

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: P158142

Luminaire Tested: **VTS-E07-LED-E1-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158142
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-E07-LED-E1-SL2-7060
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (147) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21611.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

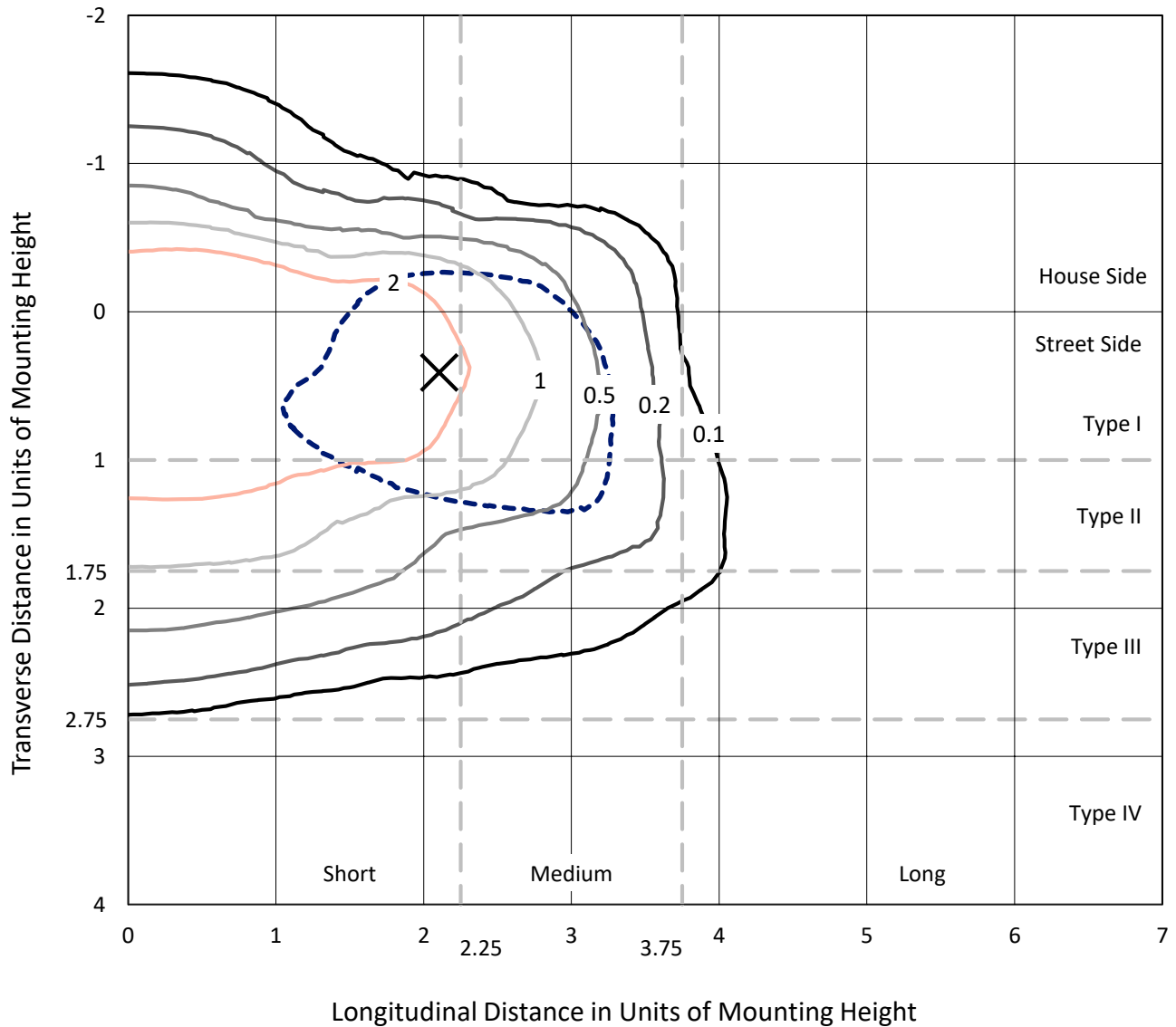
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

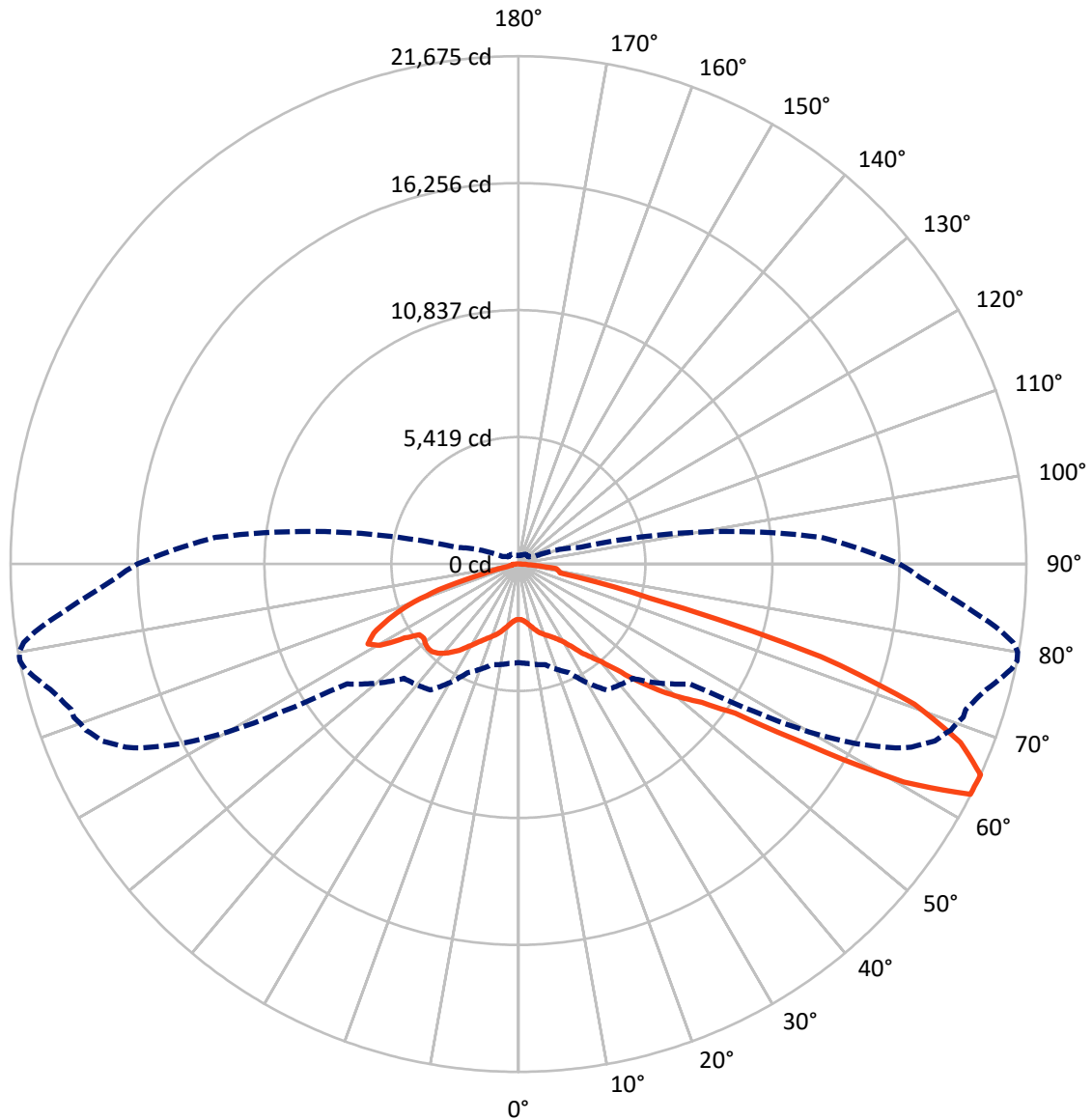


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - Non-Cutoff

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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 | 4965.9 | 0.0 | 4965.9 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 16645.3 | 0.0 | 16645.3 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 21611.2 | 0.0 | 21611.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.9 | 1.1 |
| 10°-20° | 759.8 | 3.5 |
| 20°-30° | 1309.8 | 6.1 |
| 30°-40° | 2145.5 | 9.9 |
| 40°-50° | 3592.9 | 16.6 |
| 50°-60° | 4860.0 | 22.5 |
| 60°-70° | 5985.0 | 27.7 |
| 70°-80° | 2316.8 | 10.7 |
| 80°-90° | 407.4 | 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° | 21611.2 | 100.0 |
| 0°-180° | 21611.2 | 100.0 |



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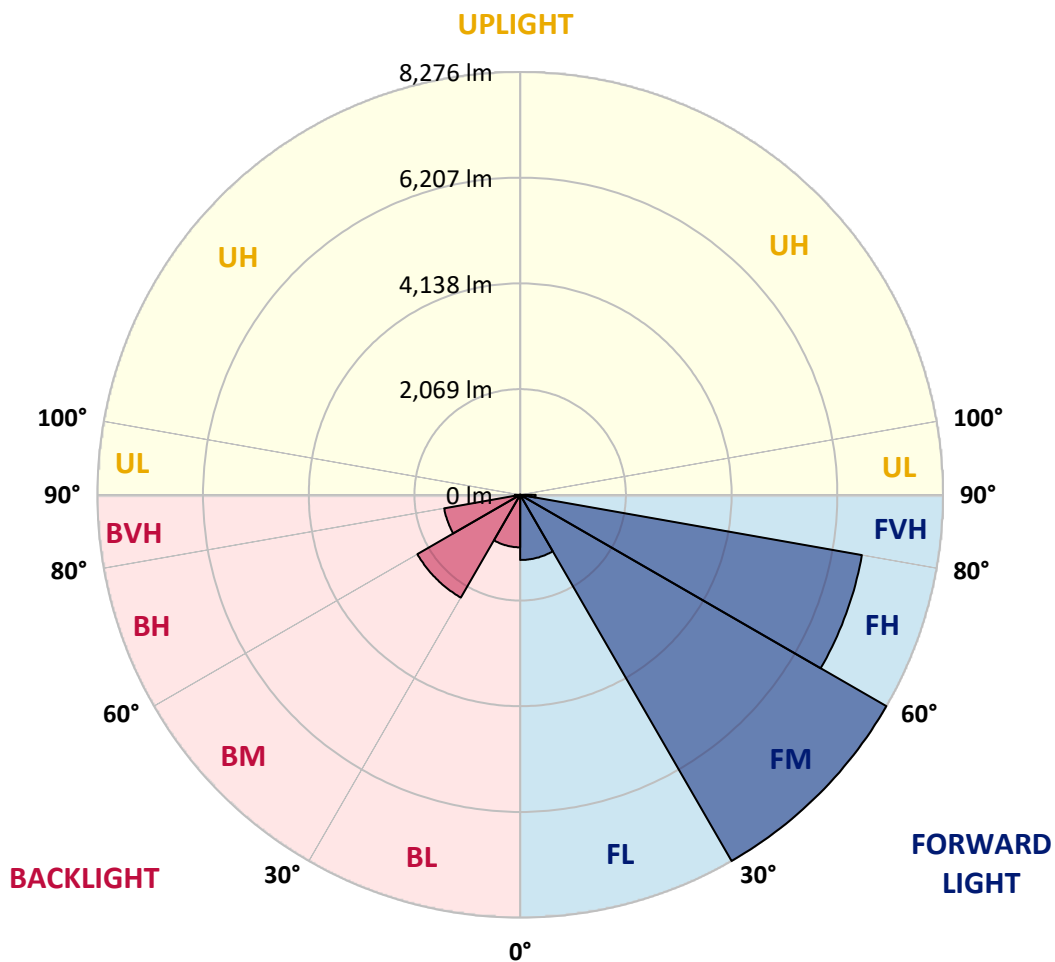
CATALOG NUMBER: VTS-E07-LED-E1-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1275.9 | 5.9 | | | |
| FM (30°-60°) | 8276.1 | 38.3 | | | |
| FH (60°-80°) | 6791.0 | 31.4 | | | G3/7500 |
| FVH (80°-90°) | 302.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1027.7 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2322.3 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1510.8 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 105.1 | 0.5 | | | G2/225 |
| 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° | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 |
| 2.5° | 2368.9 | 2361.7 | 2368.9 | 2374.6 | 2378.9 | 2384.7 | 2383.2 | 2381.8 | 2380.4 | 2381.8 | 2381.8 |
| 5° | 2389.0 | 2387.5 | 2394.7 | 2400.5 | 2410.5 | 2417.7 | 2426.3 | 2426.3 | 2426.3 | 2424.9 | 2427.8 |
| 7.5° | 2453.6 | 2452.2 | 2459.4 | 2465.1 | 2473.7 | 2488.1 | 2499.6 | 2505.3 | 2503.9 | 2503.9 | 2503.9 |
| 10° | 2559.9 | 2554.2 | 2554.2 | 2554.2 | 2565.7 | 2575.7 | 2601.6 | 2604.5 | 2610.2 | 2607.3 | 2608.8 |
| 12.5° | 2663.4 | 2664.8 | 2660.5 | 2656.2 | 2657.6 | 2677.7 | 2715.1 | 2722.3 | 2723.7 | 2728.0 | 2730.9 |
| 15° | 2756.7 | 2755.3 | 2745.2 | 2735.2 | 2748.1 | 2782.6 | 2831.4 | 2844.4 | 2844.4 | 2853.0 | 2858.7 |
| 17.5° | 2842.9 | 2840.1 | 2821.4 | 2804.1 | 2817.1 | 2876.0 | 2952.1 | 2960.7 | 2973.7 | 2978.0 | 2983.7 |
| 20° | 2944.9 | 2939.2 | 2917.6 | 2871.7 | 2871.7 | 2952.1 | 3052.7 | 3061.3 | 3072.8 | 3075.6 | 3085.7 |
| 22.5° | 3087.1 | 3072.8 | 3026.8 | 2943.5 | 2920.5 | 3013.9 | 3137.4 | 3141.7 | 3150.3 | 3161.8 | 3170.5 |
| 25° | 3248.0 | 3250.9 | 3176.2 | 3031.1 | 2980.8 | 3078.5 | 3219.3 | 3226.5 | 3242.3 | 3250.9 | 3261.0 |
| 27.5° | 3414.7 | 3419.0 | 3335.7 | 3154.7 | 3069.9 | 3167.6 | 3329.9 | 3338.5 | 3357.2 | 3367.3 | 3383.1 |
| 30° | 3604.3 | 3610.0 | 3529.6 | 3347.2 | 3217.9 | 3298.3 | 3493.7 | 3516.7 | 3532.5 | 3545.4 | 3571.3 |
| 32.5° | 4059.7 | 4025.2 | 3969.2 | 3775.2 | 3571.3 | 3565.5 | 3758.0 | 3783.9 | 3805.4 | 3832.7 | 3857.1 |
| 35° | 4632.9 | 4654.4 | 4683.1 | 4552.4 | 4372.9 | 4242.1 | 4257.9 | 4243.6 | 4263.7 | 4303.9 | 4328.3 |
| 37.5° | 5086.8 | 5134.2 | 5259.2 | 5344.0 | 5336.8 | 5310.9 | 5069.6 | 5069.6 | 5082.5 | 5061.0 | 5058.1 |
| 40° | 5443.1 | 5473.2 | 5729.0 | 6057.9 | 6335.2 | 6471.6 | 6280.6 | 6253.3 | 6267.7 | 6157.0 | 6161.4 |
| 42.5° | 5627.0 | 5671.5 | 6039.2 | 6616.7 | 7166.9 | 7605.1 | 7546.2 | 7527.5 | 7484.4 | 7457.1 | 7439.9 |
| 45° | 5720.3 | 5773.5 | 6211.6 | 7004.6 | 7806.2 | 8482.8 | 8787.4 | 8784.5 | 8745.7 | 8714.1 | 8699.7 |
| 47.5° | 5672.9 | 5718.9 | 6185.8 | 7122.4 | 8142.4 | 9048.8 | 9722.6 | 9764.2 | 9752.7 | 9798.7 | 9817.4 |
| 50° | 5362.6 | 5421.5 | 5889.8 | 6868.1 | 8001.6 | 9271.5 | 10370.4 | 10448.0 | 10552.9 | 10619.0 | 10706.6 |
| 52.5° | 5082.5 | 5131.3 | 5553.7 | 6455.8 | 7539.0 | 9090.5 | 10761.2 | 10920.6 | 11064.3 | 11199.3 | 11304.2 |
| 55° | 4789.4 | 4838.3 | 5208.9 | 6027.8 | 7072.1 | 8556.1 | 10939.3 | 11172.0 | 11396.1 | 11624.5 | 11834.3 |
| 57.5° | 4678.8 | 4730.6 | 5006.4 | 5695.9 | 6690.0 | 8026.0 | 11026.9 | 11409.1 | 11773.9 | 12161.8 | 12564.0 |
| 60° | 4966.1 | 5012.1 | 5221.9 | 5704.5 | 6398.4 | 7495.9 | 10850.2 | 11450.7 | 12078.5 | 12717.8 | 13335.5 |
| 62.5° | 4878.5 | 4902.9 | 5164.4 | 5912.8 | 6770.4 | 6973.0 | 10084.6 | 10877.5 | 11789.7 | 12726.4 | 13673.1 |
| 65° | 4209.1 | 4256.5 | 4453.3 | 5111.2 | 6562.1 | 6902.6 | 8918.1 | 9715.4 | 10791.3 | 11898.9 | 13167.4 |
| 67.5° | 3019.6 | 2953.5 | 3105.8 | 3681.9 | 5091.1 | 6891.1 | 7605.1 | 8195.5 | 9038.8 | 9887.8 | 10927.8 |
| 70° | 1371.9 | 1340.3 | 1459.5 | 1914.9 | 3071.3 | 5446.0 | 6430.0 | 6629.7 | 6942.8 | 7514.6 | 8217.1 |
| 72.5° | 541.6 | 540.1 | 617.7 | 791.5 | 1452.3 | 3505.2 | 5407.2 | 5522.1 | 5632.7 | 5881.2 | 6184.3 |
| 75° | 354.8 | 354.8 | 377.8 | 426.7 | 715.4 | 1692.3 | 4574.0 | 4678.8 | 4848.3 | 4918.7 | 5048.0 |
| 77.5° | 267.2 | 268.6 | 278.7 | 290.2 | 395.1 | 890.7 | 3227.9 | 3600.0 | 3887.3 | 4101.3 | 4257.9 |
| 80° | 189.6 | 198.2 | 216.9 | 224.1 | 257.1 | 507.1 | 1824.4 | 2093.0 | 2417.7 | 2763.9 | 3199.2 |
| 82.5° | 142.2 | 152.3 | 183.9 | 192.5 | 204.0 | 288.7 | 823.1 | 933.8 | 1090.3 | 1413.6 | 2032.7 |
| 85° | 66.1 | 73.3 | 126.4 | 137.9 | 148.0 | 166.6 | 418.0 | 466.9 | 530.1 | 580.4 | 676.6 |
| 87.5° | 10.1 | 7.2 | 21.5 | 30.2 | 47.4 | 48.8 | 143.7 | 170.9 | 185.3 | 222.7 | 231.3 |
| 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° | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 |
| 2.5° | 2381.8 | 2383.2 | 2384.7 | 2381.8 | 2383.2 | 2383.2 | 2380.4 | 2378.9 | 2378.9 | 2378.9 | 2380.4 |
| 5° | 2427.8 | 2430.6 | 2427.8 | 2429.2 | 2434.9 | 2433.5 | 2430.6 | 2429.2 | 2434.9 | 2436.4 | 2432.1 |
| 7.5° | 2509.6 | 2511.1 | 2505.3 | 2512.5 | 2515.4 | 2516.8 | 2516.8 | 2519.7 | 2519.7 | 2524.0 | 2519.7 |
| 10° | 2614.5 | 2614.5 | 2624.6 | 2623.1 | 2624.6 | 2627.4 | 2628.9 | 2634.6 | 2638.9 | 2638.9 | 2641.8 |
| 12.5° | 2735.2 | 2736.6 | 2746.7 | 2748.1 | 2753.9 | 2755.3 | 2763.9 | 2758.2 | 2772.5 | 2772.5 | 2776.8 |
| 15° | 2860.2 | 2870.2 | 2871.7 | 2886.0 | 2888.9 | 2890.3 | 2901.8 | 2901.8 | 2911.9 | 2913.3 | 2916.2 |
| 17.5° | 2983.7 | 2992.3 | 2998.1 | 3009.6 | 3019.6 | 3023.9 | 3028.2 | 3036.9 | 3044.0 | 3046.9 | 3054.1 |
| 20° | 3090.0 | 3098.6 | 3104.4 | 3115.9 | 3124.5 | 3131.7 | 3136.0 | 3146.0 | 3153.2 | 3156.1 | 3166.2 |
| 22.5° | 3179.1 | 3184.8 | 3194.9 | 3210.7 | 3213.6 | 3222.2 | 3235.1 | 3242.3 | 3245.2 | 3253.8 | 3265.3 |
| 25° | 3273.9 | 3282.5 | 3288.3 | 3302.6 | 3314.1 | 3328.5 | 3340.0 | 3351.5 | 3354.3 | 3365.8 | 3375.9 |
| 27.5° | 3400.3 | 3408.9 | 3410.4 | 3439.1 | 3450.6 | 3470.7 | 3483.6 | 3500.9 | 3509.5 | 3519.5 | 3539.7 |
| 30° | 3587.1 | 3607.2 | 3615.8 | 3648.8 | 3654.6 | 3677.6 | 3700.5 | 3706.3 | 3719.2 | 3720.7 | 3753.7 |
| 32.5° | 3872.9 | 3901.7 | 3913.2 | 3947.6 | 3956.3 | 3977.8 | 3990.7 | 4020.9 | 4022.3 | 4036.7 | 4043.9 |
| 35° | 4341.2 | 4334.1 | 4378.6 | 4387.2 | 4413.1 | 4431.7 | 4444.7 | 4444.7 | 4472.0 | 4473.4 | 4482.0 |
| 37.5° | 4980.5 | 4966.1 | 4977.6 | 4925.9 | 4938.9 | 4915.9 | 4911.6 | 4917.3 | 4905.8 | 4908.7 | 4907.2 |
| 40° | 6003.3 | 5938.7 | 5871.2 | 5711.7 | 5677.2 | 5611.2 | 5559.4 | 5517.8 | 5477.6 | 5434.5 | 5405.7 |
| 42.5° | 7286.2 | 7192.8 | 7092.2 | 6836.5 | 6717.3 | 6589.4 | 6464.5 | 6392.6 | 6249.0 | 6161.4 | 6113.9 |
| 45° | 8630.8 | 8521.6 | 8380.8 | 8168.2 | 7998.7 | 7862.2 | 7633.8 | 7526.1 | 7303.4 | 7192.8 | 7043.4 |
| 47.5° | 9732.6 | 9734.0 | 9620.6 | 9405.1 | 9224.1 | 9133.6 | 8991.4 | 8783.1 | 8530.2 | 8388.0 | 8122.2 |
| 50° | 10696.5 | 10695.1 | 10687.9 | 10558.6 | 10432.2 | 10333.1 | 10208.1 | 10019.9 | 9813.1 | 9652.2 | 9347.6 |
| 52.5° | 11409.1 | 11503.9 | 11544.1 | 11542.7 | 11526.9 | 11480.9 | 11386.1 | 11223.7 | 11014.0 | 10923.5 | 10680.7 |
| 55° | 11998.0 | 12204.9 | 12312.6 | 12548.2 | 12569.8 | 12645.9 | 12562.6 | 12564.0 | 12440.5 | 12449.1 | 12371.5 |
| 57.5° | 12890.1 | 13268.0 | 13484.9 | 14006.3 | 14267.8 | 14583.8 | 14527.8 | 14792.1 | 14888.4 | 15010.5 | 15172.8 |
| 60° | 13902.9 | 14608.3 | 15122.5 | 16159.7 | 16582.1 | 17093.5 | 17375.0 | 17675.3 | 17893.6 | 18117.7 | 18282.9 |
| 62.5° | 14626.9 | 15553.5 | 16398.2 | 17876.4 | 18425.2 | 18963.9 | 19318.7 | 19682.1 | 19927.8 | 20088.7 | 20207.9 |
| 65° | 14331.0 | 15355.3 | 16353.7 | 17903.7 | 18501.3 | 18892.0 | 19314.4 | 19524.1 | 19769.8 | 19903.4 | 20074.3 |
| 67.5° | 12177.6 | 13204.7 | 14275.0 | 16103.7 | 16728.6 | 17268.7 | 17597.7 | 17869.2 | 18067.5 | 18237.0 | 18433.8 |
| 70° | 9056.0 | 10179.4 | 11285.5 | 13290.9 | 14079.6 | 14859.6 | 15247.5 | 15583.7 | 15790.5 | 15961.5 | 16178.4 |
| 72.5° | 6517.6 | 7221.5 | 7912.5 | 10157.8 | 10946.5 | 11954.9 | 12357.2 | 12730.7 | 12999.3 | 12990.7 | 13220.5 |
| 75° | 5188.8 | 5474.7 | 5782.1 | 6941.4 | 7507.4 | 8357.8 | 8583.4 | 8793.1 | 8666.7 | 8423.9 | 8409.5 |
| 77.5° | 4319.7 | 4437.5 | 4540.9 | 4904.4 | 4987.7 | 5190.2 | 5078.2 | 4961.8 | 4586.9 | 4270.9 | 4104.2 |
| 80° | 3506.6 | 3739.3 | 3891.6 | 4150.2 | 4256.5 | 4316.8 | 4332.6 | 4292.4 | 4154.5 | 3963.4 | 3658.9 |
| 82.5° | 2607.3 | 3049.8 | 3351.5 | 3860.0 | 4046.8 | 4085.5 | 4160.2 | 4114.3 | 4023.8 | 3868.6 | 3650.3 |
| 85° | 764.2 | 864.8 | 991.2 | 1344.6 | 1575.9 | 1772.7 | 1973.8 | 2072.9 | 2134.7 | 2048.5 | 1823.0 |
| 87.5° | 268.6 | 303.1 | 339.0 | 466.9 | 497.0 | 600.5 | 589.0 | 695.3 | 699.6 | 729.8 | 698.2 |
| 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: VTS-E07-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 |
| 2.5° | 2378.9 | 2378.9 | 2378.9 | 2380.4 | 2380.4 | 2380.4 | 2377.5 | 2376.0 | 2377.5 | 2380.4 | 2380.4 |
| 5° | 2434.9 | 2436.4 | 2439.3 | 2433.5 | 2434.9 | 2439.3 | 2436.4 | 2434.9 | 2436.4 | 2439.3 | 2436.4 |
| 7.5° | 2525.5 | 2526.9 | 2524.0 | 2529.8 | 2529.8 | 2532.6 | 2536.9 | 2532.6 | 2534.1 | 2535.5 | 2536.9 |
| 10° | 2643.2 | 2644.7 | 2647.6 | 2651.9 | 2653.3 | 2656.2 | 2659.0 | 2663.4 | 2663.4 | 2660.5 | 2667.7 |
| 12.5° | 2784.0 | 2782.6 | 2785.5 | 2791.2 | 2794.1 | 2798.4 | 2807.0 | 2807.0 | 2812.8 | 2811.3 | 2818.5 |
| 15° | 2921.9 | 2929.1 | 2930.6 | 2940.6 | 2944.9 | 2952.1 | 2962.2 | 2967.9 | 2967.9 | 2976.5 | 2979.4 |
| 17.5° | 3059.8 | 3065.6 | 3071.3 | 3080.0 | 3085.7 | 3090.0 | 3101.5 | 3108.7 | 3107.3 | 3123.1 | 3123.1 |
| 20° | 3166.2 | 3177.6 | 3184.8 | 3190.6 | 3200.6 | 3207.8 | 3216.4 | 3225.0 | 3230.8 | 3240.9 | 3243.7 |
| 22.5° | 3269.6 | 3276.8 | 3286.8 | 3294.0 | 3305.5 | 3314.1 | 3324.2 | 3331.4 | 3341.4 | 3354.3 | 3358.6 |
| 25° | 3384.5 | 3396.0 | 3407.5 | 3417.5 | 3426.2 | 3436.2 | 3453.5 | 3469.3 | 3483.6 | 3495.1 | 3499.4 |
| 27.5° | 3544.0 | 3556.9 | 3574.1 | 3581.3 | 3594.2 | 3602.9 | 3628.7 | 3648.8 | 3656.0 | 3676.1 | 3681.9 |
| 30° | 3759.4 | 3773.8 | 3791.0 | 3799.7 | 3822.7 | 3834.1 | 3861.4 | 3883.0 | 3890.2 | 3914.6 | 3918.9 |
| 32.5° | 4071.2 | 4079.8 | 4114.3 | 4112.8 | 4144.4 | 4177.5 | 4193.3 | 4210.5 | 4242.1 | 4255.1 | 4259.4 |
| 35° | 4503.6 | 4523.7 | 4548.1 | 4546.7 | 4586.9 | 4605.6 | 4637.2 | 4655.9 | 4678.8 | 4677.4 | 4701.8 |
| 37.5° | 4921.6 | 4928.8 | 4937.4 | 4956.1 | 4984.8 | 5010.7 | 5022.2 | 5040.8 | 5058.1 | 5083.9 | 5115.5 |
| 40° | 5377.0 | 5394.2 | 5395.7 | 5405.7 | 5420.1 | 5453.1 | 5474.7 | 5494.8 | 5553.7 | 5591.0 | 5609.7 |
| 42.5° | 6059.4 | 6055.0 | 6026.3 | 6045.0 | 6053.6 | 6103.9 | 6119.7 | 6181.5 | 6247.5 | 6326.6 | 6348.1 |
| 45° | 6937.1 | 6879.6 | 6862.4 | 6855.2 | 6901.2 | 6927.0 | 6991.7 | 7106.6 | 7175.6 | 7250.3 | 7286.2 |
| 47.5° | 8017.4 | 7837.8 | 7753.0 | 7734.4 | 7781.8 | 7892.4 | 7913.9 | 8027.4 | 8117.9 | 8172.5 | 8208.4 |
| 50° | 9099.1 | 8958.3 | 8780.2 | 8719.8 | 8706.9 | 8808.9 | 8833.3 | 8928.1 | 9020.1 | 9035.9 | 9017.2 |
| 52.5° | 10458.1 | 10228.2 | 9933.7 | 9827.4 | 9742.7 | 9749.8 | 9770.0 | 9810.2 | 9869.1 | 9844.7 | 9794.4 |
| 55° | 12196.3 | 11934.8 | 11789.7 | 11588.6 | 11460.8 | 11437.8 | 11350.2 | 11229.5 | 11225.2 | 11241.0 | 11090.1 |
| 57.5° | 15090.9 | 14981.8 | 15043.5 | 15022.0 | 14895.6 | 14971.7 | 14576.6 | 14464.6 | 14375.5 | 14220.4 | 14081.0 |
| 60° | 18429.5 | 18541.5 | 18669.4 | 18963.9 | 18950.9 | 19246.9 | 18972.5 | 18903.5 | 18820.2 | 18341.8 | 18107.7 |
| 62.5° | 20416.2 | 20460.7 | 20648.9 | 20923.3 | 21193.4 | 21476.4 | 21604.2 | 21648.8 | 21475.0 | 21084.2 | 20595.8 |
| 65° | 20070.0 | 20266.8 | 20449.3 | 20686.3 | 20963.5 | 21246.5 | 21516.6 | 21674.6 | 21634.4 | 21375.8 | 20838.6 |
| 67.5° | 18497.0 | 18703.8 | 18971.0 | 19219.6 | 19518.4 | 19764.0 | 20060.0 | 20350.1 | 20358.8 | 20229.5 | 19856.0 |
| 70° | 16201.4 | 16441.3 | 16717.1 | 16856.4 | 17179.7 | 17402.3 | 17648.0 | 17935.3 | 18028.7 | 18044.5 | 17609.2 |
| 72.5° | 13171.7 | 13272.3 | 13407.3 | 13334.0 | 13398.7 | 13540.9 | 13474.8 | 13497.8 | 13143.0 | 13209.1 | 12671.8 |
| 75° | 8021.7 | 7929.7 | 7521.8 | 7149.7 | 6695.7 | 6346.7 | 6430.0 | 5763.4 | 5106.9 | 5073.9 | 4599.8 |
| 77.5° | 4068.3 | 3921.8 | 3668.9 | 3406.1 | 3021.1 | 2580.0 | 2212.3 | 1815.8 | 1481.1 | 1290.0 | 1107.6 |
| 80° | 3465.0 | 3361.5 | 3222.2 | 3031.1 | 2751.0 | 2424.9 | 2041.3 | 1739.7 | 1459.5 | 1167.9 | 935.2 |
| 82.5° | 3315.6 | 2999.5 | 2797.0 | 2637.5 | 2334.4 | 2032.7 | 1823.0 | 1616.1 | 1417.9 | 1238.3 | 981.2 |
| 85° | 1644.8 | 1455.2 | 1231.1 | 1091.8 | 840.4 | 657.9 | 616.3 | 507.1 | 472.6 | 364.9 | 307.4 |
| 87.5° | 553.1 | 452.5 | 337.6 | 284.4 | 227.0 | 185.3 | 182.4 | 162.3 | 160.9 | 146.5 | 135.0 |
| 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: VTS-E07-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 |
| 2.5° | 2378.9 | 2381.8 | 2381.8 | 2378.9 | 2380.4 | 2377.5 | 2378.9 | 2380.4 | 2376.0 | 2374.6 | 2370.3 |
| 5° | 2437.8 | 2436.4 | 2436.4 | 2437.8 | 2442.1 | 2443.6 | 2436.4 | 2439.3 | 2440.7 | 2433.5 | 2417.7 |
| 7.5° | 2535.5 | 2535.5 | 2539.8 | 2538.4 | 2547.0 | 2544.1 | 2542.7 | 2542.7 | 2542.7 | 2528.3 | 2502.5 |
| 10° | 2667.7 | 2667.7 | 2672.0 | 2677.7 | 2679.2 | 2676.3 | 2676.3 | 2677.7 | 2684.9 | 2656.2 | 2616.0 |
| 12.5° | 2815.6 | 2822.8 | 2821.4 | 2821.4 | 2838.6 | 2834.3 | 2828.6 | 2834.3 | 2841.5 | 2801.3 | 2743.8 |
| 15° | 2980.8 | 2985.1 | 2988.0 | 2998.1 | 2995.2 | 3005.3 | 3008.1 | 3005.3 | 3012.4 | 2960.7 | 2864.5 |
| 17.5° | 3130.2 | 3138.9 | 3141.7 | 3153.2 | 3153.2 | 3154.7 | 3166.2 | 3161.8 | 3163.3 | 3104.4 | 2966.5 |
| 20° | 3253.8 | 3262.4 | 3266.7 | 3279.6 | 3282.5 | 3288.3 | 3292.6 | 3295.4 | 3302.6 | 3232.2 | 3049.8 |
| 22.5° | 3377.3 | 3384.5 | 3391.7 | 3400.3 | 3411.8 | 3419.0 | 3424.7 | 3427.6 | 3440.5 | 3358.6 | 3128.8 |
| 25° | 3515.2 | 3531.0 | 3538.2 | 3552.6 | 3564.1 | 3575.6 | 3584.2 | 3585.6 | 3607.2 | 3505.2 | 3193.4 |
| 27.5° | 3699.1 | 3720.7 | 3732.2 | 3755.1 | 3766.6 | 3778.1 | 3775.2 | 3792.5 | 3822.7 | 3673.3 | 3243.7 |
| 30° | 3940.5 | 3967.7 | 3974.9 | 3997.9 | 4016.6 | 4028.1 | 4041.0 | 4055.4 | 4075.5 | 3860.0 | 3268.1 |
| 32.5° | 4276.6 | 4318.3 | 4328.3 | 4341.2 | 4368.5 | 4388.7 | 4397.3 | 4420.3 | 4426.0 | 4036.7 | 3261.0 |
| 35° | 4737.7 | 4719.1 | 4767.9 | 4779.4 | 4818.2 | 4834.0 | 4844.0 | 4874.2 | 4851.2 | 4229.2 | 3213.6 |
| 37.5° | 5154.3 | 5148.6 | 5196.0 | 5221.9 | 5272.1 | 5260.6 | 5285.1 | 5305.2 | 5223.3 | 4365.7 | 3125.9 |
| 40° | 5662.9 | 5655.7 | 5721.8 | 5730.4 | 5808.0 | 5790.7 | 5800.8 | 5816.6 | 5634.1 | 4460.5 | 2966.5 |
| 42.5° | 6372.5 | 6375.4 | 6445.8 | 6454.4 | 6464.5 | 6496.1 | 6444.4 | 6447.2 | 6070.9 | 4486.3 | 2703.6 |
| 45° | 7307.7 | 7358.0 | 7314.9 | 7316.3 | 7313.5 | 7253.1 | 7188.5 | 7112.3 | 6524.8 | 4397.3 | 2364.6 |
| 47.5° | 8214.2 | 8179.7 | 8125.1 | 8074.8 | 8033.2 | 7938.4 | 7843.6 | 7714.3 | 6917.0 | 4186.1 | 1986.7 |
| 50° | 8989.9 | 8912.3 | 8863.5 | 8724.2 | 8625.0 | 8501.5 | 8369.3 | 8221.4 | 7238.8 | 3881.6 | 1633.4 |
| 52.5° | 9711.1 | 9630.6 | 9448.2 | 9303.1 | 9160.9 | 8997.1 | 8843.4 | 8669.6 | 7523.2 | 3533.9 | 1363.3 |
| 55° | 10909.1 | 10838.8 | 10656.3 | 10390.5 | 10215.3 | 9989.8 | 9787.2 | 9551.6 | 8099.3 | 3252.3 | 1185.2 |
| 57.5° | 13697.5 | 13637.1 | 13253.6 | 13085.5 | 12854.2 | 12288.2 | 12204.9 | 11837.2 | 9643.5 | 3219.3 | 1080.3 |
| 60° | 17623.6 | 17365.0 | 17046.1 | 16586.4 | 16044.8 | 15858.0 | 15441.5 | 14951.6 | 12128.8 | 3309.8 | 995.5 |
| 62.5° | 20034.1 | 19445.1 | 18976.8 | 18446.7 | 17948.2 | 17520.1 | 17064.7 | 16580.6 | 13400.1 | 3190.6 | 890.7 |
| 65° | 20215.1 | 19522.7 | 18903.5 | 18281.5 | 17721.3 | 17188.3 | 16745.8 | 16261.7 | 12986.4 | 2742.4 | 754.2 |
| 67.5° | 19218.1 | 18488.4 | 17813.2 | 17107.8 | 16541.8 | 16060.6 | 15497.5 | 15032.0 | 11819.9 | 2134.7 | 627.8 |
| 70° | 17162.4 | 16521.7 | 15939.9 | 15180.0 | 14710.2 | 14124.1 | 13766.4 | 13184.6 | 10302.9 | 1455.2 | 518.6 |
| 72.5° | 12361.5 | 11878.8 | 11689.2 | 11159.1 | 10544.3 | 10199.5 | 10034.3 | 9469.7 | 7613.7 | 903.6 | 423.8 |
| 75° | 4176.0 | 4295.3 | 4022.3 | 3604.3 | 3808.3 | 3493.7 | 3621.5 | 3352.9 | 3220.7 | 518.6 | 356.3 |
| 77.5° | 926.6 | 870.5 | 804.5 | 747.0 | 742.7 | 698.2 | 739.8 | 699.6 | 748.4 | 330.4 | 314.6 |
| 80° | 731.2 | 577.5 | 491.3 | 448.2 | 425.2 | 412.3 | 402.2 | 390.7 | 356.3 | 281.6 | 290.2 |
| 82.5° | 790.1 | 596.2 | 436.7 | 349.1 | 298.8 | 280.1 | 275.8 | 264.3 | 261.5 | 272.9 | 293.1 |
| 85° | 252.8 | 211.2 | 179.6 | 169.5 | 156.6 | 149.4 | 146.5 | 142.2 | 172.4 | 297.4 | 281.6 |
| 87.5° | 132.2 | 116.4 | 103.4 | 99.1 | 86.2 | 80.4 | 79.0 | 80.4 | 120.7 | 297.4 | 204.0 |
| 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: P158142

CATALOG NUMBER: VTS-E07-LED-E1-SL2-7060

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 | 2364.6 |
| 2.5° | 2366.0 | 2364.6 | 2361.7 | 2360.2 | 2358.8 | 2351.6 | 2357.4 |
| 5° | 2410.5 | 2396.2 | 2383.2 | 2367.4 | 2358.8 | 2351.6 | 2351.6 |
| 7.5° | 2478.0 | 2437.8 | 2404.8 | 2368.9 | 2344.4 | 2325.8 | 2322.9 |
| 10° | 2562.8 | 2485.2 | 2409.1 | 2344.4 | 2298.5 | 2264.0 | 2259.7 |
| 12.5° | 2643.2 | 2525.5 | 2404.8 | 2298.5 | 2226.6 | 2177.8 | 2174.9 |
| 15° | 2717.9 | 2547.0 | 2371.7 | 2215.2 | 2107.4 | 2042.8 | 2035.6 |
| 17.5° | 2776.8 | 2534.1 | 2297.0 | 2098.8 | 1952.3 | 1876.1 | 1871.8 |
| 20° | 2789.8 | 2482.4 | 2190.7 | 1955.1 | 1800.0 | 1719.5 | 1700.9 |
| 22.5° | 2778.3 | 2389.0 | 2058.6 | 1797.1 | 1619.0 | 1538.5 | 1528.5 |
| 25° | 2743.8 | 2275.5 | 1894.8 | 1613.2 | 1448.0 | 1366.2 | 1346.0 |
| 27.5° | 2682.0 | 2141.9 | 1718.1 | 1435.1 | 1271.3 | 1192.3 | 1172.2 |
| 30° | 2590.1 | 1981.0 | 1529.9 | 1268.5 | 1099.0 | 1035.8 | 1015.6 |
| 32.5° | 2462.2 | 1785.6 | 1344.6 | 1097.5 | 956.7 | 906.5 | 897.8 |
| 35° | 2285.5 | 1561.5 | 1150.7 | 956.7 | 853.3 | 823.1 | 818.8 |
| 37.5° | 2060.0 | 1337.4 | 988.3 | 856.2 | 781.5 | 762.8 | 759.9 |
| 40° | 1765.5 | 1107.6 | 873.4 | 784.4 | 729.8 | 714.0 | 711.1 |
| 42.5° | 1462.4 | 935.2 | 788.7 | 726.9 | 682.4 | 668.0 | 663.7 |
| 45° | 1196.6 | 818.8 | 725.5 | 679.5 | 637.8 | 622.0 | 620.6 |
| 47.5° | 998.4 | 751.3 | 673.7 | 636.4 | 594.7 | 576.1 | 577.5 |
| 50° | 853.3 | 689.5 | 630.6 | 599.0 | 551.6 | 534.4 | 535.8 |
| 52.5° | 754.2 | 627.8 | 590.4 | 554.5 | 514.3 | 497.0 | 497.0 |
| 55° | 676.6 | 577.5 | 551.6 | 512.8 | 481.2 | 465.4 | 464.0 |
| 57.5° | 613.4 | 537.3 | 514.3 | 482.7 | 451.1 | 432.4 | 432.4 |
| 60° | 574.6 | 508.5 | 489.9 | 461.1 | 423.8 | 403.7 | 402.2 |
| 62.5° | 551.6 | 499.9 | 484.1 | 443.9 | 402.2 | 382.1 | 377.8 |
| 65° | 534.4 | 520.0 | 499.9 | 433.8 | 385.0 | 363.4 | 359.1 |
| 67.5° | 535.8 | 567.4 | 538.7 | 439.6 | 379.2 | 347.6 | 341.9 |
| 70° | 544.5 | 604.8 | 566.0 | 452.5 | 403.7 | 340.5 | 327.5 |
| 72.5° | 501.4 | 547.3 | 510.0 | 431.0 | 393.6 | 327.5 | 311.7 |
| 75° | 418.0 | 399.4 | 366.3 | 350.5 | 353.4 | 297.4 | 291.6 |
| 77.5° | 339.0 | 297.4 | 265.8 | 278.7 | 297.4 | 254.3 | 248.5 |
| 80° | 294.5 | 241.3 | 225.5 | 247.1 | 270.1 | 216.9 | 202.6 |
| 82.5° | 275.8 | 204.0 | 193.9 | 257.1 | 283.0 | 186.8 | 163.8 |
| 85° | 242.8 | 166.6 | 152.3 | 303.1 | 283.0 | 140.8 | 130.7 |
| 87.5° | 162.3 | 99.1 | 94.8 | 222.7 | 193.9 | 97.7 | 79.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)