

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: P161889

Luminaire Tested: **OVF-E05-LED-E-U-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161889
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E05-LED-E-U-SL3-7060
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (105) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15231 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

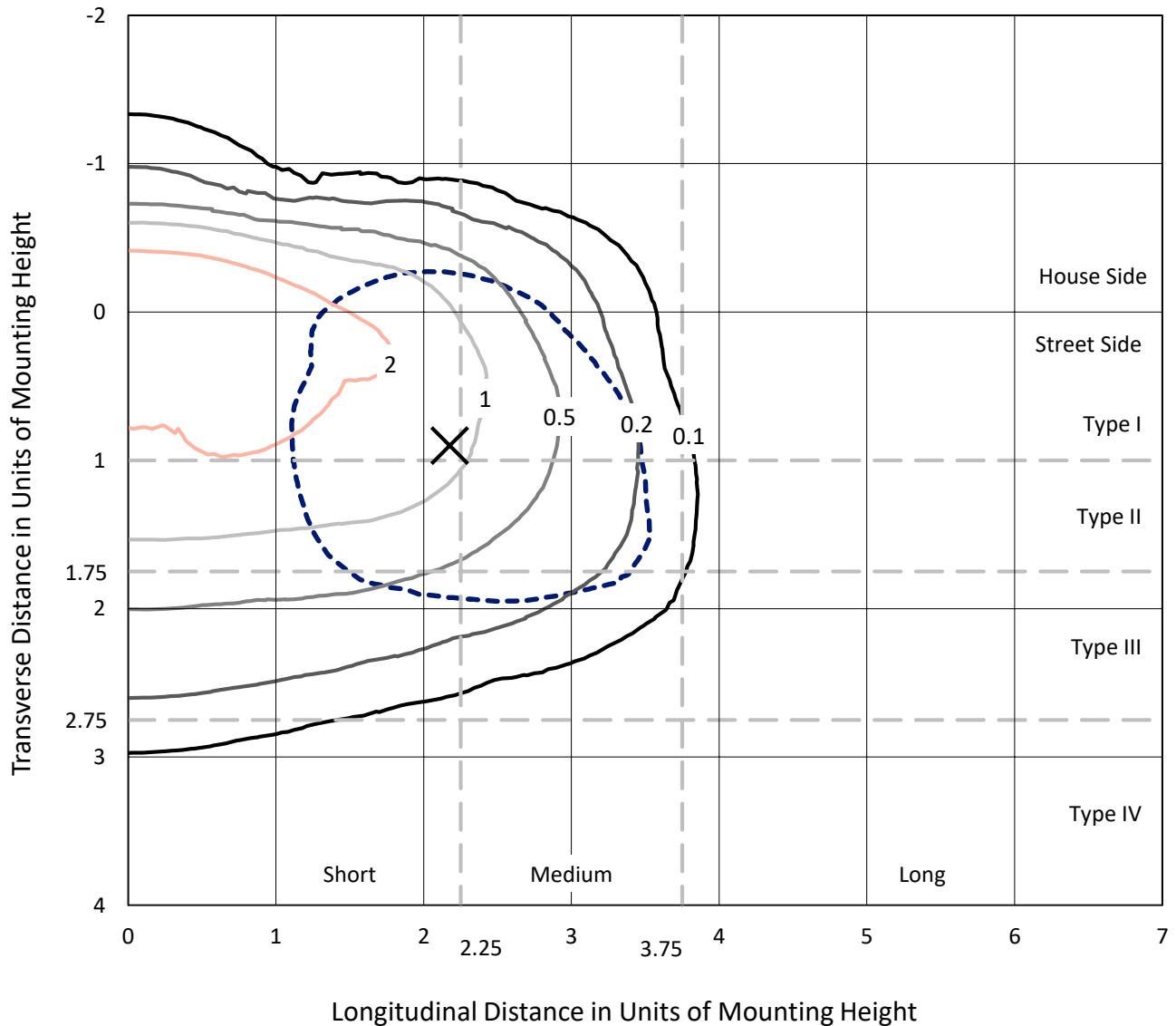
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

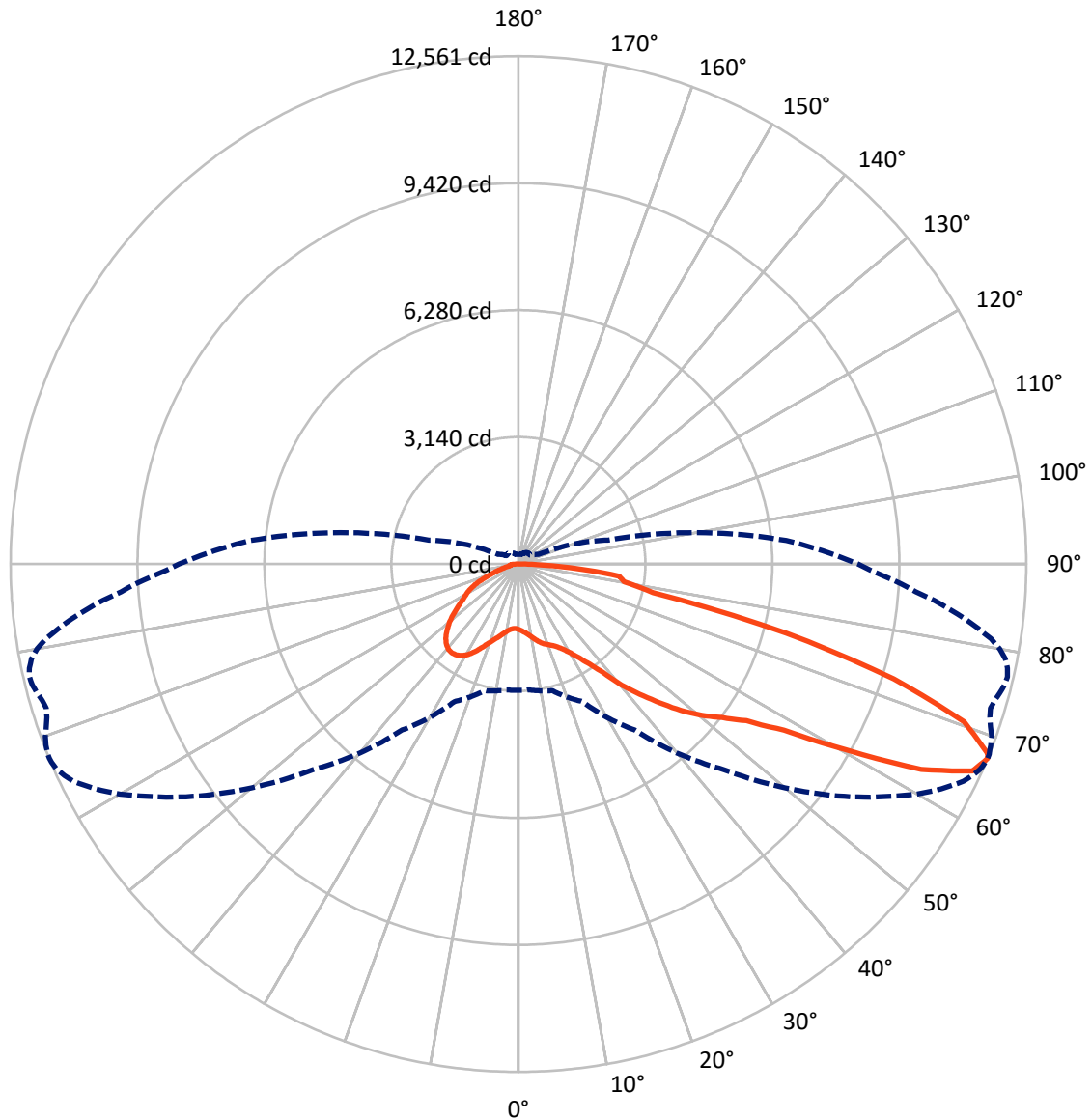
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3606.6 | 0.0 | 3606.6 |
| | % Fixture | 23.7 | 0.0 | 23.7 |
| Street Side | Lumens | 11624.4 | 0.0 | 11624.4 |
| | % Fixture | 76.3 | 0.0 | 76.3 |
| Total | Lumens | 15231.0 | 0.0 | 15231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 161.7 | 1.1 |
| 10°-20° | 553.7 | 3.6 |
| 20°-30° | 985.8 | 6.5 |
| 30°-40° | 1436.0 | 9.4 |
| 40°-50° | 2212.5 | 14.5 |
| 50°-60° | 3240.3 | 21.3 |
| 60°-70° | 4302.8 | 28.3 |
| 70°-80° | 2028.2 | 13.3 |
| 80°-90° | 310.1 | 2.0 |
| 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° | 15231.0 | 100.0 |
| 0°-180° | 15231.0 | 100.0 |



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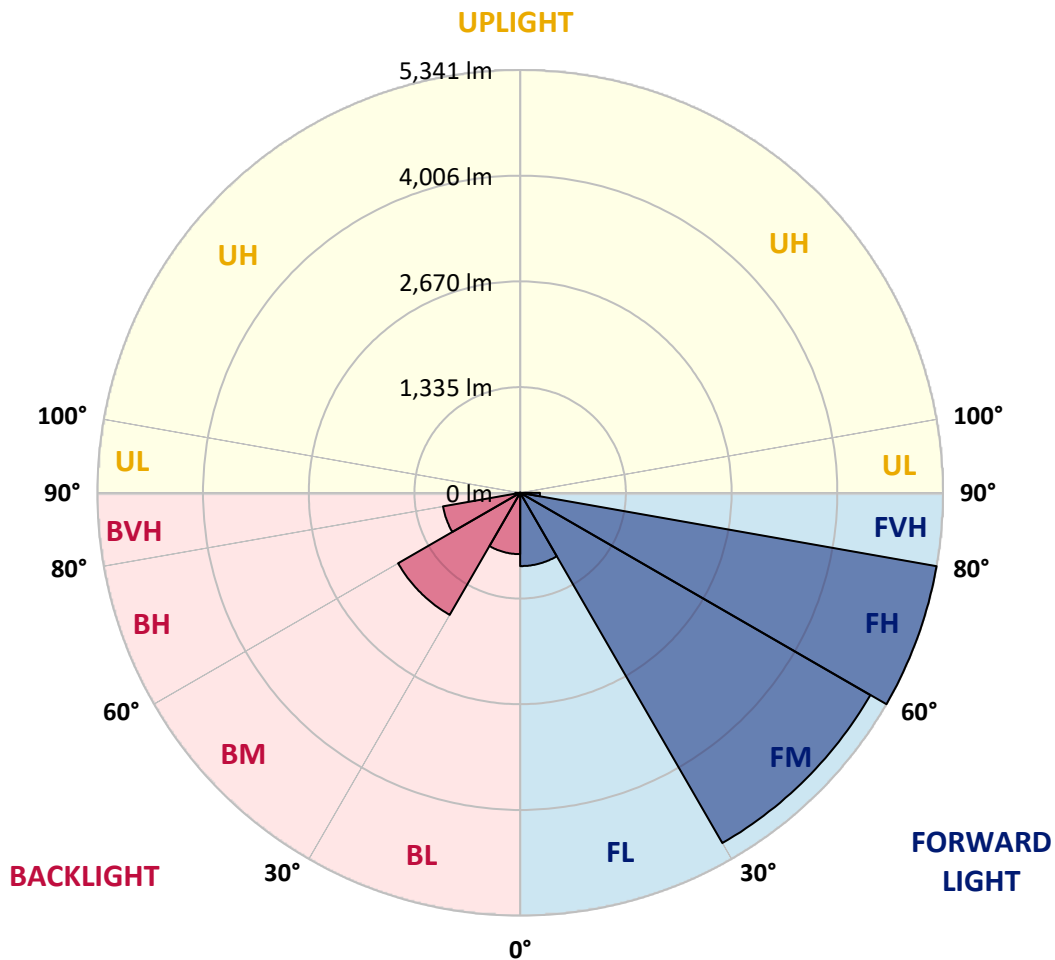
CATALOG NUMBER: OVF-E05-LED-E-U-SL3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 925.9 | 6.1 | | | |
| FM | (30°-60°) | 5107.7 | 33.5 | | | |
| FH | (60°-80°) | 5340.8 | 35.1 | | | G3/7500 |
| FVH | (80°-90°) | 249.9 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 775.3 | 5.1 | B2/1000 | | |
| BM | (30°-60°) | 1781.0 | 11.7 | B2/2500 | | |
| BH | (60°-80°) | 990.1 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 60.2 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CATALOG NUMBER: OVF-E05-LED-E-U-SL3-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 |
| 2.5° | 1701.3 | 1694.1 | 1695.1 | 1698.2 | 1687.9 | 1682.8 | 1671.5 | 1664.3 | 1663.3 | 1662.3 | 1658.2 |
| 5° | 1800.8 | 1793.6 | 1796.7 | 1788.5 | 1769.0 | 1755.7 | 1732.1 | 1719.8 | 1717.7 | 1715.6 | 1710.5 |
| 7.5° | 1904.5 | 1895.2 | 1885.0 | 1875.7 | 1854.2 | 1832.6 | 1801.8 | 1783.4 | 1781.3 | 1778.2 | 1775.2 |
| 10° | 2027.6 | 2014.2 | 2006.0 | 1977.3 | 1940.4 | 1910.6 | 1879.8 | 1860.3 | 1859.3 | 1856.2 | 1850.1 |
| 12.5° | 2166.1 | 2151.7 | 2136.4 | 2098.4 | 2040.9 | 1996.8 | 1960.9 | 1949.6 | 1940.4 | 1941.4 | 1935.2 |
| 15° | 2303.6 | 2288.2 | 2267.7 | 2219.5 | 2143.5 | 2077.9 | 2031.7 | 2015.3 | 2016.3 | 2011.2 | 2014.2 |
| 17.5° | 2419.6 | 2406.2 | 2376.5 | 2314.9 | 2226.6 | 2136.4 | 2077.9 | 2070.7 | 2072.7 | 2071.7 | 2074.8 |
| 20° | 2495.5 | 2487.3 | 2442.1 | 2368.3 | 2268.7 | 2169.2 | 2109.7 | 2109.7 | 2110.7 | 2114.8 | 2122.0 |
| 22.5° | 2541.7 | 2529.3 | 2469.8 | 2366.2 | 2267.7 | 2184.6 | 2138.4 | 2148.7 | 2154.8 | 2157.9 | 2169.2 |
| 25° | 2567.3 | 2551.9 | 2470.9 | 2333.4 | 2232.8 | 2195.9 | 2181.5 | 2207.2 | 2217.4 | 2222.5 | 2241.0 |
| 27.5° | 2567.3 | 2548.8 | 2457.5 | 2292.3 | 2192.8 | 2229.7 | 2263.6 | 2307.7 | 2314.9 | 2330.3 | 2351.8 |
| 30° | 2538.6 | 2524.2 | 2437.0 | 2261.5 | 2182.5 | 2293.3 | 2396.0 | 2446.2 | 2463.7 | 2481.1 | 2508.8 |
| 32.5° | 2507.8 | 2495.5 | 2426.7 | 2278.0 | 2240.0 | 2426.7 | 2598.1 | 2666.8 | 2677.1 | 2691.5 | 2720.2 |
| 35° | 2505.7 | 2501.6 | 2471.9 | 2382.6 | 2413.4 | 2671.0 | 2902.9 | 2950.1 | 2978.8 | 2986.0 | 2998.3 |
| 37.5° | 2527.3 | 2535.5 | 2561.2 | 2551.9 | 2662.7 | 3034.2 | 3302.0 | 3396.4 | 3419.0 | 3406.7 | 3418.0 |
| 40° | 2577.6 | 2598.1 | 2693.5 | 2811.5 | 3043.4 | 3473.4 | 3845.8 | 3954.6 | 3979.2 | 3972.1 | 3969.0 |
| 42.5° | 2736.6 | 2764.3 | 2904.9 | 3157.3 | 3439.5 | 3927.9 | 4350.7 | 4467.7 | 4475.9 | 4480.0 | 4453.3 |
| 45° | 2986.0 | 3001.4 | 3188.1 | 3510.3 | 3868.4 | 4417.4 | 4854.5 | 4984.8 | 4979.7 | 4959.2 | 4939.7 |
| 47.5° | 3269.2 | 3301.0 | 3524.7 | 3914.6 | 4311.7 | 4869.9 | 5364.5 | 5491.7 | 5503.0 | 5484.5 | 5448.6 |
| 50° | 3526.7 | 3551.4 | 3803.8 | 4266.5 | 4702.6 | 5246.5 | 5794.4 | 5922.7 | 5920.6 | 5930.9 | 5941.2 |
| 52.5° | 3729.9 | 3752.5 | 3992.6 | 4501.5 | 4990.0 | 5562.5 | 6118.7 | 6276.7 | 6301.3 | 6317.7 | 6338.3 |
| 55° | 3834.6 | 3858.2 | 4079.8 | 4599.0 | 5164.4 | 5871.4 | 6493.2 | 6720.0 | 6762.0 | 6799.0 | 6832.8 |
| 57.5° | 3836.6 | 3867.4 | 4070.6 | 4591.8 | 5254.7 | 6147.4 | 6988.8 | 7396.2 | 7455.7 | 7550.1 | 7666.0 |
| 60° | 3774.0 | 3817.1 | 3999.8 | 4525.1 | 5358.3 | 6497.3 | 7805.6 | 8585.4 | 8702.4 | 8867.6 | 9016.4 |
| 62.5° | 3610.9 | 3654.0 | 3817.1 | 4355.8 | 5479.4 | 6945.7 | 8985.6 | 10128.7 | 10378.0 | 10560.7 | 10855.2 |
| 65° | 3353.3 | 3394.4 | 3531.9 | 4075.7 | 5382.9 | 7299.7 | 9865.0 | 11235.9 | 11490.3 | 11719.2 | 12064.9 |
| 67° | 3123.5 | 3127.6 | 3243.5 | 3754.5 | 5007.4 | 7189.9 | 10041.5 | 11383.6 | 11618.6 | 11850.5 | 12251.7 |
| 67.5° | 3042.4 | 3065.0 | 3155.3 | 3647.8 | 4864.8 | 7108.9 | 9971.7 | 11303.6 | 11531.4 | 11778.7 | 12188.1 |
| 70° | 2459.6 | 2465.7 | 2553.0 | 2910.0 | 3860.2 | 5893.9 | 8956.9 | 10282.6 | 10438.6 | 10800.8 | 11203.0 |
| 72.5° | 1500.2 | 1489.9 | 1517.6 | 1782.3 | 2540.6 | 4081.8 | 7171.5 | 8465.4 | 8678.8 | 8987.7 | 9259.6 |
| 75° | 826.0 | 875.3 | 909.1 | 1092.8 | 1427.3 | 2400.1 | 4883.2 | 6124.8 | 6437.8 | 6621.5 | 6675.8 |
| 77.5° | 504.8 | 500.7 | 516.1 | 704.9 | 1170.8 | 1641.8 | 2697.6 | 3593.4 | 3767.9 | 3820.2 | 3618.0 |
| 80° | 240.1 | 249.3 | 246.3 | 290.4 | 567.4 | 1385.2 | 1886.0 | 2307.7 | 2396.0 | 2446.2 | 2511.9 |
| 82.5° | 131.3 | 136.5 | 154.9 | 173.4 | 223.7 | 596.2 | 1627.4 | 2128.1 | 2187.7 | 2273.8 | 2370.3 |
| 85° | 82.1 | 86.2 | 119.0 | 125.2 | 137.5 | 183.7 | 678.3 | 1243.6 | 1293.9 | 1465.3 | 1519.7 |
| 87.5° | 33.9 | 36.9 | 64.6 | 58.5 | 69.8 | 64.6 | 205.2 | 316.0 | 335.5 | 357.1 | 396.1 |
| 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: P161889

CATALOG NUMBER: OVF-E05-LED-E-U-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 67.5° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 |
| 2.5° | 1659.2 | 1658.2 | 1654.1 | 1653.1 | 1655.1 | 1655.1 | 1653.1 | 1650.0 | 1649.0 | 1647.9 | 1645.9 |
| 5° | 1708.5 | 1706.4 | 1703.3 | 1701.3 | 1700.3 | 1700.3 | 1697.2 | 1694.1 | 1691.0 | 1686.9 | 1685.9 |
| 7.5° | 1767.0 | 1767.0 | 1765.9 | 1762.8 | 1759.8 | 1755.7 | 1752.6 | 1749.5 | 1746.4 | 1744.4 | 1741.3 |
| 10° | 1843.9 | 1848.0 | 1840.8 | 1838.8 | 1837.8 | 1831.6 | 1830.6 | 1827.5 | 1825.4 | 1820.3 | 1820.3 |
| 12.5° | 1935.2 | 1931.1 | 1930.1 | 1926.0 | 1926.0 | 1922.9 | 1921.9 | 1920.9 | 1918.8 | 1914.7 | 1913.7 |
| 15° | 2011.2 | 2011.2 | 2010.1 | 2008.1 | 2010.1 | 2008.1 | 2005.0 | 2007.1 | 2004.0 | 2005.0 | 2001.9 |
| 17.5° | 2072.7 | 2076.8 | 2075.8 | 2076.8 | 2075.8 | 2075.8 | 2077.9 | 2077.9 | 2079.9 | 2075.8 | 2076.8 |
| 20° | 2124.0 | 2130.2 | 2133.3 | 2131.2 | 2133.3 | 2134.3 | 2139.4 | 2141.5 | 2144.6 | 2146.6 | 2146.6 |
| 22.5° | 2177.4 | 2185.6 | 2191.8 | 2191.8 | 2195.9 | 2200.0 | 2209.2 | 2211.3 | 2218.4 | 2217.4 | 2222.5 |
| 25° | 2252.3 | 2265.6 | 2269.7 | 2275.9 | 2281.0 | 2288.2 | 2299.5 | 2304.6 | 2307.7 | 2314.9 | 2323.1 |
| 27.5° | 2367.2 | 2383.6 | 2386.7 | 2393.9 | 2407.2 | 2411.3 | 2423.7 | 2428.8 | 2440.1 | 2455.5 | 2458.5 |
| 30° | 2524.2 | 2544.7 | 2545.8 | 2554.0 | 2569.4 | 2574.5 | 2584.8 | 2598.1 | 2607.3 | 2622.7 | 2623.8 |
| 32.5° | 2737.6 | 2758.2 | 2755.1 | 2770.5 | 2769.5 | 2784.9 | 2781.8 | 2802.3 | 2810.5 | 2818.7 | 2841.3 |
| 35° | 3021.9 | 3019.8 | 3035.2 | 3040.4 | 3037.3 | 3049.6 | 3047.5 | 3056.8 | 3065.0 | 3065.0 | 3089.6 |
| 37.5° | 3431.3 | 3428.2 | 3426.2 | 3404.6 | 3399.5 | 3400.5 | 3396.4 | 3404.6 | 3391.3 | 3391.3 | 3418.0 |
| 40° | 3980.3 | 3961.8 | 3947.4 | 3933.1 | 3918.7 | 3899.2 | 3882.8 | 3878.7 | 3856.1 | 3855.1 | 3844.8 |
| 42.5° | 4457.4 | 4440.0 | 4429.7 | 4402.0 | 4387.6 | 4384.5 | 4344.5 | 4333.2 | 4327.1 | 4331.2 | 4320.9 |
| 45° | 4958.1 | 4939.7 | 4900.7 | 4888.4 | 4884.3 | 4862.7 | 4856.6 | 4828.9 | 4820.6 | 4835.0 | 4829.9 |
| 47.5° | 5474.3 | 5447.6 | 5426.0 | 5411.7 | 5406.5 | 5388.1 | 5361.4 | 5384.0 | 5372.7 | 5364.5 | 5349.1 |
| 50° | 5938.1 | 5908.3 | 5908.3 | 5882.7 | 5886.8 | 5874.5 | 5846.7 | 5852.9 | 5821.1 | 5833.4 | 5825.2 |
| 52.5° | 6327.0 | 6329.0 | 6339.3 | 6310.5 | 6315.7 | 6315.7 | 6306.4 | 6276.7 | 6284.9 | 6280.8 | 6300.3 |
| 55° | 6821.5 | 6855.4 | 6836.9 | 6842.1 | 6848.2 | 6877.0 | 6897.5 | 6880.0 | 6851.3 | 6873.9 | 6936.5 |
| 57.5° | 7686.6 | 7717.3 | 7735.8 | 7750.2 | 7773.8 | 7787.1 | 7897.9 | 7913.3 | 7880.5 | 7948.2 | 8087.8 |
| 60° | 9190.8 | 9227.8 | 9283.2 | 9356.0 | 9371.4 | 9464.8 | 9522.3 | 9590.0 | 9614.6 | 9673.1 | 9822.9 |
| 62.5° | 10999.9 | 11083.0 | 11093.2 | 11185.6 | 11257.4 | 11170.2 | 11192.8 | 11275.9 | 11181.5 | 11310.8 | 11316.9 |
| 65° | 12184.0 | 12305.1 | 12309.2 | 12343.0 | 12369.7 | 12287.6 | 12250.7 | 12213.7 | 12124.5 | 12119.3 | 12208.6 |
| 67° | 12387.1 | 12498.0 | 12544.1 | 12560.6 | 12556.5 | 12514.4 | 12453.8 | 12347.1 | 12260.9 | 12211.7 | 12248.6 |
| 67.5° | 12329.7 | 12438.5 | 12503.1 | 12518.5 | 12519.5 | 12478.5 | 12423.1 | 12307.1 | 12226.0 | 12170.6 | 12209.6 |
| 70° | 11385.7 | 11640.1 | 11751.0 | 11693.5 | 11726.3 | 11726.3 | 11724.3 | 11617.6 | 11577.5 | 11524.2 | 11503.7 |
| 72.5° | 9466.8 | 9643.3 | 9783.9 | 9709.0 | 9718.2 | 9788.0 | 9771.6 | 9782.9 | 9668.0 | 9655.7 | 9465.8 |
| 75° | 6781.5 | 6838.0 | 6790.8 | 6844.1 | 6556.8 | 6454.2 | 6279.8 | 6025.3 | 5958.6 | 5852.9 | 5536.9 |
| 77.5° | 3602.7 | 3539.0 | 3412.8 | 3402.6 | 3284.6 | 3193.2 | 3080.4 | 3006.5 | 2819.7 | 2716.1 | 2479.1 |
| 80° | 2544.7 | 2575.5 | 2623.8 | 2652.5 | 2679.2 | 2699.7 | 2657.6 | 2539.6 | 2383.6 | 2209.2 | 2044.0 |
| 82.5° | 2430.8 | 2472.9 | 2501.6 | 2516.0 | 2505.7 | 2472.9 | 2376.5 | 2263.6 | 2055.3 | 1904.5 | 1725.9 |
| 85° | 1533.0 | 1566.9 | 1508.4 | 1496.1 | 1521.7 | 1314.4 | 1200.5 | 1108.2 | 897.8 | 835.2 | 737.8 |
| 87.5° | 411.5 | 434.0 | 435.1 | 421.7 | 413.5 | 364.3 | 322.2 | 285.3 | 236.0 | 221.6 | 179.6 |
| 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: OVF-E05-LED-E-U-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 |
| 2.5° | 1645.9 | 1644.8 | 1644.8 | 1641.8 | 1639.7 | 1638.7 | 1637.7 | 1634.6 | 1632.5 | 1632.5 | 1631.5 |
| 5° | 1684.9 | 1682.8 | 1679.7 | 1678.7 | 1674.6 | 1672.6 | 1668.4 | 1666.4 | 1663.3 | 1661.3 | 1660.2 |
| 7.5° | 1740.3 | 1735.1 | 1729.0 | 1730.0 | 1723.9 | 1720.8 | 1718.7 | 1714.6 | 1711.5 | 1708.5 | 1707.4 |
| 10° | 1814.2 | 1813.1 | 1807.0 | 1809.0 | 1797.7 | 1802.9 | 1792.6 | 1793.6 | 1787.5 | 1781.3 | 1780.3 |
| 12.5° | 1908.6 | 1907.5 | 1901.4 | 1894.2 | 1892.1 | 1893.2 | 1887.0 | 1888.0 | 1880.9 | 1878.8 | 1876.7 |
| 15° | 1998.9 | 1996.8 | 1993.7 | 1988.6 | 1985.5 | 1984.5 | 1982.4 | 1980.4 | 1974.2 | 1974.2 | 1967.0 |
| 17.5° | 2076.8 | 2077.9 | 2073.8 | 2069.7 | 2067.6 | 2064.5 | 2063.5 | 2063.5 | 2058.4 | 2053.2 | 2054.3 |
| 20° | 2145.6 | 2147.6 | 2147.6 | 2144.6 | 2145.6 | 2143.5 | 2142.5 | 2144.6 | 2139.4 | 2137.4 | 2134.3 |
| 22.5° | 2222.5 | 2222.5 | 2223.6 | 2225.6 | 2228.7 | 2229.7 | 2229.7 | 2227.7 | 2224.6 | 2223.6 | 2217.4 |
| 25° | 2329.3 | 2325.2 | 2330.3 | 2332.3 | 2332.3 | 2337.5 | 2335.4 | 2336.4 | 2337.5 | 2334.4 | 2331.3 |
| 27.5° | 2463.7 | 2459.6 | 2469.8 | 2477.0 | 2476.0 | 2479.1 | 2485.2 | 2478.0 | 2482.1 | 2485.2 | 2478.0 |
| 30° | 2628.9 | 2639.1 | 2646.3 | 2651.5 | 2649.4 | 2658.6 | 2661.7 | 2660.7 | 2657.6 | 2662.7 | 2662.7 |
| 32.5° | 2839.2 | 2834.1 | 2852.6 | 2863.9 | 2864.9 | 2862.8 | 2868.0 | 2874.1 | 2869.0 | 2877.2 | 2873.1 |
| 35° | 3089.6 | 3092.7 | 3096.8 | 3109.1 | 3114.2 | 3106.0 | 3114.2 | 3121.4 | 3119.4 | 3120.4 | 3124.5 |
| 37.5° | 3412.8 | 3418.0 | 3413.9 | 3414.9 | 3412.8 | 3451.8 | 3458.0 | 3464.1 | 3456.9 | 3450.8 | 3469.3 |
| 40° | 3861.2 | 3861.2 | 3860.2 | 3873.5 | 3851.0 | 3875.6 | 3868.4 | 3885.9 | 3904.3 | 3894.1 | 3921.8 |
| 42.5° | 4302.5 | 4327.1 | 4329.1 | 4309.6 | 4326.1 | 4352.7 | 4352.7 | 4364.0 | 4380.4 | 4364.0 | 4390.7 |
| 45° | 4808.3 | 4839.1 | 4834.0 | 4866.8 | 4842.2 | 4873.0 | 4878.1 | 4863.7 | 4899.7 | 4903.8 | 4893.5 |
| 47.5° | 5360.4 | 5366.5 | 5367.6 | 5378.8 | 5384.0 | 5408.6 | 5407.6 | 5434.3 | 5426.0 | 5385.0 | 5399.4 |
| 50° | 5833.4 | 5848.8 | 5857.0 | 5864.2 | 5889.8 | 5907.3 | 5930.9 | 5935.0 | 5928.8 | 5916.5 | 5905.2 |
| 52.5° | 6306.4 | 6343.4 | 6367.0 | 6430.6 | 6470.6 | 6502.4 | 6541.4 | 6555.8 | 6548.6 | 6545.5 | 6500.4 |
| 55° | 6939.6 | 7027.8 | 7164.3 | 7252.5 | 7349.0 | 7405.4 | 7450.6 | 7473.1 | 7456.7 | 7464.9 | 7371.5 |
| 57.5° | 8131.9 | 8339.2 | 8458.2 | 8609.0 | 8779.4 | 8850.2 | 8869.7 | 8949.7 | 8861.4 | 8773.2 | 8702.4 |
| 60° | 9904.0 | 10094.8 | 10311.3 | 10466.3 | 10523.7 | 10719.7 | 10627.4 | 10523.7 | 10429.3 | 10246.7 | 10040.4 |
| 62.5° | 11503.7 | 11749.9 | 11860.8 | 12005.4 | 11966.4 | 11950.0 | 11888.5 | 11723.3 | 11521.1 | 11249.2 | 10974.2 |
| 65° | 12292.7 | 12431.3 | 12500.0 | 12547.2 | 12503.1 | 12389.2 | 12186.0 | 11941.8 | 11652.5 | 11300.5 | 10939.3 |
| 67° | 12324.6 | 12388.2 | 12410.7 | 12365.6 | 12267.1 | 12089.6 | 11833.0 | 11487.3 | 11131.2 | 10727.9 | 10321.6 |
| 67.5° | 12272.2 | 12314.3 | 12325.6 | 12254.8 | 12137.8 | 11945.9 | 11671.9 | 11302.6 | 10923.9 | 10505.3 | 10096.9 |
| 70° | 11558.1 | 11527.3 | 11427.7 | 11330.3 | 10965.0 | 10707.4 | 10230.3 | 9836.2 | 9310.9 | 8926.1 | 8490.0 |
| 72.5° | 9389.9 | 9249.3 | 9152.9 | 8721.9 | 8280.7 | 8025.2 | 7512.1 | 7041.1 | 6561.9 | 6195.6 | 5927.8 |
| 75° | 5271.1 | 5168.5 | 4900.7 | 4672.9 | 4308.6 | 3975.1 | 3736.0 | 3436.4 | 3149.1 | 2978.8 | 2853.6 |
| 77.5° | 2381.6 | 2088.1 | 1886.0 | 1630.5 | 1317.5 | 1058.9 | 786.0 | 726.5 | 619.8 | 593.1 | 534.6 |
| 80° | 1858.3 | 1647.9 | 1383.2 | 1090.8 | 769.6 | 517.2 | 379.7 | 322.2 | 302.7 | 290.4 | 284.2 |
| 82.5° | 1550.4 | 1277.5 | 1075.4 | 763.4 | 488.4 | 328.4 | 247.3 | 223.7 | 209.3 | 199.1 | 189.8 |
| 85° | 662.9 | 524.3 | 432.0 | 308.9 | 219.6 | 173.4 | 151.9 | 138.5 | 125.2 | 113.9 | 106.7 |
| 87.5° | 154.9 | 119.0 | 108.8 | 92.3 | 87.2 | 86.2 | 85.2 | 81.1 | 75.9 | 69.8 | 62.6 |
| 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: P161889

CATALOG NUMBER: OVF-E05-LED-E-U-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 | 1620.2 |
| 2.5° | 1630.5 | 1629.5 | 1627.4 | 1624.3 | 1624.3 | 1620.2 | 1606.9 | 1597.6 | 1587.4 | 1581.2 | 1575.1 |
| 5° | 1658.2 | 1657.2 | 1652.0 | 1649.0 | 1646.9 | 1638.7 | 1616.1 | 1598.7 | 1580.2 | 1566.9 | 1556.6 |
| 7.5° | 1704.4 | 1701.3 | 1697.2 | 1695.1 | 1689.0 | 1678.7 | 1645.9 | 1621.2 | 1594.6 | 1573.0 | 1555.6 |
| 10° | 1779.3 | 1774.1 | 1768.0 | 1761.8 | 1763.9 | 1747.5 | 1709.5 | 1673.6 | 1634.6 | 1600.7 | 1577.1 |
| 12.5° | 1870.6 | 1870.6 | 1867.5 | 1863.4 | 1856.2 | 1837.8 | 1786.4 | 1744.4 | 1697.2 | 1655.1 | 1637.7 |
| 15° | 1967.0 | 1961.9 | 1956.8 | 1950.6 | 1949.6 | 1925.0 | 1878.8 | 1830.6 | 1781.3 | 1745.4 | 1724.9 |
| 17.5° | 2046.1 | 2048.1 | 2040.9 | 2038.9 | 2036.8 | 2012.2 | 1962.9 | 1919.8 | 1883.9 | 1846.0 | 1813.1 |
| 20° | 2130.2 | 2126.1 | 2124.0 | 2121.0 | 2119.9 | 2099.4 | 2060.4 | 2033.7 | 2001.9 | 1944.5 | 1858.3 |
| 22.5° | 2220.5 | 2215.4 | 2217.4 | 2211.3 | 2210.2 | 2195.9 | 2167.1 | 2158.9 | 2111.7 | 1990.6 | 1840.8 |
| 25° | 2337.5 | 2328.2 | 2331.3 | 2331.3 | 2332.3 | 2319.0 | 2315.9 | 2301.6 | 2182.5 | 1979.4 | 1771.1 |
| 27.5° | 2477.0 | 2481.1 | 2481.1 | 2480.1 | 2472.9 | 2477.0 | 2491.4 | 2442.1 | 2207.2 | 1919.8 | 1666.4 |
| 30° | 2658.6 | 2660.7 | 2662.7 | 2669.9 | 2654.5 | 2681.2 | 2698.7 | 2541.7 | 2188.7 | 1837.8 | 1535.1 |
| 32.5° | 2879.3 | 2871.0 | 2875.1 | 2879.3 | 2884.4 | 2912.1 | 2901.8 | 2591.9 | 2134.3 | 1725.9 | 1371.9 |
| 35° | 3122.4 | 3137.8 | 3141.9 | 3151.2 | 3161.4 | 3203.5 | 3085.5 | 2602.2 | 2051.2 | 1576.1 | 1163.6 |
| 37.5° | 3484.7 | 3509.3 | 3509.3 | 3542.1 | 3522.6 | 3573.9 | 3249.7 | 2577.6 | 1925.0 | 1367.8 | 928.6 |
| 40° | 3941.3 | 3952.6 | 3963.8 | 3967.9 | 3957.7 | 3951.5 | 3357.4 | 2517.0 | 1747.5 | 1106.1 | 679.3 |
| 42.5° | 4407.1 | 4403.0 | 4404.0 | 4411.2 | 4383.5 | 4267.6 | 3424.1 | 2411.3 | 1526.8 | 826.0 | 487.4 |
| 45° | 4908.9 | 4891.4 | 4886.3 | 4871.9 | 4847.3 | 4603.1 | 3462.1 | 2262.6 | 1236.5 | 580.8 | 382.7 |
| 47.5° | 5397.3 | 5375.8 | 5342.9 | 5302.9 | 5255.7 | 4873.0 | 3458.0 | 2069.7 | 948.1 | 415.6 | 337.6 |
| 50° | 5898.1 | 5860.1 | 5789.3 | 5750.3 | 5670.3 | 5140.8 | 3434.4 | 1855.2 | 682.4 | 343.7 | 316.0 |
| 52.5° | 6470.6 | 6402.9 | 6337.2 | 6259.2 | 6126.9 | 5470.2 | 3398.5 | 1614.1 | 497.7 | 315.0 | 301.7 |
| 55° | 7324.3 | 7213.5 | 7105.8 | 6943.7 | 6815.4 | 5911.4 | 3337.9 | 1354.5 | 393.0 | 303.7 | 293.5 |
| 57.5° | 8501.3 | 8312.5 | 8176.0 | 7957.4 | 7752.2 | 6521.9 | 3273.3 | 1118.5 | 350.9 | 300.6 | 289.4 |
| 60° | 9826.0 | 9541.8 | 9287.3 | 9018.4 | 8784.5 | 7284.3 | 3239.4 | 933.8 | 341.7 | 303.7 | 290.4 |
| 62.5° | 10657.1 | 10321.6 | 10003.5 | 9675.1 | 9338.6 | 7648.6 | 3092.7 | 806.5 | 345.8 | 317.1 | 298.6 |
| 65° | 10552.5 | 10182.0 | 9836.2 | 9436.1 | 9119.0 | 7304.8 | 2719.2 | 682.4 | 353.0 | 340.7 | 321.2 |
| 67° | 9846.5 | 9487.4 | 9093.3 | 8701.4 | 8393.5 | 6651.2 | 2295.4 | 574.6 | 361.2 | 367.3 | 345.8 |
| 67.5° | 9657.7 | 9253.4 | 8856.3 | 8496.2 | 8162.7 | 6449.1 | 2184.6 | 547.9 | 363.2 | 374.5 | 354.0 |
| 70° | 8053.9 | 7733.8 | 7268.9 | 7002.1 | 6761.0 | 5228.0 | 1629.5 | 425.8 | 369.4 | 406.3 | 393.0 |
| 72.5° | 5635.4 | 5325.5 | 5082.3 | 4936.6 | 4796.0 | 3798.6 | 1146.2 | 339.6 | 360.2 | 423.8 | 410.4 |
| 75° | 2846.4 | 2775.6 | 2690.4 | 2643.2 | 2645.3 | 2208.2 | 690.6 | 289.4 | 338.6 | 406.3 | 372.5 |
| 77.5° | 562.3 | 547.9 | 554.1 | 606.4 | 597.2 | 680.3 | 342.7 | 245.2 | 288.3 | 313.0 | 267.8 |
| 80° | 271.9 | 262.7 | 254.5 | 252.4 | 247.3 | 237.0 | 215.5 | 204.2 | 234.0 | 206.2 | 177.5 |
| 82.5° | 176.5 | 166.2 | 162.1 | 153.9 | 154.9 | 168.3 | 187.8 | 196.0 | 189.8 | 142.6 | 120.1 |
| 85° | 99.5 | 98.5 | 96.5 | 98.5 | 102.6 | 134.4 | 201.1 | 183.7 | 152.9 | 100.6 | 90.3 |
| 87.5° | 59.5 | 56.4 | 57.5 | 58.5 | 60.5 | 99.5 | 159.0 | 132.4 | 97.5 | 52.3 | 53.4 |
| 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: P161889

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CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1620.2 | 1620.2 | 1620.2 | 1620.2 |
| 2.5° | 1574.0 | 1569.9 | 1569.9 | 1568.9 |
| 5° | 1548.4 | 1542.2 | 1541.2 | 1541.2 |
| 7.5° | 1544.3 | 1536.1 | 1535.1 | 1532.0 |
| 10° | 1562.8 | 1559.7 | 1560.7 | 1557.6 |
| 12.5° | 1621.2 | 1625.4 | 1629.5 | 1629.5 |
| 15° | 1710.5 | 1707.4 | 1712.6 | 1707.4 |
| 17.5° | 1776.2 | 1749.5 | 1743.4 | 1740.3 |
| 20° | 1778.2 | 1722.8 | 1704.4 | 1701.3 |
| 22.5° | 1714.6 | 1632.5 | 1601.8 | 1596.6 |
| 25° | 1606.9 | 1503.2 | 1464.3 | 1460.1 |
| 27.5° | 1471.4 | 1355.5 | 1298.0 | 1296.0 |
| 30° | 1308.3 | 1170.8 | 1097.9 | 1086.6 |
| 32.5° | 1109.2 | 946.1 | 869.1 | 844.5 |
| 35° | 879.4 | 712.1 | 640.3 | 638.2 |
| 37.5° | 656.7 | 526.4 | 480.2 | 478.2 |
| 40° | 481.2 | 413.5 | 396.1 | 393.0 |
| 42.5° | 393.0 | 365.3 | 358.1 | 355.0 |
| 45° | 352.0 | 340.7 | 336.6 | 333.5 |
| 47.5° | 327.3 | 320.1 | 317.1 | 317.1 |
| 50° | 307.8 | 305.8 | 303.7 | 303.7 |
| 52.5° | 294.5 | 293.5 | 291.4 | 290.4 |
| 55° | 283.2 | 279.1 | 280.1 | 279.1 |
| 57.5° | 276.0 | 269.9 | 269.9 | 269.9 |
| 60° | 271.9 | 260.6 | 260.6 | 261.7 |
| 62.5° | 272.9 | 255.5 | 254.5 | 254.5 |
| 65° | 281.2 | 252.4 | 246.3 | 247.3 |
| 67° | 291.4 | 249.3 | 237.0 | 236.0 |
| 67.5° | 294.5 | 247.3 | 234.0 | 232.9 |
| 70° | 306.8 | 241.1 | 218.6 | 216.5 |
| 72.5° | 308.9 | 231.9 | 203.2 | 201.1 |
| 75° | 287.3 | 219.6 | 190.9 | 185.7 |
| 77.5° | 223.7 | 188.8 | 172.4 | 172.4 |
| 80° | 157.0 | 144.7 | 123.1 | 122.1 |
| 82.5° | 114.9 | 108.8 | 90.3 | 88.2 |
| 85° | 84.1 | 79.0 | 66.7 | 66.7 |
| 87.5° | 52.3 | 50.3 | 43.1 | 41.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)