

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P367649

Luminaire Tested: **PMM-SA2D-830-U-T3-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: P367649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2D-830-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

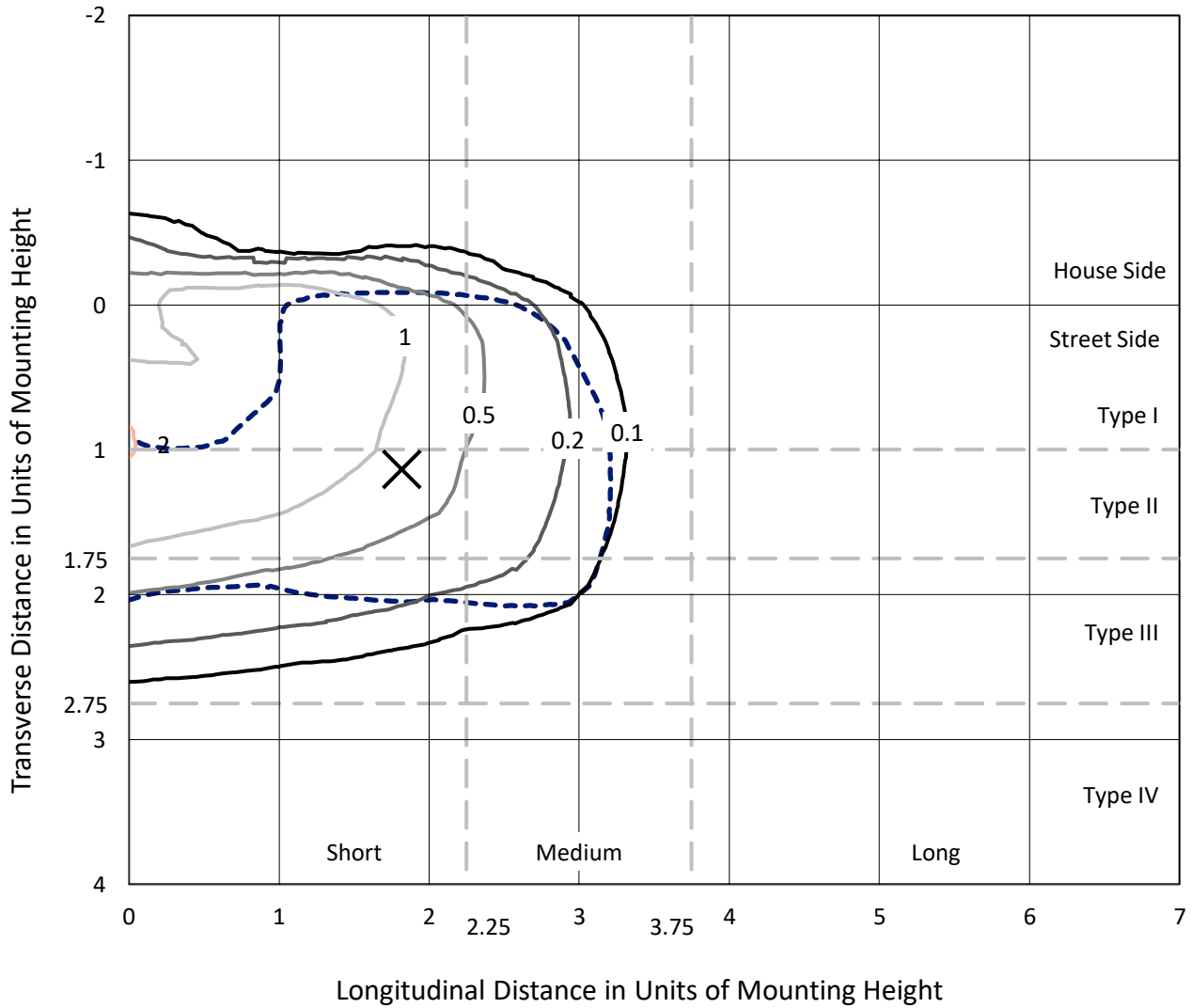
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

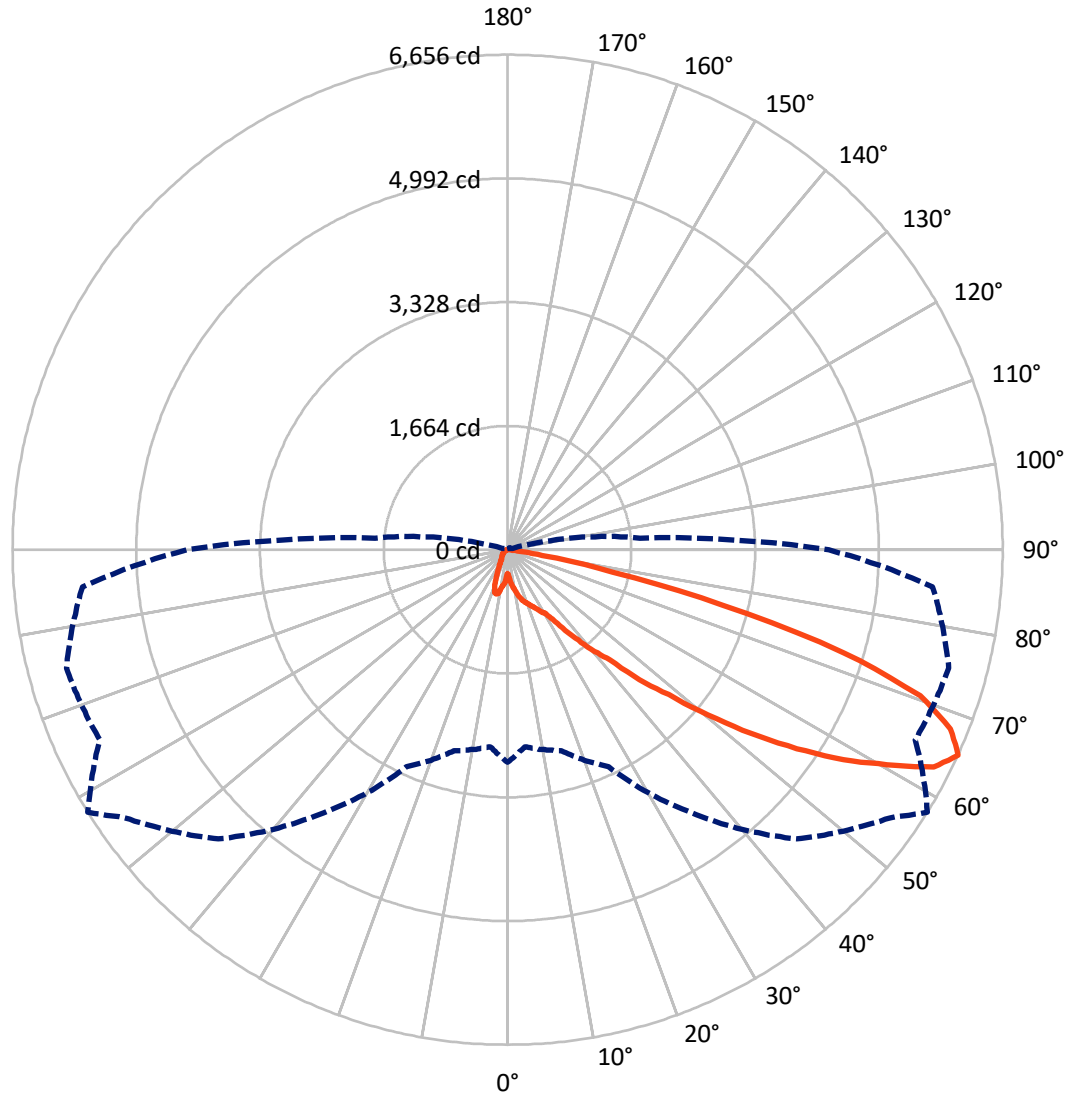
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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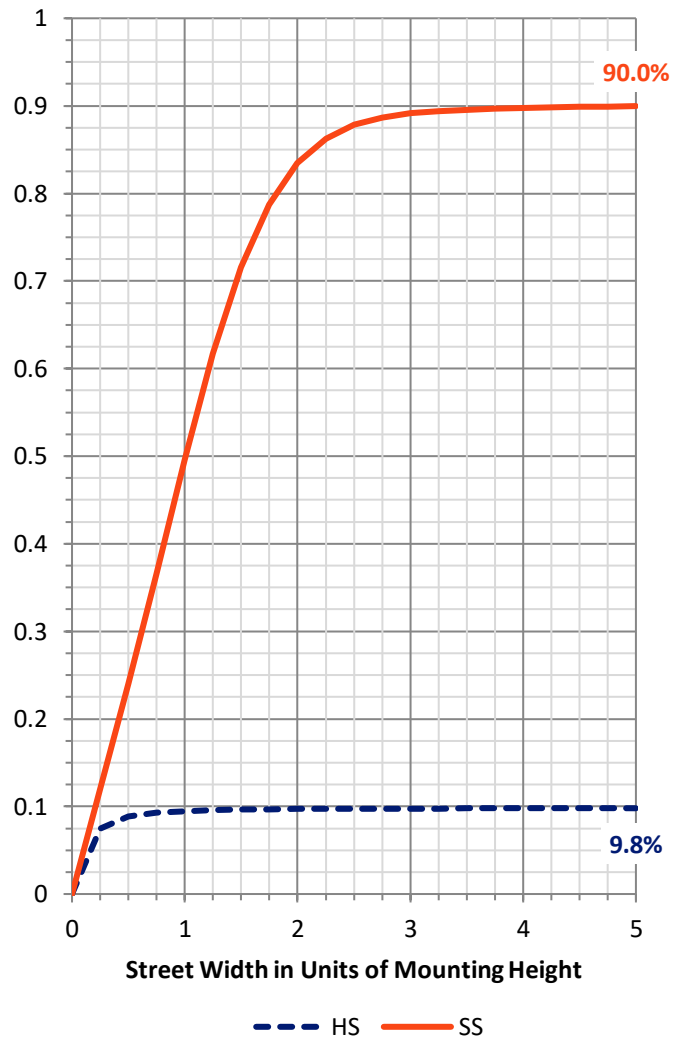
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 781.0 | 0.0 | 781.0 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 7134.0 | 0.0 | 7134.0 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 7915.0 | 0.0 | 7915.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.5 | 0.6 |
| 10°-20° | 162.5 | 2.1 |
| 20°-30° | 314.5 | 4.0 |
| 30°-40° | 627.4 | 7.9 |
| 40°-50° | 1282.7 | 16.2 |
| 50°-60° | 2275.2 | 28.7 |
| 60°-70° | 2398.7 | 30.3 |
| 70°-80° | 777.7 | 9.8 |
| 80°-90° | 31.8 | 0.4 |
| 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° | 7915.0 | 100.0 |
| 0°-180° | 7915.0 | 100.0 |

Coefficient of Utilization

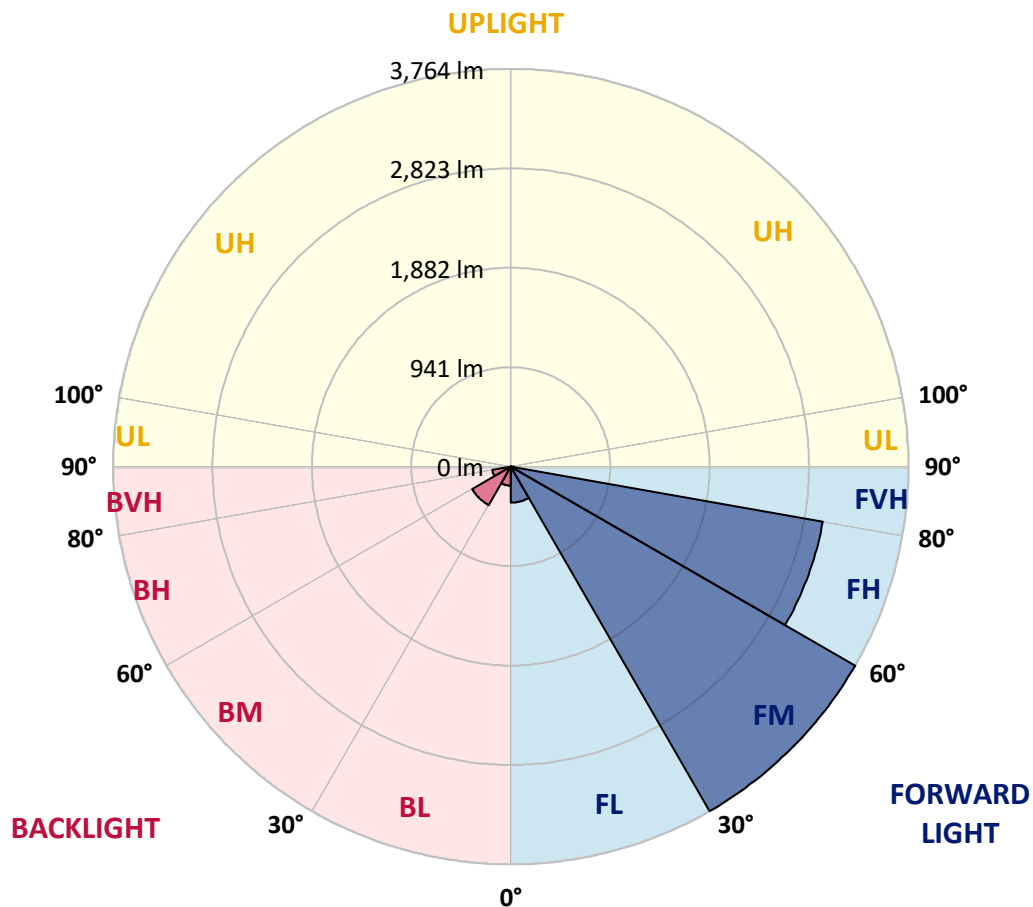


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 341.5 | 4.3 | | | |
| FM (30°-60°) | 3764.0 | 47.6 | | | |
| FH (60°-80°) | 2998.1 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 30.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 180.0 | 2.3 | B1/500 | | |
| BM (30°-60°) | 421.4 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 178.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 |
| 2.5° | 386.8 | 375.2 | 357.0 | 360.1 | 363.6 | 370.8 | 365.0 | 359.6 | 353.8 | 346.3 | 375.2 |
| 5° | 467.0 | 447.9 | 446.1 | 442.1 | 439.0 | 438.5 | 445.6 | 443.4 | 446.5 | 460.8 | 475.5 |
| 7.5° | 496.4 | 488.4 | 473.3 | 479.5 | 469.7 | 462.1 | 493.8 | 504.0 | 523.6 | 530.3 | 568.6 |
| 10° | 493.3 | 481.7 | 488.0 | 491.1 | 497.8 | 525.4 | 545.5 | 556.6 | 573.5 | 610.1 | 602.5 |
| 12.5° | 507.6 | 517.8 | 524.5 | 525.0 | 559.3 | 610.1 | 624.3 | 633.7 | 664.0 | 678.3 | 715.7 |
| 15° | 555.3 | 572.2 | 561.5 | 566.0 | 577.1 | 639.0 | 672.5 | 693.0 | 735.8 | 782.1 | 791.5 |
| 17.5° | 623.4 | 634.1 | 611.9 | 595.8 | 626.6 | 660.4 | 721.0 | 742.4 | 769.6 | 877.9 | 898.0 |
| 20° | 709.5 | 727.7 | 679.6 | 615.9 | 656.4 | 696.5 | 762.5 | 772.7 | 801.7 | 943.0 | 974.6 |
| 22.5° | 910.4 | 883.3 | 809.7 | 710.3 | 698.3 | 716.1 | 779.0 | 819.1 | 868.1 | 979.5 | 1053.0 |
| 25° | 1108.8 | 1099.4 | 991.1 | 880.1 | 799.9 | 759.8 | 843.2 | 865.4 | 945.6 | 1066.4 | 1107.0 |
| 27.5° | 1329.3 | 1348.1 | 1167.1 | 1099.8 | 942.5 | 811.5 | 883.3 | 939.0 | 1033.9 | 1098.1 | 1195.7 |
| 30° | 1620.3 | 1590.5 | 1378.4 | 1311.1 | 1131.5 | 953.7 | 987.1 | 990.7 | 1130.1 | 1202.3 | 1295.0 |
| 32.5° | 1848.5 | 1867.7 | 1601.2 | 1497.8 | 1354.3 | 1172.5 | 1065.1 | 1111.4 | 1211.2 | 1372.1 | 1459.9 |
| 35° | 2095.4 | 2093.6 | 1833.8 | 1694.8 | 1507.2 | 1351.2 | 1296.4 | 1330.2 | 1455.5 | 1637.7 | 1660.9 |
| 37.5° | 2464.4 | 2432.7 | 2126.1 | 1922.5 | 1763.0 | 1629.7 | 1587.8 | 1542.8 | 1672.0 | 1845.8 | 1932.7 |
| 40° | 2812.4 | 2703.2 | 2419.8 | 2178.3 | 1974.2 | 1919.8 | 1768.3 | 1795.9 | 1834.3 | 2063.8 | 2304.0 |
| 42.5° | 3164.0 | 3096.3 | 2717.5 | 2515.2 | 2264.3 | 2135.1 | 2036.1 | 2023.2 | 2205.5 | 2477.3 | 2725.5 |
| 45° | 3628.0 | 3420.7 | 3117.7 | 2939.9 | 2649.3 | 2519.6 | 2439.9 | 2487.6 | 2651.6 | 3048.6 | 3214.0 |
| 47.5° | 4017.4 | 3826.7 | 3566.5 | 3296.4 | 2991.6 | 3137.3 | 2987.6 | 2912.3 | 3137.3 | 3547.7 | 3767.4 |
| 50° | 4352.1 | 4139.5 | 3876.2 | 3676.1 | 3626.6 | 3766.5 | 3463.5 | 3491.1 | 3637.3 | 4119.5 | 4243.4 |
| 52.5° | 4595.4 | 4371.7 | 4141.8 | 4045.1 | 4247.8 | 4318.2 | 4166.3 | 4105.2 | 4238.0 | 4607.0 | 4667.2 |
| 55° | 4778.6 | 4549.5 | 4369.9 | 4503.2 | 4895.4 | 4872.2 | 4925.7 | 4717.1 | 4844.1 | 5115.5 | 5087.0 |
| 57.5° | 4789.7 | 4518.3 | 4413.2 | 4627.5 | 5165.9 | 5524.6 | 5681.0 | 5326.3 | 5398.5 | 5513.0 | 5448.8 |
| 60° | 4439.5 | 4169.4 | 4160.9 | 4465.3 | 5244.3 | 5693.5 | 6035.7 | 5862.8 | 5766.1 | 5851.2 | 5729.6 |
| 62.5° | 3741.6 | 3552.6 | 3640.9 | 3977.3 | 4952.4 | 5600.4 | 6224.7 | 6432.8 | 6056.2 | 6075.4 | 5902.5 |
| 65° | 2857.0 | 2658.7 | 2796.8 | 3220.6 | 4314.2 | 5496.1 | 6278.2 | 6655.6 | 6050.9 | 6139.1 | 5736.7 |
| 67.5° | 1892.2 | 1777.2 | 1933.6 | 2400.7 | 3430.1 | 4851.7 | 6250.5 | 6421.7 | 5858.8 | 5890.0 | 5121.3 |
| 70° | 976.8 | 948.8 | 1075.3 | 1443.9 | 2306.2 | 3727.3 | 5979.1 | 5885.6 | 5468.9 | 5074.1 | 3950.1 |
| 72.5° | 312.8 | 314.2 | 435.8 | 659.5 | 1243.3 | 2269.2 | 4595.9 | 4724.2 | 4376.2 | 3711.7 | 2411.8 |
| 75° | 138.6 | 136.4 | 182.3 | 276.7 | 518.3 | 1017.4 | 2855.2 | 2993.8 | 2724.6 | 2041.9 | 1013.8 |
| 77.5° | 99.8 | 96.7 | 116.8 | 161.8 | 256.7 | 344.9 | 1338.7 | 1444.8 | 1235.3 | 707.7 | 232.2 |
| 80° | 70.4 | 70.0 | 84.7 | 113.6 | 160.4 | 153.3 | 422.9 | 474.2 | 379.7 | 171.6 | 68.2 |
| 82.5° | 39.7 | 41.0 | 58.8 | 80.2 | 97.6 | 76.7 | 119.0 | 131.0 | 127.9 | 91.4 | 29.9 |
| 85° | 19.2 | 21.4 | 38.3 | 57.9 | 51.2 | 29.9 | 42.3 | 45.9 | 53.5 | 53.0 | 15.2 |
| 87.5° | 0.0 | 0.0 | 15.6 | 26.3 | 13.8 | 4.5 | 12.9 | 14.7 | 14.3 | 16.9 | 3.6 |
| 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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CATALOG NUMBER: PMM-SA2D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 | 316.8 |
| 2.5° | 381.0 | 378.3 | 344.5 | 347.2 | 354.7 | 351.6 | 354.3 | 348.0 | 340.9 | 369.9 | 369.4 |
| 5° | 481.7 | 461.7 | 451.0 | 441.2 | 443.0 | 422.9 | 434.5 | 439.8 | 439.0 | 455.4 | 459.9 |
| 7.5° | 570.0 | 543.2 | 521.8 | 501.3 | 470.1 | 442.1 | 459.5 | 470.6 | 478.2 | 506.7 | 517.8 |
| 10° | 611.4 | 589.6 | 581.1 | 541.0 | 518.7 | 501.3 | 480.4 | 465.2 | 471.5 | 463.9 | 471.5 |
| 12.5° | 702.3 | 687.6 | 655.1 | 614.5 | 587.8 | 552.1 | 474.2 | 409.1 | 369.0 | 369.4 | 366.8 |
| 15° | 785.2 | 784.3 | 735.8 | 668.5 | 590.9 | 489.3 | 367.7 | 285.7 | 247.8 | 237.1 | 233.5 |
| 17.5° | 893.5 | 880.1 | 791.5 | 692.1 | 552.6 | 378.8 | 250.4 | 195.6 | 192.1 | 198.3 | 195.6 |
| 20° | 962.6 | 943.0 | 819.1 | 657.8 | 455.4 | 256.2 | 189.0 | 173.4 | 184.0 | 193.0 | 190.7 |
| 22.5° | 1031.7 | 1002.2 | 840.0 | 615.9 | 324.0 | 187.6 | 170.7 | 168.0 | 174.7 | 185.8 | 187.6 |
| 25° | 1069.5 | 1063.7 | 881.0 | 537.4 | 221.9 | 164.4 | 164.4 | 163.5 | 165.8 | 173.8 | 172.5 |
| 27.5° | 1179.6 | 1101.2 | 850.3 | 419.3 | 171.6 | 151.1 | 153.3 | 152.4 | 144.4 | 152.4 | 152.9 |
| 30° | 1248.2 | 1212.1 | 852.5 | 298.6 | 151.1 | 133.7 | 139.5 | 132.4 | 120.3 | 127.0 | 125.7 |
| 32.5° | 1386.4 | 1296.4 | 845.8 | 201.4 | 137.7 | 127.5 | 118.5 | 108.3 | 99.4 | 102.1 | 99.8 |
| 35° | 1547.3 | 1478.6 | 755.4 | 161.8 | 128.3 | 112.7 | 98.5 | 88.2 | 78.9 | 81.1 | 80.7 |
| 37.5° | 1867.2 | 1649.3 | 680.5 | 145.7 | 122.1 | 103.4 | 86.9 | 72.6 | 67.7 | 69.1 | 70.4 |
| 40° | 2163.6 | 1934.1 | 541.0 | 138.6 | 111.4 | 92.2 | 71.7 | 61.5 | 58.4 | 59.3 | 60.6 |
| 42.5° | 2606.5 | 2160.5 | 408.7 | 131.5 | 100.7 | 78.0 | 59.7 | 53.0 | 49.9 | 51.7 | 52.6 |
| 45° | 3035.3 | 2353.0 | 305.3 | 125.2 | 91.8 | 67.3 | 50.4 | 45.9 | 42.3 | 43.7 | 45.5 |
| 47.5° | 3463.5 | 2566.9 | 227.7 | 115.4 | 82.0 | 57.9 | 43.2 | 40.1 | 37.9 | 38.3 | 40.6 |
| 50° | 3846.8 | 2666.7 | 179.1 | 103.4 | 74.0 | 50.4 | 39.2 | 36.1 | 35.2 | 35.7 | 37.4 |
| 52.5° | 4128.4 | 2667.6 | 151.1 | 92.7 | 66.4 | 44.6 | 37.0 | 33.4 | 33.0 | 33.9 | 35.7 |
| 55° | 4382.9 | 2596.3 | 131.0 | 83.3 | 59.7 | 40.6 | 35.2 | 32.1 | 32.1 | 33.0 | 34.8 |
| 57.5° | 4551.8 | 2465.3 | 113.6 | 73.5 | 53.9 | 38.3 | 33.9 | 30.7 | 30.3 | 29.9 | 31.2 |
| 60° | 4634.2 | 2286.6 | 96.3 | 64.6 | 48.6 | 37.0 | 33.0 | 27.2 | 26.7 | 25.8 | 26.7 |
| 62.5° | 4582.1 | 2062.9 | 80.7 | 55.7 | 43.2 | 35.2 | 29.0 | 23.6 | 22.7 | 20.9 | 22.3 |
| 65° | 4315.6 | 1791.0 | 68.2 | 47.7 | 37.4 | 29.9 | 24.5 | 20.1 | 17.8 | 15.6 | 15.2 |
| 67.5° | 3770.6 | 1455.0 | 57.0 | 41.0 | 32.1 | 24.5 | 20.1 | 17.8 | 13.8 | 12.0 | 11.6 |
| 70° | 2825.8 | 993.3 | 47.2 | 35.2 | 26.7 | 20.9 | 16.9 | 16.0 | 12.9 | 11.6 | 10.7 |
| 72.5° | 1657.8 | 536.1 | 39.7 | 30.7 | 22.7 | 17.4 | 13.8 | 14.7 | 12.9 | 10.7 | 9.8 |
| 75° | 662.2 | 178.3 | 31.6 | 24.5 | 18.3 | 12.5 | 11.6 | 12.0 | 11.6 | 9.8 | 8.0 |
| 77.5° | 151.1 | 56.2 | 24.5 | 19.2 | 14.3 | 8.0 | 9.4 | 10.2 | 10.2 | 8.0 | 5.8 |
| 80° | 47.2 | 22.3 | 14.3 | 12.0 | 10.2 | 4.5 | 6.7 | 7.1 | 4.9 | 2.2 | 0.0 |
| 82.5° | 15.2 | 6.2 | 4.9 | 4.9 | 4.5 | 0.9 | 1.3 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 5.8 | 4.0 | 3.1 | 3.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.2 | 1.8 | 1.3 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)