

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: P269952

Luminaire Tested: **GPC-AF-01-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SL2-7027-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4574.6 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

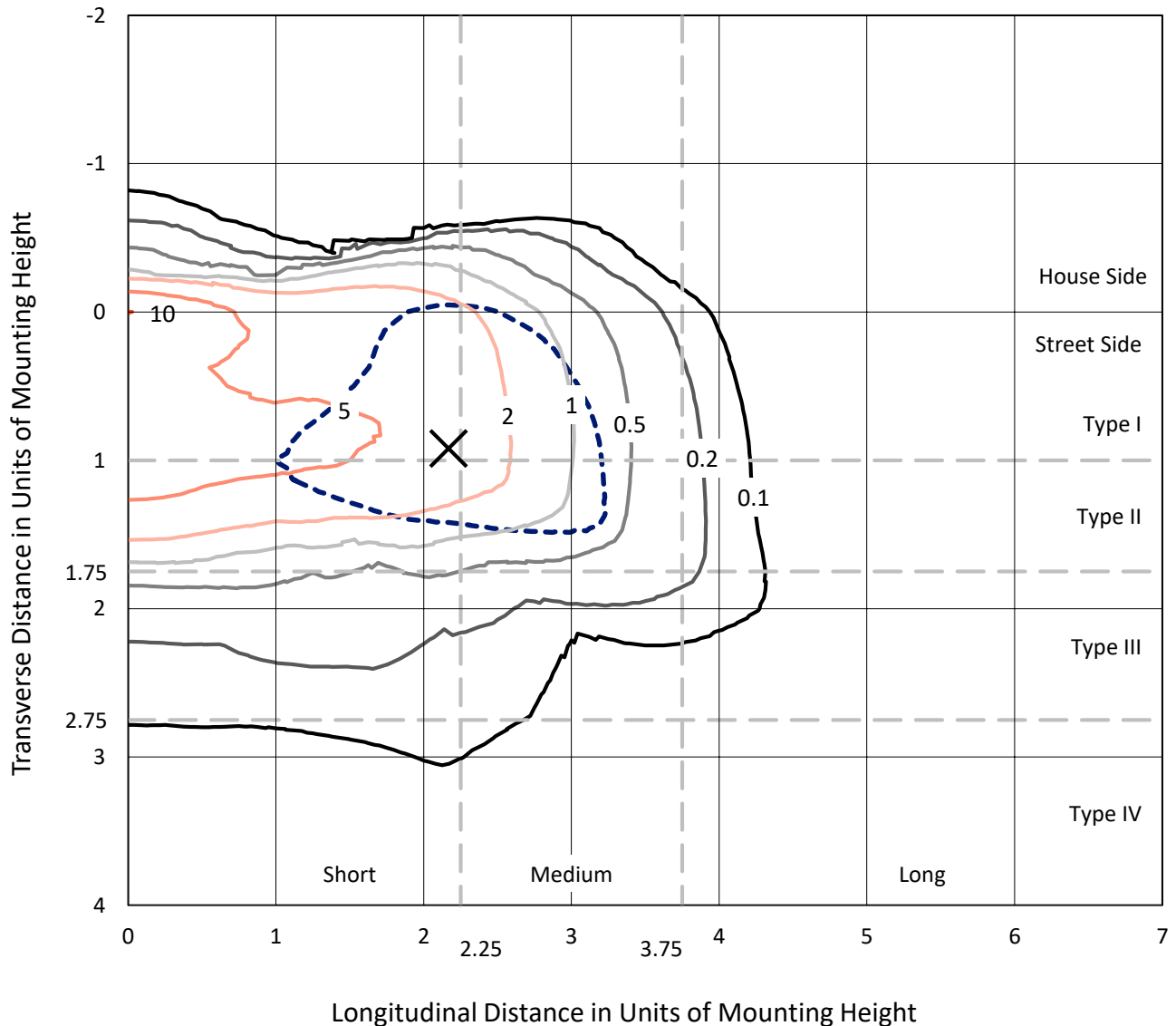


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Iso-Footcandle Lines of Horizontal Illumination

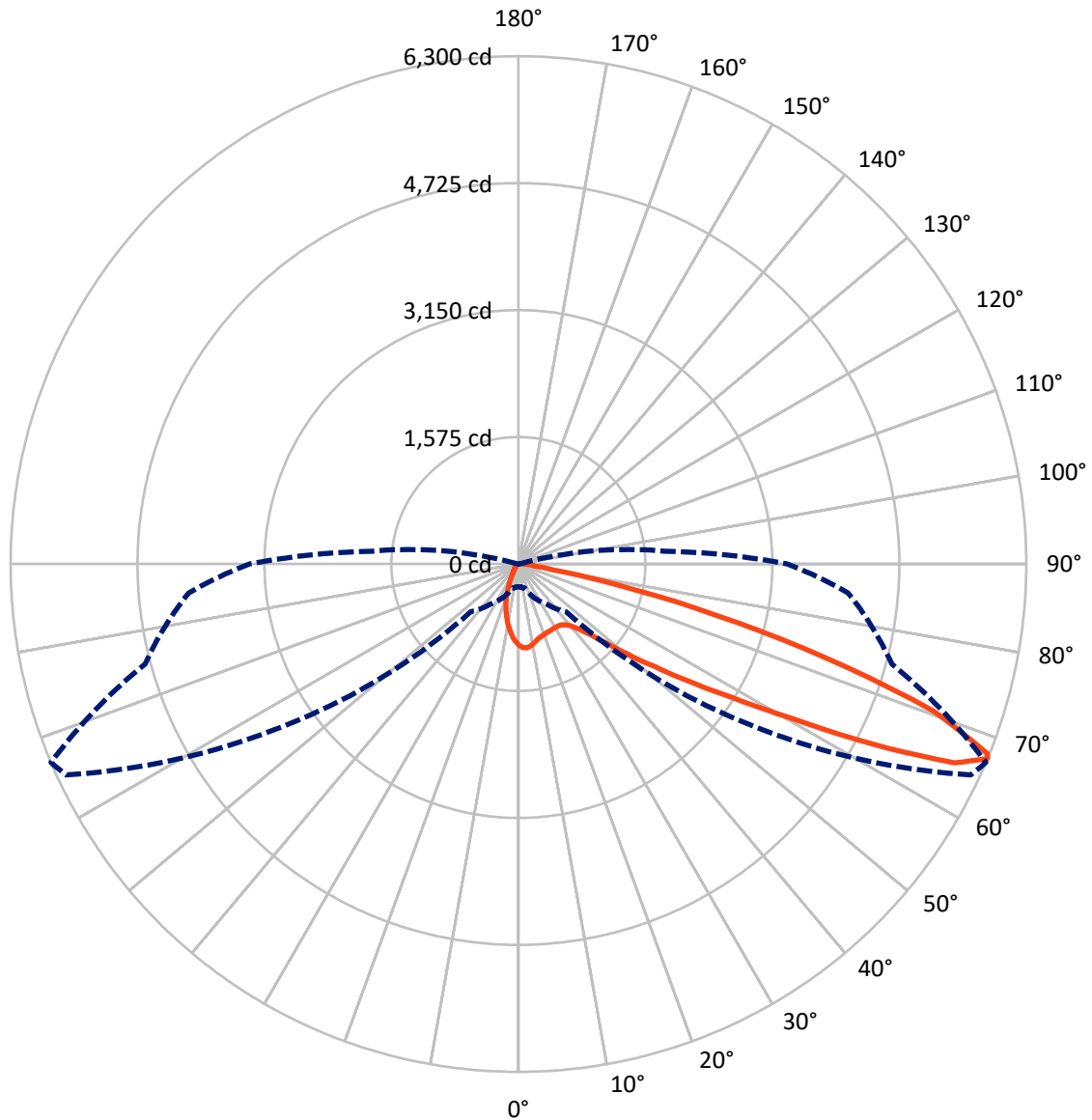
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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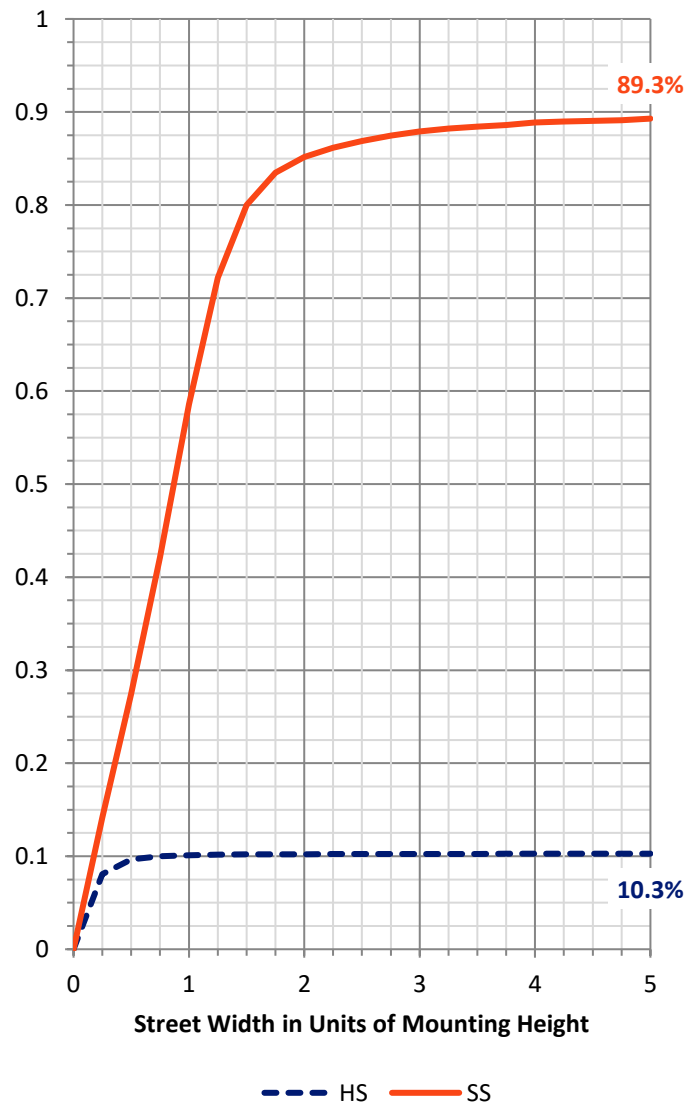
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 475.0 | 0.0 | 475.0 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 4099.7 | 0.0 | 4099.7 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 4574.6 | 0.0 | 4574.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.1 | 1.8 |
| 10°-20° | 174.7 | 3.8 |
| 20°-30° | 254.0 | 5.6 |
| 30°-40° | 396.3 | 8.7 |
| 40°-50° | 702.0 | 15.3 |
| 50°-60° | 1110.9 | 24.3 |
| 60°-70° | 1272.4 | 27.8 |
| 70°-80° | 527.8 | 11.5 |
| 80°-90° | 54.5 | 1.2 |
| 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° | 4574.6 | 100.0 |
| 0°-180° | 4574.6 | 100.0 |

Coefficient of Utilization



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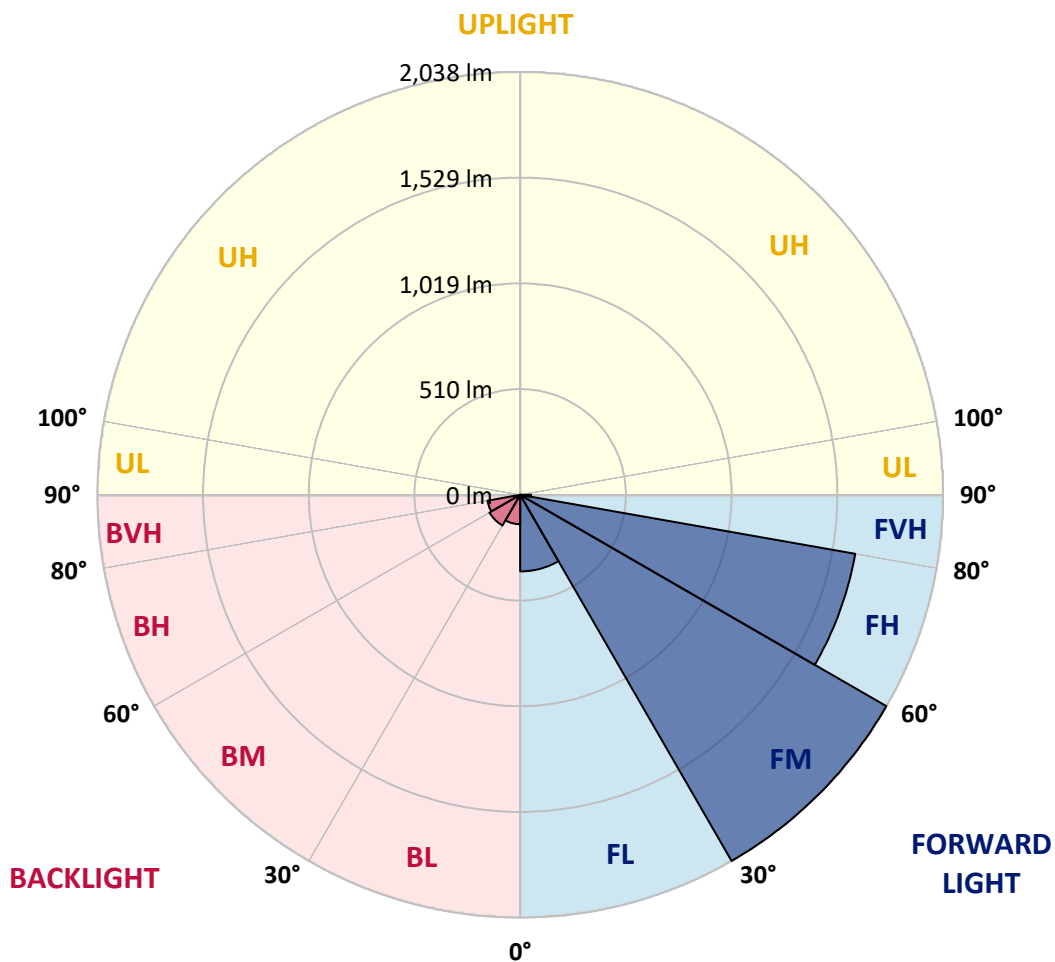
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 369.1 | 8.1 | | | |
| FM | (30°-60°) | 2038.5 | 44.6 | | | |
| FH | (60°-80°) | 1640.0 | 35.9 | | | G1/1800 |
| FVH | (80°-90°) | 52.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 141.7 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 170.7 | 3.7 | B0/220 | | |
| BH | (60°-80°) | 160.1 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.4 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 |
| 2.5° | 1043.0 | 1045.2 | 1044.9 | 1046.5 | 1050.3 | 1050.5 | 1046.7 | 1039.6 | 1038.0 | 1028.6 | 1012.4 |
| 5° | 961.9 | 968.1 | 971.7 | 987.0 | 1004.0 | 1024.6 | 1040.1 | 1045.6 | 1044.9 | 1038.3 | 1013.6 |
| 7.5° | 869.3 | 875.5 | 879.7 | 897.6 | 920.4 | 955.4 | 995.9 | 1028.9 | 1031.9 | 1039.0 | 1012.6 |
| 10° | 807.7 | 808.7 | 814.7 | 831.7 | 855.5 | 891.5 | 939.4 | 997.4 | 1006.2 | 1032.6 | 1010.0 |
| 12.5° | 757.0 | 757.8 | 765.5 | 784.0 | 809.4 | 845.6 | 896.0 | 963.1 | 976.5 | 1024.6 | 1009.4 |
| 15° | 721.0 | 723.9 | 730.9 | 750.1 | 777.0 | 813.1 | 864.8 | 937.7 | 953.9 | 1021.7 | 1014.2 |
| 17.5° | 708.9 | 712.1 | 714.3 | 728.2 | 752.7 | 788.0 | 841.1 | 921.1 | 939.4 | 1023.3 | 1023.6 |
| 20° | 721.5 | 723.9 | 719.2 | 722.5 | 737.8 | 769.3 | 821.1 | 907.0 | 928.8 | 1025.1 | 1035.6 |
| 22.5° | 768.2 | 769.3 | 756.3 | 741.0 | 738.3 | 755.7 | 805.3 | 895.8 | 919.2 | 1030.3 | 1049.7 |
| 25° | 848.3 | 846.5 | 825.1 | 792.2 | 761.3 | 753.3 | 796.0 | 888.9 | 914.5 | 1035.6 | 1064.4 |
| 27.5° | 944.8 | 947.5 | 918.2 | 870.4 | 811.3 | 769.3 | 794.6 | 885.9 | 912.3 | 1039.2 | 1077.2 |
| 30° | 1062.2 | 1066.0 | 1032.3 | 972.3 | 887.7 | 808.7 | 806.9 | 885.3 | 910.9 | 1037.0 | 1078.2 |
| 32.5° | 1182.1 | 1186.7 | 1160.3 | 1098.3 | 989.7 | 874.9 | 834.6 | 891.2 | 913.7 | 1028.6 | 1072.1 |
| 35° | 1307.5 | 1314.0 | 1296.3 | 1243.2 | 1127.9 | 970.4 | 883.5 | 909.1 | 926.2 | 1027.8 | 1066.0 |
| 37.5° | 1480.6 | 1486.5 | 1453.5 | 1397.1 | 1295.1 | 1098.5 | 961.9 | 942.7 | 955.7 | 1040.6 | 1067.5 |
| 40° | 1739.2 | 1738.4 | 1653.1 | 1566.9 | 1479.0 | 1261.3 | 1072.1 | 1003.5 | 1010.2 | 1079.4 | 1087.4 |
| 42.5° | 2020.9 | 2019.6 | 1893.4 | 1762.5 | 1683.2 | 1461.7 | 1217.1 | 1108.7 | 1104.1 | 1150.5 | 1138.5 |
| 45° | 2238.1 | 2237.9 | 2134.9 | 1987.4 | 1928.9 | 1691.7 | 1404.3 | 1254.9 | 1247.9 | 1266.4 | 1233.1 |
| 47.5° | 2330.7 | 2332.4 | 2280.5 | 2176.9 | 2201.3 | 2002.9 | 1640.5 | 1466.8 | 1456.3 | 1448.8 | 1398.2 |
| 50° | 2258.7 | 2261.9 | 2266.2 | 2245.9 | 2401.2 | 2420.9 | 1957.1 | 1765.3 | 1760.3 | 1726.9 | 1647.8 |
| 52.5° | 2023.4 | 2039.6 | 2089.7 | 2154.1 | 2470.6 | 2822.2 | 2453.8 | 2136.3 | 2109.0 | 2073.6 | 1986.3 |
| 55° | 1626.9 | 1644.7 | 1739.9 | 1896.1 | 2367.4 | 3085.9 | 3149.6 | 2614.3 | 2569.1 | 2463.2 | 2337.2 |
| 57.5° | 1076.7 | 1104.5 | 1242.6 | 1441.2 | 2067.4 | 3128.3 | 3843.9 | 3278.1 | 3120.1 | 2830.0 | 2688.1 |
| 60° | 593.2 | 619.8 | 769.8 | 949.7 | 1493.3 | 2918.7 | 4311.0 | 4142.1 | 3862.9 | 3240.1 | 3114.2 |
| 62.5° | 365.3 | 379.8 | 490.5 | 657.6 | 895.5 | 2303.6 | 4407.5 | 5227.7 | 4904.7 | 3768.2 | 3629.0 |
| 65° | 290.8 | 297.0 | 351.1 | 537.6 | 642.0 | 1370.2 | 4095.6 | 6055.5 | 5947.7 | 4407.5 | 4089.8 |
| 67° | 282.2 | 284.8 | 310.4 | 461.5 | 605.2 | 839.9 | 3431.2 | 6190.2 | 6299.6 | 4794.4 | 4104.1 |
| 67.5° | 284.1 | 286.9 | 311.2 | 440.4 | 604.1 | 772.0 | 3202.3 | 6137.1 | 6275.3 | 4825.1 | 4040.3 |
| 70° | 274.1 | 282.2 | 356.2 | 440.3 | 574.5 | 641.5 | 1917.7 | 5317.3 | 5461.2 | 4483.4 | 3428.2 |
| 72.5° | 97.1 | 97.6 | 154.0 | 356.2 | 624.6 | 648.3 | 963.1 | 3898.1 | 4004.6 | 3429.5 | 2471.6 |
| 75° | 57.6 | 49.0 | 51.3 | 101.4 | 597.0 | 629.7 | 555.5 | 2490.9 | 2530.6 | 1965.2 | 1251.7 |
| 77.5° | 39.7 | 34.7 | 35.8 | 44.8 | 227.4 | 620.9 | 441.3 | 1298.9 | 1256.5 | 689.2 | 266.5 |
| 80° | 22.6 | 20.0 | 21.3 | 39.3 | 82.7 | 579.2 | 416.3 | 526.8 | 449.1 | 116.9 | 73.7 |
| 82.5° | 11.9 | 10.2 | 12.2 | 32.2 | 57.6 | 360.9 | 417.1 | 254.6 | 201.7 | 39.4 | 50.1 |
| 85° | 4.2 | 3.5 | 5.8 | 22.2 | 38.4 | 110.8 | 386.6 | 213.9 | 168.2 | 19.3 | 38.2 |
| 87.5° | 0.8 | 0.8 | 2.3 | 9.1 | 15.5 | 33.9 | 228.7 | 127.0 | 85.1 | 11.5 | 26.1 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 |
| 2.5° | 1005.7 | 994.2 | 978.8 | 959.7 | 937.4 | 917.6 | 902.9 | 887.7 | 884.6 | 879.3 | 878.5 |
| 5° | 999.0 | 979.2 | 940.9 | 896.8 | 849.8 | 807.4 | 773.0 | 742.3 | 728.7 | 716.9 | 715.6 |
| 7.5° | 989.2 | 959.5 | 894.2 | 823.1 | 749.7 | 683.2 | 626.5 | 586.6 | 549.7 | 532.1 | 529.5 |
| 10° | 977.6 | 935.2 | 841.6 | 743.1 | 641.7 | 547.5 | 463.4 | 393.1 | 350.3 | 324.9 | 321.9 |
| 12.5° | 966.9 | 911.5 | 788.0 | 660.2 | 525.4 | 399.4 | 291.4 | 224.1 | 179.3 | 161.2 | 159.0 |
| 15° | 961.9 | 892.2 | 737.8 | 575.3 | 403.7 | 254.3 | 159.3 | 123.2 | 108.5 | 104.4 | 104.1 |
| 17.5° | 961.4 | 875.9 | 688.7 | 487.5 | 282.8 | 147.9 | 103.8 | 94.7 | 91.7 | 90.6 | 90.6 |
| 20° | 961.1 | 860.5 | 639.7 | 396.5 | 179.7 | 98.5 | 86.4 | 84.4 | 82.1 | 80.8 | 80.8 |
| 22.5° | 964.1 | 846.7 | 588.4 | 303.6 | 113.1 | 79.8 | 76.0 | 73.9 | 71.2 | 69.3 | 69.1 |
| 25° | 966.9 | 836.1 | 536.1 | 216.1 | 81.9 | 69.3 | 65.7 | 62.7 | 59.0 | 56.6 | 56.4 |
| 27.5° | 967.6 | 822.7 | 480.1 | 144.6 | 68.6 | 60.5 | 55.8 | 51.3 | 46.9 | 44.6 | 44.2 |
| 30° | 959.5 | 800.2 | 417.8 | 97.6 | 60.5 | 52.6 | 46.2 | 41.3 | 37.4 | 35.6 | 35.6 |
| 32.5° | 943.8 | 772.5 | 349.5 | 73.7 | 53.9 | 45.0 | 38.2 | 33.6 | 30.9 | 30.2 | 29.9 |
| 35° | 929.7 | 742.5 | 279.4 | 62.4 | 48.2 | 38.2 | 31.3 | 28.2 | 26.7 | 26.4 | 26.1 |
| 37.5° | 921.4 | 718.6 | 213.4 | 56.6 | 42.9 | 32.0 | 26.4 | 24.3 | 23.4 | 22.9 | 23.3 |
| 40° | 927.8 | 698.5 | 157.7 | 51.7 | 37.5 | 26.7 | 22.4 | 21.3 | 20.5 | 20.3 | 20.3 |
| 42.5° | 955.7 | 695.1 | 117.0 | 47.5 | 32.6 | 22.2 | 19.5 | 18.7 | 18.1 | 17.8 | 18.1 |
| 45° | 1029.5 | 716.5 | 91.0 | 43.5 | 27.5 | 18.7 | 16.6 | 16.3 | 16.0 | 16.0 | 16.0 |
| 47.5° | 1140.2 | 760.4 | 75.7 | 38.9 | 22.9 | 16.0 | 14.5 | 14.2 | 13.8 | 14.2 | 14.2 |
| 50° | 1327.8 | 841.1 | 67.8 | 34.5 | 19.0 | 13.7 | 12.2 | 12.2 | 12.2 | 12.2 | 12.5 |
| 52.5° | 1612.9 | 999.5 | 62.4 | 29.9 | 15.5 | 11.5 | 10.4 | 10.4 | 10.7 | 10.7 | 10.9 |
| 55° | 1930.7 | 1209.7 | 57.6 | 25.3 | 13.0 | 9.6 | 8.5 | 8.9 | 9.1 | 9.3 | 9.3 |
| 57.5° | 2275.5 | 1442.8 | 53.5 | 20.8 | 11.1 | 7.7 | 7.1 | 7.5 | 7.7 | 8.3 | 8.3 |
| 60° | 2691.5 | 1694.9 | 47.8 | 16.3 | 9.3 | 6.2 | 5.6 | 6.2 | 6.9 | 7.5 | 7.7 |
| 62.5° | 3148.3 | 1938.8 | 40.3 | 12.8 | 7.7 | 4.9 | 4.5 | 5.6 | 6.6 | 7.1 | 7.5 |
| 65° | 3460.5 | 2015.3 | 30.9 | 10.4 | 5.8 | 3.5 | 3.8 | 5.1 | 6.4 | 7.1 | 7.1 |
| 67° | 3334.1 | 1827.2 | 25.3 | 8.9 | 4.9 | 2.6 | 3.5 | 5.1 | 6.4 | 6.9 | 7.1 |
| 67.5° | 3246.2 | 1753.6 | 24.3 | 8.5 | 4.5 | 2.6 | 3.5 | 5.1 | 6.4 | 7.1 | 7.1 |
| 70° | 2641.3 | 1317.4 | 20.3 | 6.4 | 3.8 | 2.3 | 3.0 | 4.9 | 6.2 | 6.9 | 6.9 |
| 72.5° | 1835.2 | 812.2 | 18.1 | 4.5 | 3.2 | 2.2 | 2.6 | 4.5 | 5.8 | 6.6 | 6.9 |
| 75° | 872.6 | 294.0 | 15.5 | 3.5 | 3.0 | 1.8 | 2.3 | 4.5 | 5.8 | 6.6 | 6.6 |
| 77.5° | 178.0 | 68.4 | 12.5 | 3.0 | 2.3 | 1.8 | 2.2 | 4.2 | 5.6 | 6.4 | 6.4 |
| 80° | 58.4 | 26.4 | 9.3 | 2.6 | 2.3 | 1.8 | 2.2 | 4.0 | 5.6 | 6.2 | 6.4 |
| 82.5° | 42.2 | 13.4 | 6.2 | 2.6 | 2.3 | 1.8 | 1.8 | 4.0 | 5.3 | 6.2 | 6.2 |
| 85° | 32.2 | 9.3 | 4.0 | 2.6 | 2.3 | 1.8 | 1.8 | 3.8 | 5.1 | 5.8 | 5.8 |
| 87.5° | 21.3 | 3.8 | 3.2 | 2.6 | 2.3 | 1.8 | 1.8 | 3.8 | 4.9 | 5.6 | 5.8 |
| 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)