

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: LUMARK

Report Number: P381265

Luminaire Tested: **PRV-XL-PA3B-750-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-750-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22536 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

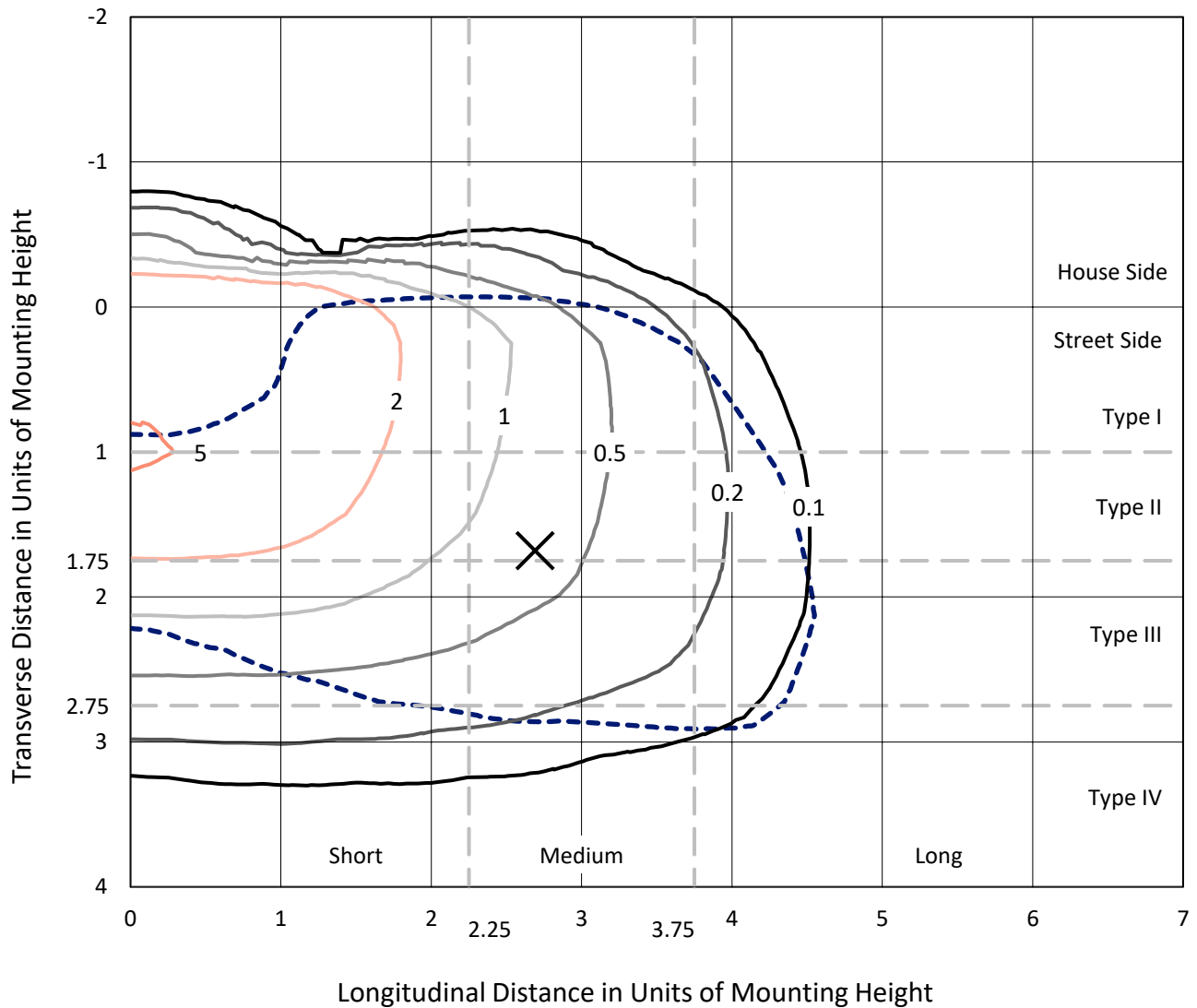
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

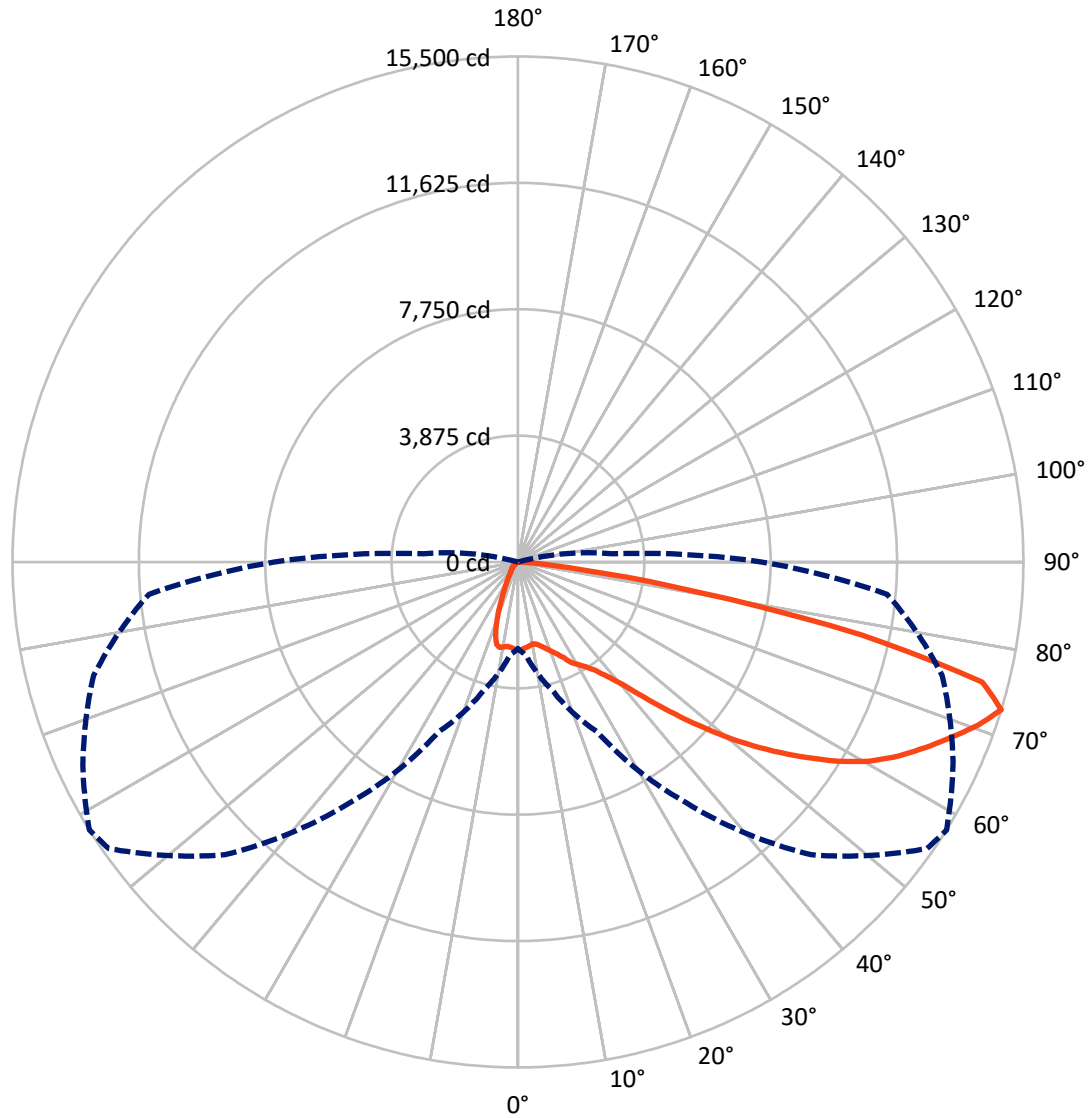
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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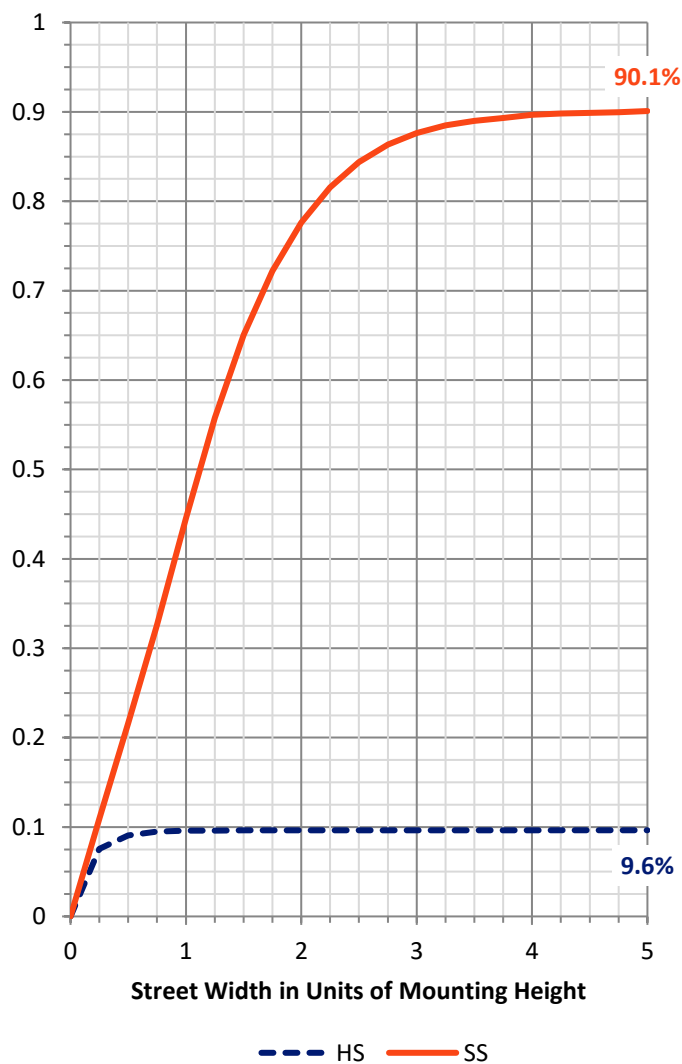
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2191.5 | 0.0 | 2191.5 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 20344.5 | 0.0 | 20344.5 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 22536.0 | 0.0 | 22536.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 248.2 | 1.1 |
| 10°-20° | 646.4 | 2.9 |
| 20°-30° | 1015.4 | 4.5 |
| 30°-40° | 1751.2 | 7.8 |
| 40°-50° | 3331.8 | 14.8 |
| 50°-60° | 5276.5 | 23.4 |
| 60°-70° | 6157.1 | 27.3 |
| 70°-80° | 3856.2 | 17.1 |
| 80°-90° | 253.1 | 1.1 |
| 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° | 22536.0 | 100.0 |
| 0°-180° | 22536.0 | 100.0 |

Coefficient of Utilization



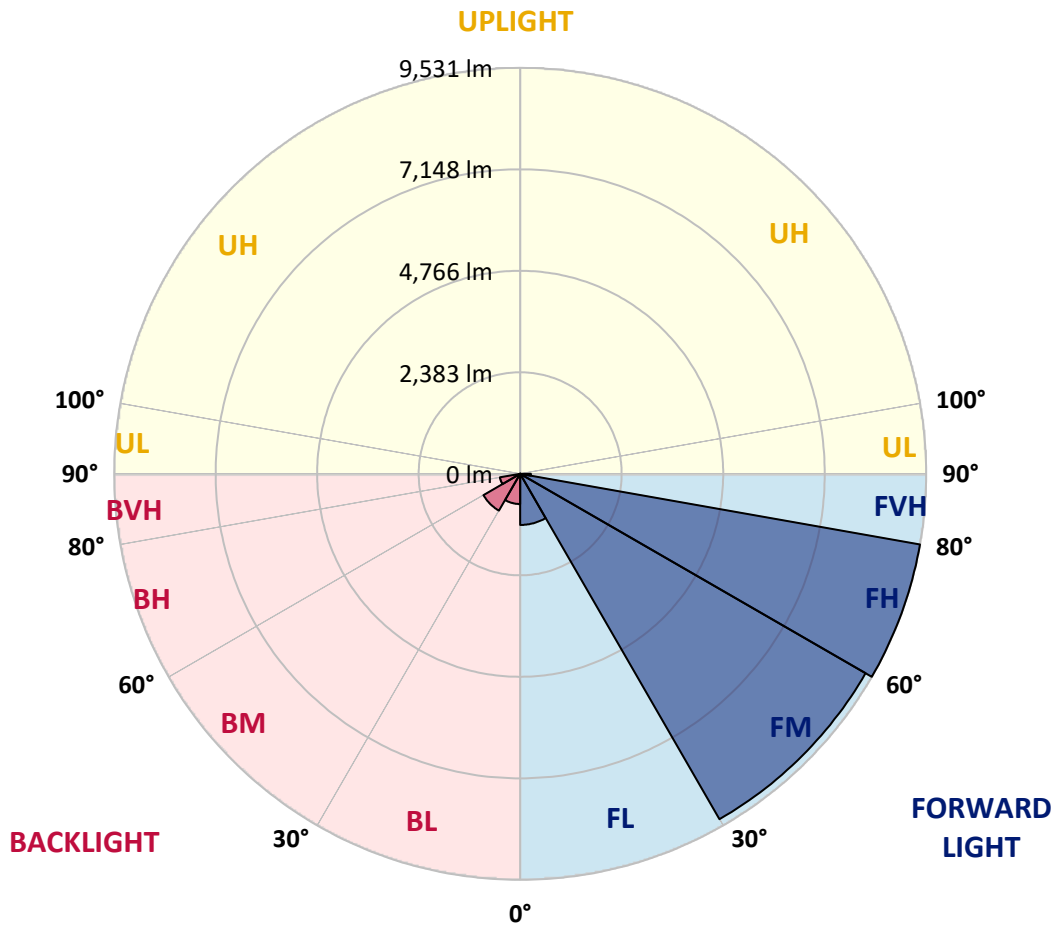
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1200.3 | 5.3 | | | |
| FM (30°-60°) | 9362.4 | 41.5 | | | |
| FH (60°-80°) | 9531.1 | 42.3 | | | G4/12000 |
| FVH (80°-90°) | 250.7 | 1.1 | | | G3/500 |
| BL (0°-30°) | 709.7 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 997.1 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 482.2 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 |
| 2.5° | 2692.1 | 2680.0 | 2676.0 | 2671.9 | 2676.0 | 2680.0 | 2667.9 | 2680.0 | 2671.9 | 2676.0 | 2684.0 |
| 5° | 2595.4 | 2583.3 | 2579.3 | 2583.3 | 2595.4 | 2615.5 | 2623.6 | 2635.7 | 2635.7 | 2647.8 | 2651.8 |
| 7.5° | 2486.6 | 2478.5 | 2474.5 | 2482.5 | 2506.7 | 2551.0 | 2575.2 | 2591.3 | 2607.5 | 2631.6 | 2655.8 |
| 10° | 2426.1 | 2422.1 | 2418.0 | 2430.1 | 2454.3 | 2494.6 | 2526.9 | 2551.0 | 2611.5 | 2680.0 | 2724.3 |
| 12.5° | 2385.8 | 2385.8 | 2393.9 | 2418.0 | 2450.3 | 2482.5 | 2559.1 | 2591.3 | 2684.0 | 2788.8 | 2849.3 |
| 15° | 2353.6 | 2353.6 | 2365.7 | 2410.0 | 2454.3 | 2530.9 | 2643.7 | 2680.0 | 2788.8 | 2917.8 | 2998.4 |
| 17.5° | 2329.4 | 2337.4 | 2345.5 | 2389.8 | 2474.5 | 2603.4 | 2736.4 | 2788.8 | 2921.8 | 3062.9 | 3151.5 |
| 20° | 2333.4 | 2341.5 | 2345.5 | 2389.8 | 2510.7 | 2688.1 | 2857.3 | 2917.8 | 3070.9 | 3220.0 | 3308.7 |
| 22.5° | 2357.6 | 2369.7 | 2373.7 | 2434.2 | 2575.2 | 2776.7 | 2994.3 | 3062.9 | 3228.1 | 3385.3 | 3453.8 |
| 25° | 2458.3 | 2466.4 | 2442.2 | 2494.6 | 2667.9 | 2913.7 | 3171.7 | 3244.2 | 3409.4 | 3554.5 | 3611.0 |
| 27.5° | 2800.9 | 2809.0 | 2676.0 | 2615.5 | 2740.5 | 3026.6 | 3389.3 | 3490.0 | 3695.6 | 3792.3 | 3800.4 |
| 30° | 3542.4 | 3550.5 | 3288.5 | 3002.4 | 2913.7 | 3123.3 | 3510.2 | 3651.3 | 3917.2 | 4026.0 | 3977.7 |
| 32.5° | 4497.6 | 4489.5 | 4130.8 | 3707.7 | 3324.8 | 3292.6 | 3683.5 | 3832.6 | 4122.8 | 4227.6 | 4191.3 |
| 35° | 5456.7 | 5468.8 | 5162.5 | 4525.8 | 3977.7 | 3611.0 | 3905.1 | 4078.4 | 4429.1 | 4578.2 | 4513.7 |
| 37.5° | 6113.6 | 6194.2 | 6061.2 | 5372.1 | 4779.7 | 4199.3 | 4263.8 | 4449.2 | 4888.5 | 5090.0 | 4953.0 |
| 40° | 7040.5 | 7020.4 | 6698.0 | 6190.2 | 5666.3 | 5069.8 | 4844.2 | 4932.8 | 5436.6 | 5706.6 | 5493.0 |
| 42.5° | 8285.8 | 8245.5 | 7697.4 | 7201.8 | 6617.4 | 6129.7 | 5670.3 | 5654.2 | 6065.3 | 6379.6 | 6069.3 |
| 45° | 9414.3 | 9353.8 | 8979.0 | 8499.4 | 7858.7 | 7298.5 | 6677.8 | 6536.8 | 6822.9 | 7088.9 | 6726.2 |
| 47.5° | 10313.0 | 10212.2 | 9946.2 | 9692.3 | 9535.2 | 8664.7 | 7733.7 | 7520.1 | 7665.2 | 7862.7 | 7350.9 |
| 50° | 11376.9 | 11098.8 | 10711.9 | 10558.8 | 10885.2 | 10212.2 | 8749.3 | 8543.8 | 8535.7 | 8648.5 | 7995.7 |
| 52.5° | 11860.5 | 11356.8 | 11139.1 | 11268.1 | 11844.4 | 11651.0 | 9845.5 | 9551.3 | 9434.4 | 9446.5 | 8596.2 |
| 55° | 11276.2 | 11219.7 | 11336.6 | 11739.6 | 12493.2 | 12380.4 | 10897.3 | 10534.6 | 10361.3 | 10143.7 | 9172.5 |
| 57.5° | 10611.2 | 10784.5 | 11247.9 | 12017.7 | 13315.4 | 13142.1 | 11933.1 | 11522.0 | 11203.6 | 10703.9 | 9813.2 |
| 60° | 9998.6 | 10175.9 | 10941.7 | 12082.2 | 13766.7 | 13875.6 | 12795.5 | 12404.6 | 11933.1 | 11276.2 | 10518.5 |
| 62.5° | 9067.7 | 9204.7 | 10280.7 | 11989.5 | 13569.3 | 14302.7 | 13396.0 | 13101.8 | 12662.5 | 11820.2 | 11328.6 |
| 65° | 8019.9 | 8108.5 | 9172.5 | 11247.9 | 13182.4 | 14254.4 | 13891.7 | 13726.4 | 13299.3 | 12388.5 | 12130.5 |
| 67.5° | 6871.3 | 6976.1 | 7862.7 | 9914.0 | 12424.7 | 14028.7 | 14359.2 | 14343.0 | 13855.4 | 13017.2 | 12710.9 |
| 70° | 5549.4 | 5557.5 | 6291.0 | 8221.4 | 11102.9 | 13577.3 | 14939.5 | 14975.8 | 14387.4 | 13488.7 | 12735.0 |
| 72.5° | 2655.8 | 2873.4 | 4078.4 | 5738.8 | 9023.3 | 12690.7 | 15318.3 | 15499.7 | 14721.9 | 13472.6 | 11360.8 |
| 75° | 608.5 | 628.7 | 1188.9 | 2728.4 | 5291.5 | 9740.7 | 14371.3 | 14709.8 | 13907.8 | 11651.0 | 8003.7 |
| 77.5° | 221.7 | 233.7 | 334.5 | 798.0 | 2035.2 | 5033.6 | 10284.8 | 10780.5 | 10280.7 | 7532.2 | 3784.2 |
| 80° | 149.1 | 145.1 | 173.3 | 354.6 | 935.0 | 1426.6 | 5259.3 | 5553.4 | 5069.8 | 2571.2 | 906.8 |
| 82.5° | 76.6 | 80.6 | 120.9 | 197.5 | 628.7 | 495.7 | 1757.1 | 1910.3 | 1571.7 | 515.9 | 169.3 |
| 85° | 36.3 | 36.3 | 68.5 | 124.9 | 266.0 | 173.3 | 390.9 | 471.5 | 423.2 | 225.7 | 56.4 |
| 87.5° | 36.3 | 36.3 | 64.5 | 80.6 | 137.0 | 72.5 | 96.7 | 120.9 | 112.8 | 120.9 | 20.2 |
| 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: PRV-XL-PA3B-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 | 2704.2 |
| 2.5° | 2684.0 | 2680.0 | 2676.0 | 2684.0 | 2680.0 | 2688.1 | 2688.1 | 2696.1 | 2696.1 | 2688.1 | 2684.0 |
| 5° | 2647.8 | 2639.7 | 2631.6 | 2631.6 | 2627.6 | 2635.7 | 2659.9 | 2680.0 | 2684.0 | 2671.9 | 2667.9 |
| 7.5° | 2651.8 | 2651.8 | 2643.7 | 2627.6 | 2599.4 | 2599.4 | 2599.4 | 2623.6 | 2635.7 | 2627.6 | 2623.6 |
| 10° | 2724.3 | 2728.4 | 2708.2 | 2671.9 | 2623.6 | 2579.3 | 2494.6 | 2369.7 | 2252.8 | 2220.6 | 2208.5 |
| 12.5° | 2849.3 | 2853.3 | 2813.0 | 2748.5 | 2647.8 | 2385.8 | 2063.4 | 1765.2 | 1535.5 | 1471.0 | 1458.9 |
| 15° | 2998.4 | 3002.4 | 2929.9 | 2825.1 | 2518.8 | 1910.3 | 1430.7 | 1092.2 | 890.6 | 842.3 | 838.3 |
| 17.5° | 3151.5 | 3143.5 | 3034.6 | 2833.1 | 2135.9 | 1354.1 | 870.5 | 697.2 | 644.8 | 632.7 | 636.8 |
| 20° | 3300.6 | 3276.5 | 3127.3 | 2684.0 | 1644.3 | 886.6 | 636.8 | 596.5 | 584.4 | 576.3 | 576.3 |
| 22.5° | 3437.7 | 3389.3 | 3203.9 | 2389.8 | 1152.6 | 636.8 | 568.2 | 560.2 | 544.1 | 532.0 | 527.9 |
| 25° | 3574.7 | 3506.2 | 3252.3 | 2007.0 | 773.8 | 556.2 | 536.0 | 519.9 | 499.7 | 483.6 | 479.6 |
| 27.5° | 3739.9 | 3643.2 | 3228.1 | 1523.4 | 580.3 | 515.9 | 499.7 | 475.5 | 447.3 | 423.2 | 415.1 |
| 30° | 3897.1 | 3788.3 | 3091.1 | 1051.9 | 495.7 | 475.5 | 451.4 | 415.1 | 378.8 | 350.6 | 342.6 |
| 32.5° | 4094.6 | 3969.6 | 2845.2 | 689.1 | 431.2 | 415.1 | 390.9 | 346.6 | 298.2 | 266.0 | 257.9 |
| 35° | 4376.7 | 4235.6 | 2530.9 | 483.6 | 378.8 | 350.6 | 318.4 | 270.0 | 217.6 | 193.4 | 189.4 |
| 37.5° | 4771.6 | 4582.2 | 2135.9 | 390.9 | 334.5 | 294.2 | 245.8 | 197.5 | 161.2 | 141.1 | 137.0 |
| 40° | 5255.2 | 4965.1 | 1696.7 | 346.6 | 298.2 | 245.8 | 185.4 | 141.1 | 116.9 | 100.8 | 100.8 |
| 42.5° | 5779.1 | 5323.7 | 1249.3 | 318.4 | 262.0 | 201.5 | 137.0 | 100.8 | 84.6 | 76.6 | 72.5 |
| 45° | 6319.2 | 5642.1 | 842.3 | 294.2 | 229.7 | 153.1 | 96.7 | 68.5 | 56.4 | 56.4 | 52.4 |
| 47.5° | 6879.3 | 5855.7 | 544.1 | 266.0 | 193.4 | 112.8 | 64.5 | 48.4 | 40.3 | 40.3 | 40.3 |
| 50° | 7435.5 | 5968.5 | 386.9 | 241.8 | 157.2 | 76.6 | 48.4 | 36.3 | 32.2 | 32.2 | 32.2 |
| 52.5° | 7838.5 | 5896.0 | 310.3 | 209.6 | 120.9 | 56.4 | 36.3 | 28.2 | 24.2 | 24.2 | 24.2 |
| 55° | 8189.1 | 5771.1 | 270.0 | 181.4 | 88.7 | 40.3 | 28.2 | 24.2 | 20.2 | 20.2 | 20.2 |
| 57.5° | 8547.8 | 5609.9 | 241.8 | 153.1 | 64.5 | 28.2 | 20.2 | 16.1 | 16.1 | 16.1 | 16.1 |
| 60° | 8874.2 | 5335.8 | 209.6 | 120.9 | 44.3 | 20.2 | 16.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 62.5° | 9192.6 | 5102.1 | 181.4 | 92.7 | 32.2 | 16.1 | 8.1 | 8.1 | 4.0 | 4.0 | 4.0 |
| 65° | 9374.0 | 4787.7 | 145.1 | 60.5 | 20.2 | 12.1 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9317.5 | 4412.9 | 100.8 | 36.3 | 12.1 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8926.6 | 3909.2 | 60.5 | 20.2 | 12.1 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7475.8 | 2893.6 | 36.3 | 16.1 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 4993.3 | 1329.9 | 20.2 | 12.1 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2285.1 | 399.0 | 12.1 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 459.4 | 104.8 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 96.7 | 20.2 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 20.2 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 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)