

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: P158153

Luminaire Tested: **VTS-F08-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158153
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F08-LED-E1-SL2-8030
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

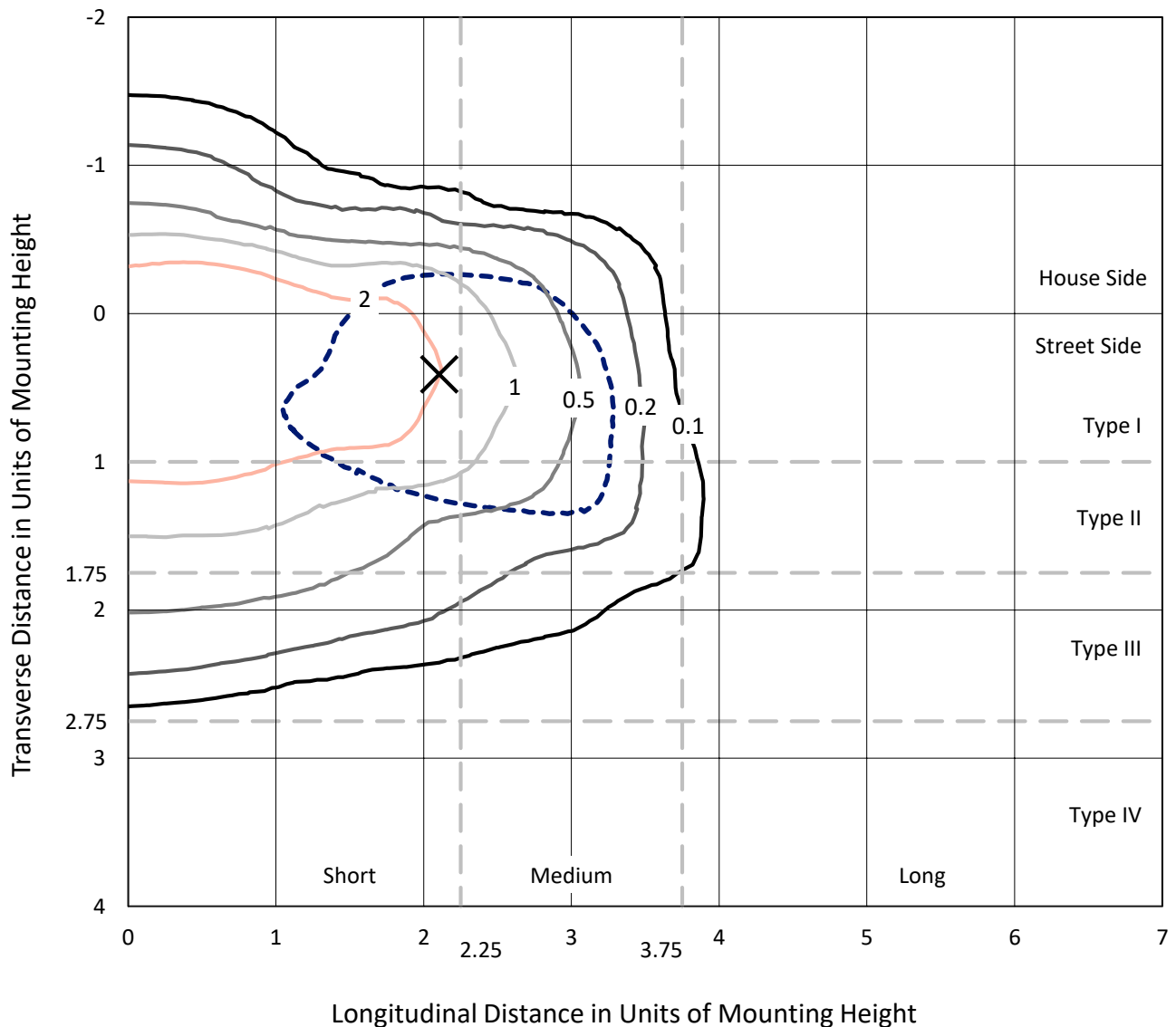
Lumens per Lamp: N/A
Luminaire Lumens: 16770.5 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.4
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

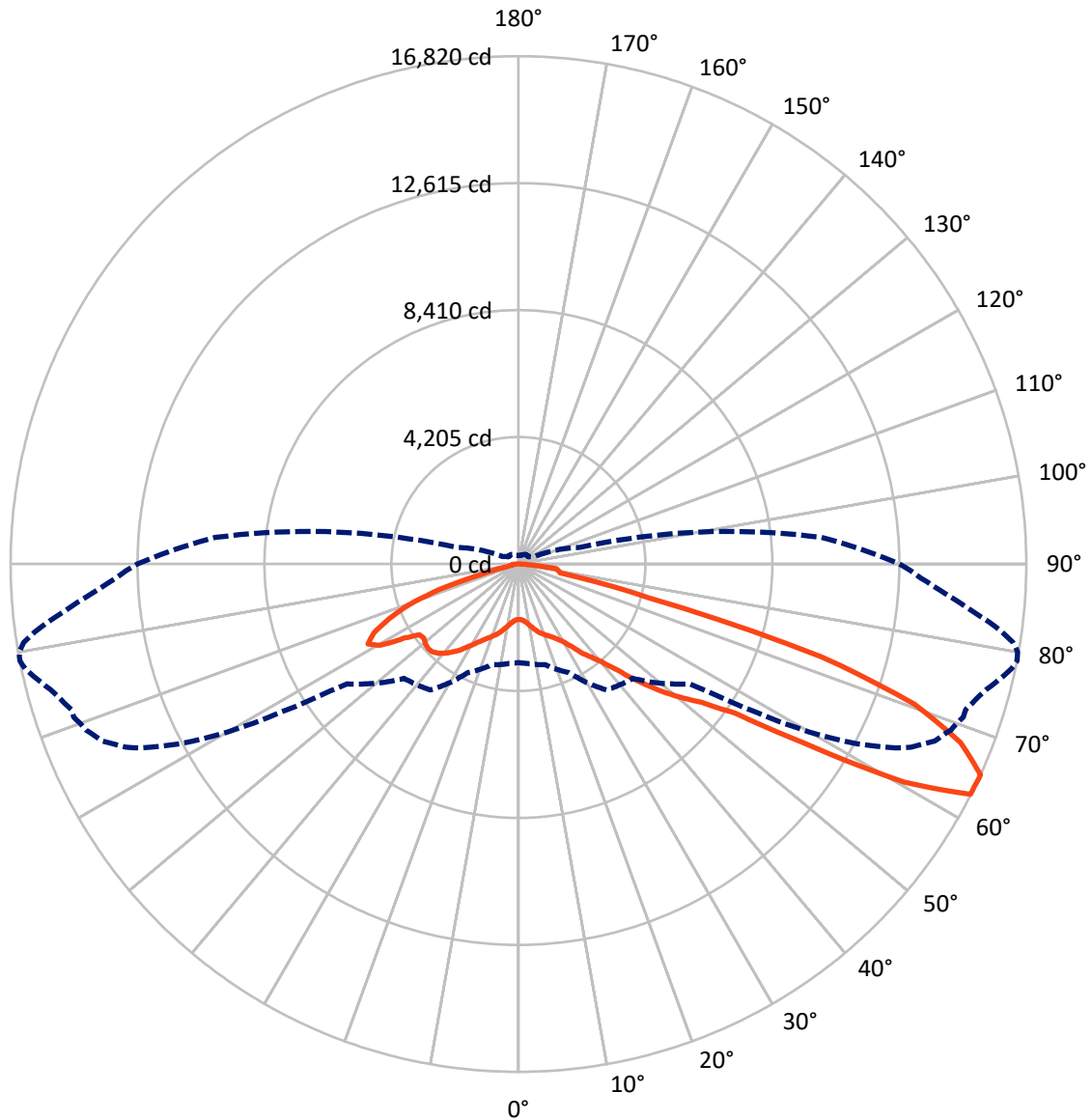
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3853.6 | 0.0 | 3853.6 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 12917.0 | 0.0 | 12917.0 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 16770.5 | 0.0 | 16770.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 181.5 | 1.1 |
| 10°-20° | 589.6 | 3.5 |
| 20°-30° | 1016.4 | 6.1 |
| 30°-40° | 1664.9 | 9.9 |
| 40°-50° | 2788.2 | 16.6 |
| 50°-60° | 3771.4 | 22.5 |
| 60°-70° | 4644.5 | 27.7 |
| 70°-80° | 1797.8 | 10.7 |
| 80°-90° | 316.2 | 1.9 |
| 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° | 16770.5 | 100.0 |
| 0°-180° | 16770.5 | 100.0 |



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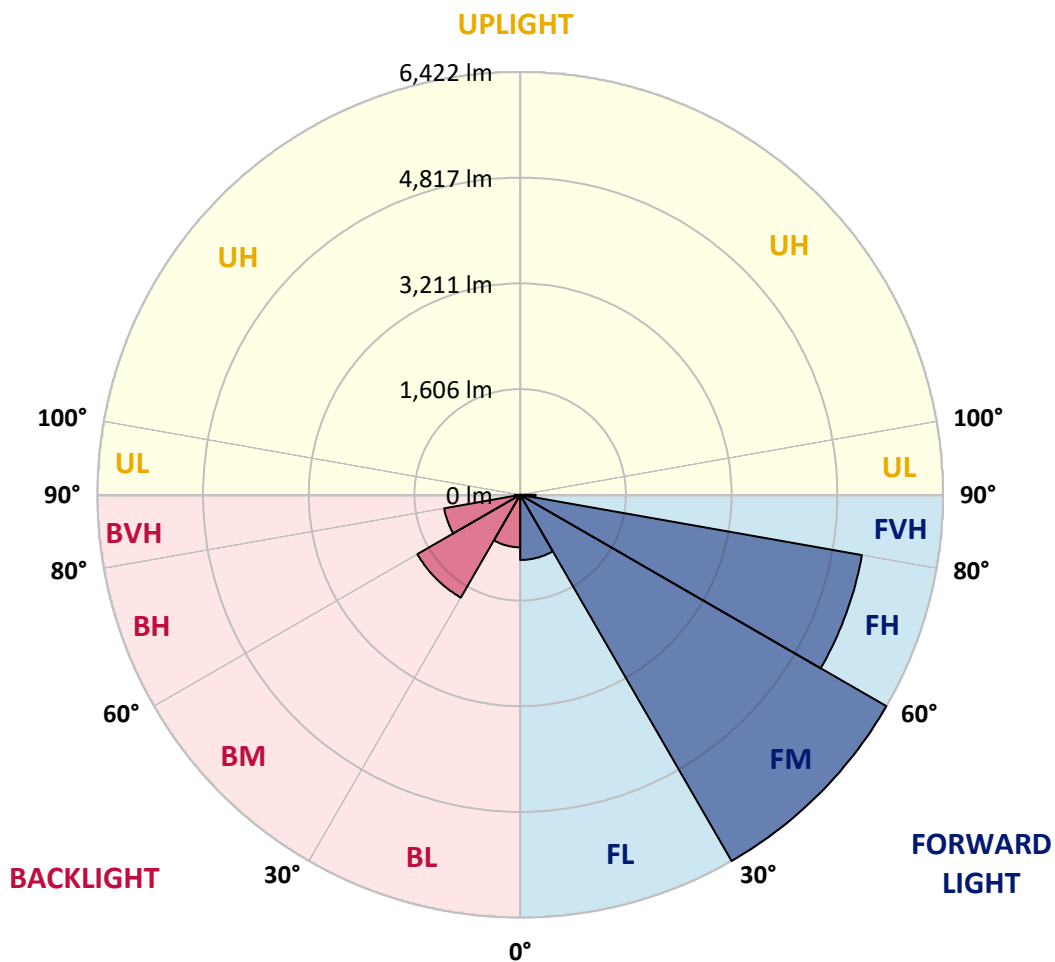
CATALOG NUMBER: VTS-F08-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 990.1 | 5.9 | | | |
| FM (30°-60°) | 6422.4 | 38.3 | | | |
| FH (60°-80°) | 5269.9 | 31.4 | | | G3/7500 |
| FVH (80°-90°) | 234.6 | 1.4 | | | G3/500 |
| BL (0°-30°) | 797.5 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1802.1 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1172.4 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 81.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 |
| 2.5° | 1838.3 | 1832.7 | 1838.3 | 1842.7 | 1846.1 | 1850.5 | 1849.4 | 1848.3 | 1847.2 | 1848.3 | 1848.3 |
| 5° | 1853.9 | 1852.8 | 1858.3 | 1862.8 | 1870.6 | 1876.2 | 1882.9 | 1882.9 | 1882.9 | 1881.7 | 1884.0 |
| 7.5° | 1904.0 | 1902.9 | 1908.5 | 1913.0 | 1919.6 | 1930.8 | 1939.7 | 1944.2 | 1943.1 | 1943.1 | 1943.1 |
| 10° | 1986.5 | 1982.1 | 1982.1 | 1982.1 | 1991.0 | 1998.8 | 2018.9 | 2021.1 | 2025.5 | 2023.3 | 2024.4 |
| 12.5° | 2066.8 | 2067.9 | 2064.6 | 2061.2 | 2062.3 | 2077.9 | 2106.9 | 2112.5 | 2113.6 | 2117.0 | 2119.2 |
| 15° | 2139.3 | 2138.1 | 2130.3 | 2122.5 | 2132.6 | 2159.3 | 2197.2 | 2207.3 | 2207.3 | 2213.9 | 2218.4 |
| 17.5° | 2206.1 | 2203.9 | 2189.4 | 2176.0 | 2186.1 | 2231.8 | 2290.9 | 2297.6 | 2307.6 | 2310.9 | 2315.4 |
| 20° | 2285.3 | 2280.8 | 2264.1 | 2228.4 | 2228.4 | 2290.9 | 2368.9 | 2375.6 | 2384.5 | 2386.7 | 2394.5 |
| 22.5° | 2395.7 | 2384.5 | 2348.8 | 2284.2 | 2266.3 | 2338.8 | 2434.7 | 2438.0 | 2444.7 | 2453.6 | 2460.3 |
| 25° | 2520.5 | 2522.7 | 2464.8 | 2352.2 | 2313.2 | 2389.0 | 2498.2 | 2503.8 | 2516.1 | 2522.7 | 2530.5 |
| 27.5° | 2649.8 | 2653.2 | 2588.5 | 2448.1 | 2382.3 | 2458.1 | 2584.1 | 2590.7 | 2605.2 | 2613.0 | 2625.3 |
| 30° | 2797.0 | 2801.4 | 2739.0 | 2597.4 | 2497.1 | 2559.5 | 2711.1 | 2729.0 | 2741.2 | 2751.3 | 2771.3 |
| 32.5° | 3150.4 | 3123.6 | 3080.1 | 2929.6 | 2771.3 | 2766.9 | 2916.3 | 2936.3 | 2953.0 | 2974.2 | 2993.2 |
| 35° | 3595.2 | 3611.9 | 3634.2 | 3532.7 | 3393.4 | 3291.9 | 3304.2 | 3293.1 | 3308.7 | 3339.9 | 3358.8 |
| 37.5° | 3947.4 | 3984.2 | 4081.2 | 4147.0 | 4141.4 | 4121.3 | 3934.0 | 3934.0 | 3944.1 | 3927.4 | 3925.1 |
| 40° | 4223.9 | 4247.3 | 4445.7 | 4701.0 | 4916.2 | 5022.1 | 4873.8 | 4852.6 | 4863.8 | 4777.9 | 4781.3 |
| 42.5° | 4366.6 | 4401.1 | 4686.5 | 5134.7 | 5561.6 | 5901.6 | 5855.9 | 5841.4 | 5808.0 | 5786.8 | 5773.4 |
| 45° | 4439.0 | 4480.3 | 4820.3 | 5435.7 | 6057.7 | 6582.8 | 6819.1 | 6816.9 | 6786.8 | 6762.2 | 6751.1 |
| 47.5° | 4402.3 | 4437.9 | 4800.2 | 5527.1 | 6318.6 | 7022.0 | 7544.8 | 7577.1 | 7568.2 | 7603.9 | 7618.4 |
| 50° | 4161.5 | 4207.2 | 4570.6 | 5329.7 | 6209.3 | 7194.8 | 8047.6 | 8107.8 | 8189.2 | 8240.4 | 8308.4 |
| 52.5° | 3944.1 | 3982.0 | 4309.7 | 5009.8 | 5850.3 | 7054.3 | 8350.8 | 8474.5 | 8586.0 | 8690.8 | 8772.2 |
| 55° | 3716.7 | 3754.6 | 4042.2 | 4677.6 | 5488.0 | 6639.6 | 8489.0 | 8669.6 | 8843.5 | 9020.8 | 9183.5 |
| 57.5° | 3630.8 | 3671.0 | 3885.0 | 4420.1 | 5191.5 | 6228.3 | 8557.0 | 8853.6 | 9136.7 | 9437.7 | 9749.8 |
| 60° | 3853.8 | 3889.5 | 4052.2 | 4426.8 | 4965.2 | 5816.9 | 8419.9 | 8885.9 | 9373.0 | 9869.1 | 10348.5 |
| 62.5° | 3785.8 | 3804.7 | 4007.6 | 4588.4 | 5253.9 | 5411.1 | 7825.7 | 8441.1 | 9149.0 | 9875.8 | 10610.4 |
| 65° | 3266.3 | 3303.1 | 3455.8 | 3966.4 | 5092.3 | 5356.5 | 6920.5 | 7539.2 | 8374.2 | 9233.7 | 10218.0 |
| 67.5° | 2343.3 | 2292.0 | 2410.1 | 2857.2 | 3950.8 | 5347.6 | 5901.6 | 6359.8 | 7014.2 | 7673.0 | 8480.1 |
| 70° | 1064.6 | 1040.1 | 1132.6 | 1486.0 | 2383.4 | 4226.1 | 4989.7 | 5144.7 | 5387.7 | 5831.4 | 6376.5 |
| 72.5° | 420.3 | 419.2 | 479.4 | 614.2 | 1127.0 | 2720.1 | 4196.0 | 4285.2 | 4371.0 | 4563.9 | 4799.1 |
| 75° | 275.3 | 275.3 | 293.2 | 331.1 | 555.2 | 1313.2 | 3549.4 | 3630.8 | 3762.4 | 3817.0 | 3917.3 |
| 77.5° | 207.3 | 208.5 | 216.3 | 225.2 | 306.6 | 691.2 | 2504.9 | 2793.6 | 3016.6 | 3182.7 | 3304.2 |
| 80° | 147.2 | 153.8 | 168.3 | 173.9 | 199.5 | 393.5 | 1415.8 | 1624.2 | 1876.2 | 2144.8 | 2482.6 |
| 82.5° | 110.4 | 118.2 | 142.7 | 149.4 | 158.3 | 224.1 | 638.8 | 724.6 | 846.1 | 1096.9 | 1577.4 |
| 85° | 51.3 | 56.9 | 98.1 | 107.0 | 114.8 | 129.3 | 324.4 | 362.3 | 411.4 | 450.4 | 525.1 |
| 87.5° | 7.8 | 5.6 | 16.7 | 23.4 | 36.8 | 37.9 | 111.5 | 132.7 | 143.8 | 172.8 | 179.5 |
| 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):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 |
| 2.5° | 1848.3 | 1849.4 | 1850.5 | 1848.3 | 1849.4 | 1849.4 | 1847.2 | 1846.1 | 1846.1 | 1846.1 | 1847.2 |
| 5° | 1884.0 | 1886.2 | 1884.0 | 1885.1 | 1889.5 | 1888.4 | 1886.2 | 1885.1 | 1889.5 | 1890.7 | 1887.3 |
| 7.5° | 1947.5 | 1948.6 | 1944.2 | 1949.7 | 1952.0 | 1953.1 | 1953.1 | 1955.3 | 1955.3 | 1958.7 | 1955.3 |
| 10° | 2028.9 | 2028.9 | 2036.7 | 2035.6 | 2036.7 | 2038.9 | 2040.0 | 2044.5 | 2047.8 | 2047.8 | 2050.1 |
| 12.5° | 2122.5 | 2123.6 | 2131.5 | 2132.6 | 2137.0 | 2138.1 | 2144.8 | 2140.4 | 2151.5 | 2151.5 | 2154.9 |
| 15° | 2219.5 | 2227.3 | 2228.4 | 2239.6 | 2241.8 | 2242.9 | 2251.8 | 2251.8 | 2259.7 | 2260.8 | 2263.0 |
| 17.5° | 2315.4 | 2322.1 | 2326.5 | 2335.5 | 2343.3 | 2346.6 | 2349.9 | 2356.6 | 2362.2 | 2364.4 | 2370.0 |
| 20° | 2397.9 | 2404.6 | 2409.0 | 2418.0 | 2424.6 | 2430.2 | 2433.6 | 2441.4 | 2446.9 | 2449.2 | 2457.0 |
| 22.5° | 2467.0 | 2471.5 | 2479.3 | 2491.5 | 2493.8 | 2500.4 | 2510.5 | 2516.1 | 2518.3 | 2525.0 | 2533.9 |
| 25° | 2540.6 | 2547.3 | 2551.7 | 2562.9 | 2571.8 | 2582.9 | 2591.9 | 2600.8 | 2603.0 | 2611.9 | 2619.7 |
| 27.5° | 2638.7 | 2645.4 | 2646.5 | 2668.8 | 2677.7 | 2693.3 | 2703.3 | 2716.7 | 2723.4 | 2731.2 | 2746.8 |
| 30° | 2783.6 | 2799.2 | 2805.9 | 2831.5 | 2836.0 | 2853.8 | 2871.7 | 2876.1 | 2886.2 | 2887.3 | 2912.9 |
| 32.5° | 3005.4 | 3027.7 | 3036.7 | 3063.4 | 3070.1 | 3086.8 | 3096.9 | 3120.3 | 3121.4 | 3132.5 | 3138.1 |
| 35° | 3368.9 | 3363.3 | 3397.8 | 3404.5 | 3424.6 | 3439.1 | 3449.1 | 3449.1 | 3470.3 | 3471.4 | 3478.1 |
| 37.5° | 3864.9 | 3853.8 | 3862.7 | 3822.6 | 3832.6 | 3814.8 | 3811.4 | 3815.9 | 3807.0 | 3809.2 | 3808.1 |
| 40° | 4658.7 | 4608.5 | 4556.1 | 4432.4 | 4405.6 | 4354.3 | 4314.2 | 4281.9 | 4250.6 | 4217.2 | 4194.9 |
| 42.5° | 5654.1 | 5581.7 | 5503.7 | 5305.2 | 5212.7 | 5113.5 | 5016.5 | 4960.8 | 4849.3 | 4781.3 | 4744.5 |
| 45° | 6697.6 | 6612.9 | 6503.6 | 6338.6 | 6207.1 | 6101.2 | 5923.9 | 5840.3 | 5667.5 | 5581.7 | 5465.8 |
| 47.5° | 7552.6 | 7553.7 | 7465.7 | 7298.4 | 7158.0 | 7087.8 | 6977.4 | 6815.7 | 6619.5 | 6509.2 | 6302.9 |
| 50° | 8300.6 | 8299.5 | 8293.9 | 8193.6 | 8095.5 | 8018.6 | 7921.6 | 7775.6 | 7615.0 | 7490.2 | 7253.9 |
| 52.5° | 8853.6 | 8927.1 | 8958.3 | 8957.2 | 8945.0 | 8909.3 | 8835.7 | 8709.8 | 8547.0 | 8476.8 | 8288.4 |
| 55° | 9310.6 | 9471.1 | 9554.8 | 9737.6 | 9754.3 | 9813.4 | 9748.7 | 9749.8 | 9654.0 | 9660.7 | 9600.5 |
| 57.5° | 10002.9 | 10296.1 | 10464.4 | 10869.1 | 11072.0 | 11317.2 | 11273.7 | 11478.9 | 11553.5 | 11648.3 | 11774.3 |
| 60° | 10788.8 | 11336.2 | 11735.3 | 12540.1 | 12867.9 | 13264.7 | 13483.2 | 13716.2 | 13885.7 | 14059.6 | 14187.8 |
| 62.5° | 11350.7 | 12069.7 | 12725.2 | 13872.3 | 14298.1 | 14716.2 | 14991.5 | 15273.6 | 15464.2 | 15589.0 | 15681.6 |
| 65° | 11121.0 | 11915.9 | 12690.6 | 13893.5 | 14357.2 | 14660.4 | 14988.2 | 15150.9 | 15341.6 | 15445.2 | 15577.9 |
| 67.5° | 9450.0 | 10247.0 | 11077.5 | 12496.6 | 12981.6 | 13400.7 | 13656.0 | 13866.7 | 14020.5 | 14152.1 | 14304.8 |
| 70° | 7027.6 | 7899.3 | 8757.7 | 10313.9 | 10925.9 | 11531.3 | 11832.2 | 12093.1 | 12253.6 | 12386.3 | 12554.6 |
| 72.5° | 5057.7 | 5604.0 | 6140.2 | 7882.6 | 8494.6 | 9277.2 | 9589.3 | 9879.2 | 10087.6 | 10080.9 | 10259.3 |
| 75° | 4026.6 | 4248.4 | 4487.0 | 5386.6 | 5825.8 | 6485.8 | 6660.8 | 6823.5 | 6725.4 | 6537.1 | 6525.9 |
| 77.5° | 3352.1 | 3443.5 | 3523.8 | 3805.8 | 3870.5 | 4027.7 | 3940.7 | 3850.4 | 3559.5 | 3314.2 | 3184.9 |
| 80° | 2721.2 | 2901.8 | 3019.9 | 3220.6 | 3303.1 | 3349.9 | 3362.2 | 3331.0 | 3223.9 | 3075.7 | 2839.3 |
| 82.5° | 2023.3 | 2366.7 | 2600.8 | 2995.4 | 3140.3 | 3170.4 | 3228.4 | 3192.7 | 3122.5 | 3002.1 | 2832.6 |
| 85° | 593.1 | 671.1 | 769.2 | 1043.4 | 1222.9 | 1375.6 | 1531.7 | 1608.6 | 1656.6 | 1589.7 | 1414.7 |
| 87.5° | 208.5 | 235.2 | 263.1 | 362.3 | 385.7 | 466.0 | 457.1 | 539.6 | 542.9 | 566.3 | 541.8 |
| 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):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 |
| 2.5° | 1846.1 | 1846.1 | 1846.1 | 1847.2 | 1847.2 | 1847.2 | 1845.0 | 1843.8 | 1845.0 | 1847.2 | 1847.2 |
| 5° | 1889.5 | 1890.7 | 1892.9 | 1888.4 | 1889.5 | 1892.9 | 1890.7 | 1889.5 | 1890.7 | 1892.9 | 1890.7 |
| 7.5° | 1959.8 | 1960.9 | 1958.7 | 1963.1 | 1963.1 | 1965.4 | 1968.7 | 1965.4 | 1966.5 | 1967.6 | 1968.7 |
| 10° | 2051.2 | 2052.3 | 2054.5 | 2057.9 | 2059.0 | 2061.2 | 2063.5 | 2066.8 | 2066.8 | 2064.6 | 2070.1 |
| 12.5° | 2160.4 | 2159.3 | 2161.6 | 2166.0 | 2168.2 | 2171.6 | 2178.3 | 2178.3 | 2182.7 | 2181.6 | 2187.2 |
| 15° | 2267.5 | 2273.0 | 2274.1 | 2281.9 | 2285.3 | 2290.9 | 2298.7 | 2303.1 | 2303.1 | 2309.8 | 2312.0 |
| 17.5° | 2374.5 | 2378.9 | 2383.4 | 2390.1 | 2394.5 | 2397.9 | 2406.8 | 2412.4 | 2411.3 | 2423.5 | 2423.5 |
| 20° | 2457.0 | 2465.9 | 2471.5 | 2475.9 | 2483.7 | 2489.3 | 2496.0 | 2502.7 | 2507.1 | 2514.9 | 2517.2 |
| 22.5° | 2537.2 | 2542.8 | 2550.6 | 2556.2 | 2565.1 | 2571.8 | 2579.6 | 2585.2 | 2593.0 | 2603.0 | 2606.3 |
| 25° | 2626.4 | 2635.3 | 2644.3 | 2652.1 | 2658.7 | 2666.5 | 2679.9 | 2692.2 | 2703.3 | 2712.3 | 2715.6 |
| 27.5° | 2750.2 | 2760.2 | 2773.6 | 2779.1 | 2789.2 | 2795.9 | 2815.9 | 2831.5 | 2837.1 | 2852.7 | 2857.2 |
| 30° | 2917.4 | 2928.5 | 2941.9 | 2948.6 | 2966.4 | 2975.3 | 2996.5 | 3013.2 | 3018.8 | 3037.8 | 3041.1 |
| 32.5° | 3159.3 | 3166.0 | 3192.7 | 3191.6 | 3216.1 | 3241.8 | 3254.0 | 3267.4 | 3291.9 | 3302.0 | 3305.3 |
| 35° | 3494.8 | 3510.4 | 3529.4 | 3528.3 | 3559.5 | 3574.0 | 3598.5 | 3613.0 | 3630.8 | 3629.7 | 3648.7 |
| 37.5° | 3819.2 | 3824.8 | 3831.5 | 3846.0 | 3868.3 | 3888.3 | 3897.3 | 3911.8 | 3925.1 | 3945.2 | 3969.7 |
| 40° | 4172.6 | 4186.0 | 4187.1 | 4194.9 | 4206.1 | 4231.7 | 4248.4 | 4264.0 | 4309.7 | 4338.7 | 4353.2 |
| 42.5° | 4702.1 | 4698.8 | 4676.5 | 4691.0 | 4697.7 | 4736.7 | 4748.9 | 4796.9 | 4848.2 | 4909.5 | 4926.2 |
| 45° | 5383.3 | 5338.7 | 5325.3 | 5319.7 | 5355.4 | 5375.5 | 5425.6 | 5514.8 | 5568.3 | 5626.3 | 5654.1 |
| 47.5° | 6221.6 | 6082.2 | 6016.5 | 6002.0 | 6038.7 | 6124.6 | 6141.3 | 6229.4 | 6299.6 | 6342.0 | 6369.8 |
| 50° | 7061.0 | 6951.7 | 6813.5 | 6766.7 | 6756.7 | 6835.8 | 6854.8 | 6928.3 | 6999.7 | 7011.9 | 6997.5 |
| 52.5° | 8115.6 | 7937.2 | 7708.7 | 7626.2 | 7560.4 | 7566.0 | 7581.6 | 7612.8 | 7658.5 | 7639.6 | 7600.5 |
| 55° | 9464.5 | 9261.6 | 9149.0 | 8992.9 | 8893.7 | 8875.9 | 8807.9 | 8714.2 | 8710.9 | 8723.1 | 8606.1 |
| 57.5° | 11710.7 | 11626.0 | 11673.9 | 11657.2 | 11559.1 | 11618.2 | 11311.6 | 11224.7 | 11155.6 | 11035.2 | 10927.0 |
| 60° | 14301.5 | 14388.4 | 14487.6 | 14716.2 | 14706.1 | 14935.8 | 14722.9 | 14669.3 | 14604.7 | 14233.5 | 14051.8 |
| 62.5° | 15843.2 | 15877.8 | 16023.8 | 16236.7 | 16446.3 | 16665.9 | 16765.1 | 16799.7 | 16664.8 | 16361.6 | 15982.6 |
| 65° | 15574.5 | 15727.3 | 15868.8 | 16052.8 | 16267.9 | 16487.6 | 16697.1 | 16819.8 | 16788.5 | 16587.9 | 16171.0 |
| 67.5° | 14353.9 | 14514.4 | 14721.7 | 14914.6 | 15146.5 | 15337.1 | 15566.7 | 15791.9 | 15798.6 | 15698.3 | 15408.4 |
| 70° | 12572.5 | 12758.6 | 12972.7 | 13080.8 | 13331.6 | 13504.4 | 13695.0 | 13918.0 | 13990.4 | 14002.7 | 13664.9 |
| 72.5° | 10221.4 | 10299.4 | 10404.2 | 10347.4 | 10397.5 | 10507.9 | 10456.6 | 10474.4 | 10199.1 | 10250.4 | 9833.4 |
| 75° | 6224.9 | 6153.6 | 5837.0 | 5548.2 | 5196.0 | 4925.1 | 4989.7 | 4472.5 | 3963.0 | 3937.4 | 3569.5 |
| 77.5° | 3157.0 | 3043.3 | 2847.1 | 2643.1 | 2344.4 | 2002.1 | 1716.8 | 1409.1 | 1149.3 | 1001.1 | 859.5 |
| 80° | 2688.8 | 2608.6 | 2500.4 | 2352.2 | 2134.8 | 1881.7 | 1584.1 | 1350.0 | 1132.6 | 906.3 | 725.7 |
| 82.5° | 2572.9 | 2327.7 | 2170.5 | 2046.7 | 1811.5 | 1577.4 | 1414.7 | 1254.1 | 1100.3 | 960.9 | 761.4 |
| 85° | 1276.4 | 1129.3 | 955.4 | 847.2 | 652.1 | 510.6 | 478.2 | 393.5 | 366.8 | 283.2 | 238.6 |
| 87.5° | 429.2 | 351.2 | 262.0 | 220.7 | 176.1 | 143.8 | 141.6 | 126.0 | 124.9 | 113.7 | 104.8 |
| 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: P158153

CATALOG NUMBER: VTS-F08-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 |
| 2.5° | 1846.1 | 1848.3 | 1848.3 | 1846.1 | 1847.2 | 1845.0 | 1846.1 | 1847.2 | 1843.8 | 1842.7 | 1839.4 |
| 5° | 1891.8 | 1890.7 | 1890.7 | 1891.8 | 1895.1 | 1896.2 | 1890.7 | 1892.9 | 1894.0 | 1888.4 | 1876.2 |
| 7.5° | 1967.6 | 1967.6 | 1970.9 | 1969.8 | 1976.5 | 1974.3 | 1973.2 | 1973.2 | 1973.2 | 1962.0 | 1941.9 |
| 10° | 2070.1 | 2070.1 | 2073.5 | 2077.9 | 2079.1 | 2076.8 | 2076.8 | 2077.9 | 2083.5 | 2061.2 | 2030.0 |
| 12.5° | 2185.0 | 2190.5 | 2189.4 | 2189.4 | 2202.8 | 2199.5 | 2195.0 | 2199.5 | 2205.0 | 2173.8 | 2129.2 |
| 15° | 2313.2 | 2316.5 | 2318.7 | 2326.5 | 2324.3 | 2332.1 | 2334.3 | 2332.1 | 2337.7 | 2297.6 | 2222.9 |
| 17.5° | 2429.1 | 2435.8 | 2438.0 | 2446.9 | 2446.9 | 2448.1 | 2457.0 | 2453.6 | 2454.7 | 2409.0 | 2302.0 |
| 20° | 2525.0 | 2531.7 | 2535.0 | 2545.0 | 2547.3 | 2551.7 | 2555.1 | 2557.3 | 2562.9 | 2508.2 | 2366.7 |
| 22.5° | 2620.8 | 2626.4 | 2632.0 | 2638.7 | 2647.6 | 2653.2 | 2657.6 | 2659.9 | 2669.9 | 2606.3 | 2428.0 |
| 25° | 2727.9 | 2740.1 | 2745.7 | 2756.8 | 2765.8 | 2774.7 | 2781.4 | 2782.5 | 2799.2 | 2720.1 | 2478.1 |
| 27.5° | 2870.6 | 2887.3 | 2896.2 | 2914.0 | 2922.9 | 2931.9 | 2929.6 | 2943.0 | 2966.4 | 2850.5 | 2517.2 |
| 30° | 3057.8 | 3079.0 | 3084.6 | 3102.4 | 3116.9 | 3125.8 | 3135.9 | 3147.0 | 3162.6 | 2995.4 | 2536.1 |
| 32.5° | 3318.7 | 3351.0 | 3358.8 | 3368.9 | 3390.0 | 3405.6 | 3412.3 | 3430.2 | 3434.6 | 3132.5 | 2530.5 |
| 35° | 3676.5 | 3662.0 | 3699.9 | 3708.9 | 3739.0 | 3751.2 | 3759.0 | 3782.4 | 3764.6 | 3281.9 | 2493.8 |
| 37.5° | 3999.8 | 3995.4 | 4032.1 | 4052.2 | 4091.2 | 4082.3 | 4101.3 | 4116.9 | 4053.3 | 3387.8 | 2425.8 |
| 40° | 4394.5 | 4388.9 | 4440.2 | 4446.8 | 4507.0 | 4493.7 | 4501.5 | 4513.7 | 4372.2 | 3461.4 | 2302.0 |
| 42.5° | 4945.2 | 4947.4 | 5002.0 | 5008.7 | 5016.5 | 5041.0 | 5000.9 | 5003.1 | 4711.0 | 3481.4 | 2098.0 |
| 45° | 5670.9 | 5709.9 | 5676.4 | 5677.6 | 5675.3 | 5628.5 | 5578.3 | 5519.3 | 5063.3 | 3412.3 | 1834.9 |
| 47.5° | 6374.3 | 6347.5 | 6305.2 | 6266.2 | 6233.8 | 6160.3 | 6086.7 | 5986.4 | 5367.7 | 3248.5 | 1541.7 |
| 50° | 6976.3 | 6916.1 | 6878.2 | 6770.0 | 6693.1 | 6597.2 | 6494.7 | 6379.9 | 5617.4 | 3012.1 | 1267.5 |
| 52.5° | 7535.9 | 7473.5 | 7331.9 | 7219.3 | 7108.9 | 6981.8 | 6862.6 | 6727.7 | 5838.1 | 2742.4 | 1057.9 |
| 55° | 8465.6 | 8411.0 | 8269.4 | 8063.2 | 7927.2 | 7752.2 | 7595.0 | 7412.2 | 6285.1 | 2523.9 | 919.7 |
| 57.5° | 10629.4 | 10582.6 | 10284.9 | 10154.5 | 9975.0 | 9535.8 | 9471.1 | 9185.8 | 7483.5 | 2498.2 | 838.3 |
| 60° | 13676.1 | 13475.4 | 13227.9 | 12871.2 | 12450.9 | 12306.0 | 11982.7 | 11602.6 | 9412.1 | 2568.4 | 772.5 |
| 62.5° | 15546.7 | 15089.6 | 14726.2 | 14314.8 | 13928.0 | 13595.8 | 13242.4 | 12866.8 | 10398.6 | 2475.9 | 691.2 |
| 65° | 15687.1 | 15149.8 | 14669.3 | 14186.7 | 13751.9 | 13338.3 | 12995.0 | 12619.3 | 10077.6 | 2128.1 | 585.3 |
| 67.5° | 14913.5 | 14347.2 | 13823.2 | 13275.9 | 12836.7 | 12463.2 | 12026.2 | 11665.0 | 9172.4 | 1656.6 | 487.2 |
| 70° | 13318.2 | 12821.0 | 12369.6 | 11779.8 | 11415.3 | 10960.5 | 10682.9 | 10231.4 | 7995.2 | 1129.3 | 402.4 |
| 72.5° | 9592.7 | 9218.1 | 9070.9 | 8659.6 | 8182.5 | 7914.9 | 7786.7 | 7348.6 | 5908.3 | 701.2 | 328.9 |
| 75° | 3240.7 | 3333.2 | 3121.4 | 2797.0 | 2955.3 | 2711.1 | 2810.4 | 2601.9 | 2499.3 | 402.4 | 276.5 |
| 77.5° | 719.0 | 675.6 | 624.3 | 579.7 | 576.3 | 541.8 | 574.1 | 542.9 | 580.8 | 256.4 | 244.1 |
| 80° | 567.4 | 448.1 | 381.3 | 347.8 | 330.0 | 319.9 | 312.1 | 303.2 | 276.5 | 218.5 | 225.2 |
| 82.5° | 613.1 | 462.6 | 338.9 | 270.9 | 231.9 | 217.4 | 214.0 | 205.1 | 202.9 | 211.8 | 227.4 |
| 85° | 196.2 | 163.9 | 139.3 | 131.5 | 121.5 | 115.9 | 113.7 | 110.4 | 133.8 | 230.8 | 218.5 |
| 87.5° | 102.6 | 90.3 | 80.3 | 76.9 | 66.9 | 62.4 | 61.3 | 62.4 | 93.6 | 230.8 | 158.3 |
| 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: P158153

CATALOG NUMBER: VTS-F08-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 | 1834.9 |
| 2.5° | 1836.0 | 1834.9 | 1832.7 | 1831.6 | 1830.5 | 1824.9 | 1829.3 |
| 5° | 1870.6 | 1859.4 | 1849.4 | 1837.2 | 1830.5 | 1824.9 | 1824.9 |
| 7.5° | 1923.0 | 1891.8 | 1866.1 | 1838.3 | 1819.3 | 1804.8 | 1802.6 |
| 10° | 1988.8 | 1928.6 | 1869.5 | 1819.3 | 1783.6 | 1756.9 | 1753.5 |
| 12.5° | 2051.2 | 1959.8 | 1866.1 | 1783.6 | 1727.9 | 1690.0 | 1687.8 |
| 15° | 2109.2 | 1976.5 | 1840.5 | 1719.0 | 1635.4 | 1585.2 | 1579.6 |
| 17.5° | 2154.9 | 1966.5 | 1782.5 | 1628.7 | 1515.0 | 1455.9 | 1452.6 |
| 20° | 2164.9 | 1926.3 | 1700.0 | 1517.2 | 1396.8 | 1334.4 | 1319.9 |
| 22.5° | 2156.0 | 1853.9 | 1597.5 | 1394.6 | 1256.4 | 1193.9 | 1186.1 |
| 25° | 2129.2 | 1765.8 | 1470.4 | 1251.9 | 1123.7 | 1060.2 | 1044.5 |
| 27.5° | 2081.3 | 1662.1 | 1333.3 | 1113.7 | 986.6 | 925.3 | 909.7 |
| 30° | 2009.9 | 1537.3 | 1187.2 | 984.3 | 852.8 | 803.8 | 788.1 |
| 32.5° | 1910.7 | 1385.7 | 1043.4 | 851.7 | 742.4 | 703.4 | 696.7 |
| 35° | 1773.6 | 1211.8 | 892.9 | 742.4 | 662.2 | 638.8 | 635.4 |
| 37.5° | 1598.6 | 1037.9 | 767.0 | 664.4 | 606.4 | 591.9 | 589.7 |
| 40° | 1370.1 | 859.5 | 677.8 | 608.7 | 566.3 | 554.0 | 551.8 |
| 42.5° | 1134.8 | 725.7 | 612.0 | 564.1 | 529.5 | 518.4 | 515.0 |
| 45° | 928.6 | 635.4 | 563.0 | 527.3 | 495.0 | 482.7 | 481.6 |
| 47.5° | 774.8 | 583.0 | 522.8 | 493.8 | 461.5 | 447.0 | 448.1 |
| 50° | 662.2 | 535.1 | 489.4 | 464.9 | 428.1 | 414.7 | 415.8 |
| 52.5° | 585.3 | 487.2 | 458.2 | 430.3 | 399.1 | 385.7 | 385.7 |
| 55° | 525.1 | 448.1 | 428.1 | 398.0 | 373.5 | 361.2 | 360.1 |
| 57.5° | 476.0 | 416.9 | 399.1 | 374.6 | 350.0 | 335.5 | 335.5 |
| 60° | 445.9 | 394.6 | 380.1 | 357.8 | 328.9 | 313.3 | 312.1 |
| 62.5° | 428.1 | 387.9 | 375.7 | 344.5 | 312.1 | 296.5 | 293.2 |
| 65° | 414.7 | 403.5 | 387.9 | 336.7 | 298.8 | 282.0 | 278.7 |
| 67.5° | 415.8 | 440.3 | 418.0 | 341.1 | 294.3 | 269.8 | 265.3 |
| 70° | 422.5 | 469.3 | 439.2 | 351.2 | 313.3 | 264.2 | 254.2 |
| 72.5° | 389.1 | 424.7 | 395.7 | 334.4 | 305.4 | 254.2 | 241.9 |
| 75° | 324.4 | 309.9 | 284.3 | 272.0 | 274.2 | 230.8 | 226.3 |
| 77.5° | 263.1 | 230.8 | 206.2 | 216.3 | 230.8 | 197.3 | 192.9 |
| 80° | 228.5 | 187.3 | 175.0 | 191.7 | 209.6 | 168.3 | 157.2 |
| 82.5° | 214.0 | 158.3 | 150.5 | 199.5 | 219.6 | 144.9 | 127.1 |
| 85° | 188.4 | 129.3 | 118.2 | 235.2 | 219.6 | 109.2 | 101.4 |
| 87.5° | 126.0 | 76.9 | 73.6 | 172.8 | 150.5 | 75.8 | 61.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)