.6 | 126.8 | 201.2 | 350.6 | 559.0 | 257.6 | 282.2 | 276.1 | 195.9 | 127.5 | 96.9 |
| 87.5° | 56.5 | 61.1 | 96.9 | 162.7 | 219.1 | 100.9 | 143.4 | 158.0 | 122.9 | 77.8 | 50.5 |
| 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: P269274

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 | 2086.9 |
| 2.5° | 2085.7 | 2097.5 | 2111.5 | 2118.8 | 2125.5 | 2133.5 | 2141.4 | 2141.4 | 2142.6 | 2143.4 |
| 5° | 2071.0 | 2095.6 | 2117.5 | 2126.7 | 2128.8 | 2128.8 | 2126.7 | 2116.1 | 2106.9 | 2110.8 |
| 7.5° | 2040.5 | 2076.3 | 2094.8 | 2091.7 | 2066.3 | 2037.1 | 2012.6 | 1982.6 | 1967.4 | 1964.8 |
| 10° | 1996.7 | 2037.8 | 2041.0 | 2007.9 | 1945.5 | 1883.0 | 1831.4 | 1780.8 | 1756.9 | 1750.9 |
| 12.5° | 1948.2 | 1986.1 | 1964.8 | 1896.4 | 1796.2 | 1705.2 | 1639.3 | 1588.3 | 1565.7 | 1559.7 |
| 15° | 1909.0 | 1934.9 | 1881.1 | 1773.6 | 1647.4 | 1551.2 | 1496.7 | 1458.8 | 1442.9 | 1438.2 |
| 17.5° | 1888.3 | 1893.6 | 1795.4 | 1650.0 | 1515.9 | 1435.5 | 1401.6 | 1383.7 | 1377.8 | 1374.4 |
| 20° | 1898.4 | 1861.2 | 1713.7 | 1535.2 | 1408.4 | 1351.9 | 1344.0 | 1339.4 | 1337.9 | 1336.0 |
| 22.5° | 1948.2 | 1851.2 | 1638.8 | 1426.2 | 1314.0 | 1289.4 | 1296.2 | 1295.4 | 1294.1 | 1292.8 |
| 25° | 2037.1 | 1859.9 | 1565.7 | 1322.7 | 1235.0 | 1229.7 | 1241.6 | 1241.6 | 1236.3 | 1236.3 |
| 27.5° | 2154.7 | 1877.7 | 1484.0 | 1224.4 | 1163.3 | 1163.9 | 1173.2 | 1170.6 | 1164.7 | 1160.7 |
| 30° | 2298.1 | 1889.0 | 1388.4 | 1136.0 | 1096.2 | 1093.5 | 1096.2 | 1085.0 | 1067.0 | 1065.7 |
| 32.5° | 2444.8 | 1875.1 | 1277.5 | 1057.8 | 1025.2 | 1019.2 | 1017.2 | 1001.3 | 980.7 | 974.8 |
| 35° | 2577.6 | 1824.0 | 1164.7 | 995.3 | 957.5 | 944.2 | 953.6 | 948.3 | 929.6 | 925.0 |
| 37.5° | 2674.6 | 1729.1 | 1063.1 | 940.3 | 909.1 | 905.8 | 911.7 | 913.7 | 891.7 | 887.0 |
| 40° | 2739.7 | 1600.2 | 976.1 | 893.8 | 899.7 | 887.0 | 867.1 | 853.2 | 846.7 | 844.5 |
| 42.5° | 2792.1 | 1466.2 | 903.1 | 871.9 | 901.7 | 865.2 | 821.9 | 799.4 | 811.3 | 816.6 |
| 45° | 2852.5 | 1335.3 | 841.9 | 844.5 | 891.7 | 839.9 | 790.8 | 768.9 | 773.6 | 774.9 |
| 47.5° | 2935.5 | 1175.9 | 776.2 | 800.7 | 858.5 | 822.7 | 771.6 | 740.4 | 718.5 | 708.6 |
| 50° | 3050.5 | 987.3 | 707.9 | 751.6 | 826.0 | 810.1 | 741.7 | 708.6 | 668.0 | 658.6 |
| 52.5° | 3130.1 | 811.3 | 651.5 | 710.5 | 796.7 | 784.8 | 717.7 | 674.5 | 632.1 | 624.1 |
| 55° | 3086.9 | 674.0 | 602.3 | 664.7 | 758.3 | 753.7 | 697.9 | 640.1 | 606.9 | 600.2 |
| 57.5° | 2871.2 | 587.0 | 564.3 | 621.4 | 711.2 | 727.1 | 671.4 | 610.8 | 587.0 | 582.3 |
| 60° | 2459.4 | 532.5 | 540.5 | 592.3 | 672.7 | 700.5 | 644.8 | 594.9 | 579.0 | 575.6 |
| 62.5° | 1908.3 | 496.0 | 522.5 | 571.1 | 642.7 | 682.0 | 630.2 | 592.9 | 587.0 | 583.0 |
| 65° | 1367.2 | 466.8 | 503.3 | 549.9 | 615.5 | 664.7 | 624.9 | 590.2 | 591.7 | 588.3 |
| 67.5° | 928.9 | 440.9 | 480.1 | 525.9 | 589.0 | 649.4 | 617.6 | 581.1 | 597.6 | 593.6 |
| 70° | 650.1 | 415.6 | 452.8 | 495.3 | 555.8 | 628.2 | 604.2 | 567.1 | 565.8 | 549.9 |
| 72.5° | 507.4 | 382.5 | 415.6 | 452.8 | 513.3 | 598.2 | 577.7 | 535.8 | 513.9 | 497.3 |
| 73° | 484.0 | 374.6 | 406.4 | 443.6 | 503.9 | 590.9 | 570.3 | 527.2 | 502.6 | 487.4 |
| 75° | 400.4 | 340.0 | 369.2 | 402.4 | 464.2 | 556.4 | 534.5 | 488.0 | 456.8 | 447.5 |
| 77.5° | 314.8 | 290.8 | 318.7 | 348.6 | 409.0 | 505.9 | 481.4 | 436.9 | 419.7 | 411.7 |
| 80° | 233.1 | 241.0 | 265.5 | 292.2 | 354.7 | 452.1 | 430.3 | 385.8 | 462.7 | 443.6 |
| 82.5° | 164.0 | 182.5 | 205.2 | 229.1 | 297.5 | 399.7 | 373.2 | 327.3 | 338.7 | 281.4 |
| 85° | 96.9 | 119.6 | 140.8 | 161.3 | 214.4 | 331.4 | 308.1 | 261.0 | 213.7 | 203.8 |
| 87.5° | 56.5 | 66.5 | 72.4 | 93.7 | 147.4 | 249.6 | 217.1 | 193.2 | 110.9 | 75.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)