

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: P970963

Luminaire Tested: **NAV-SB6C-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-750-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37288.5 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9  
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: 24 FT



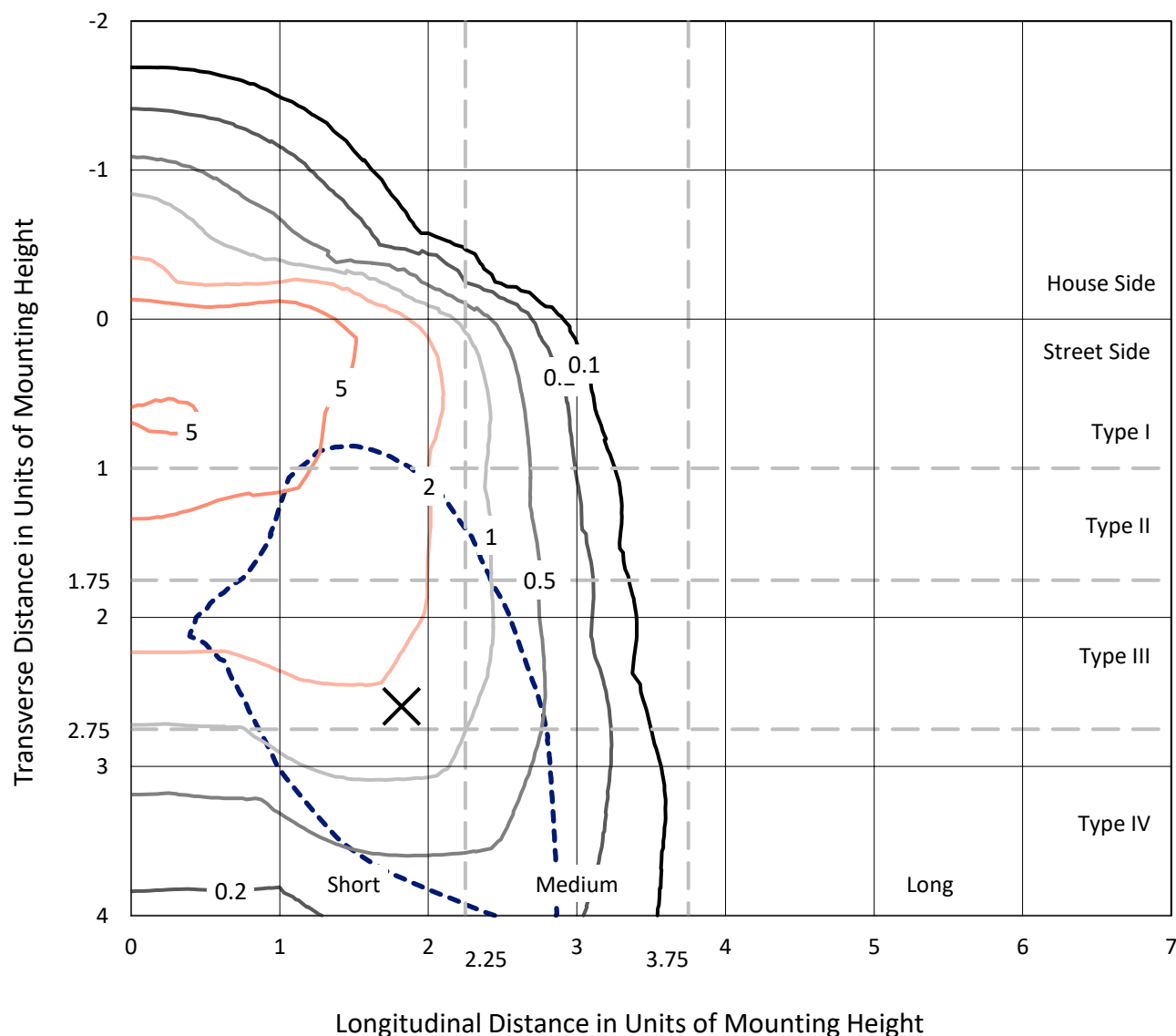
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

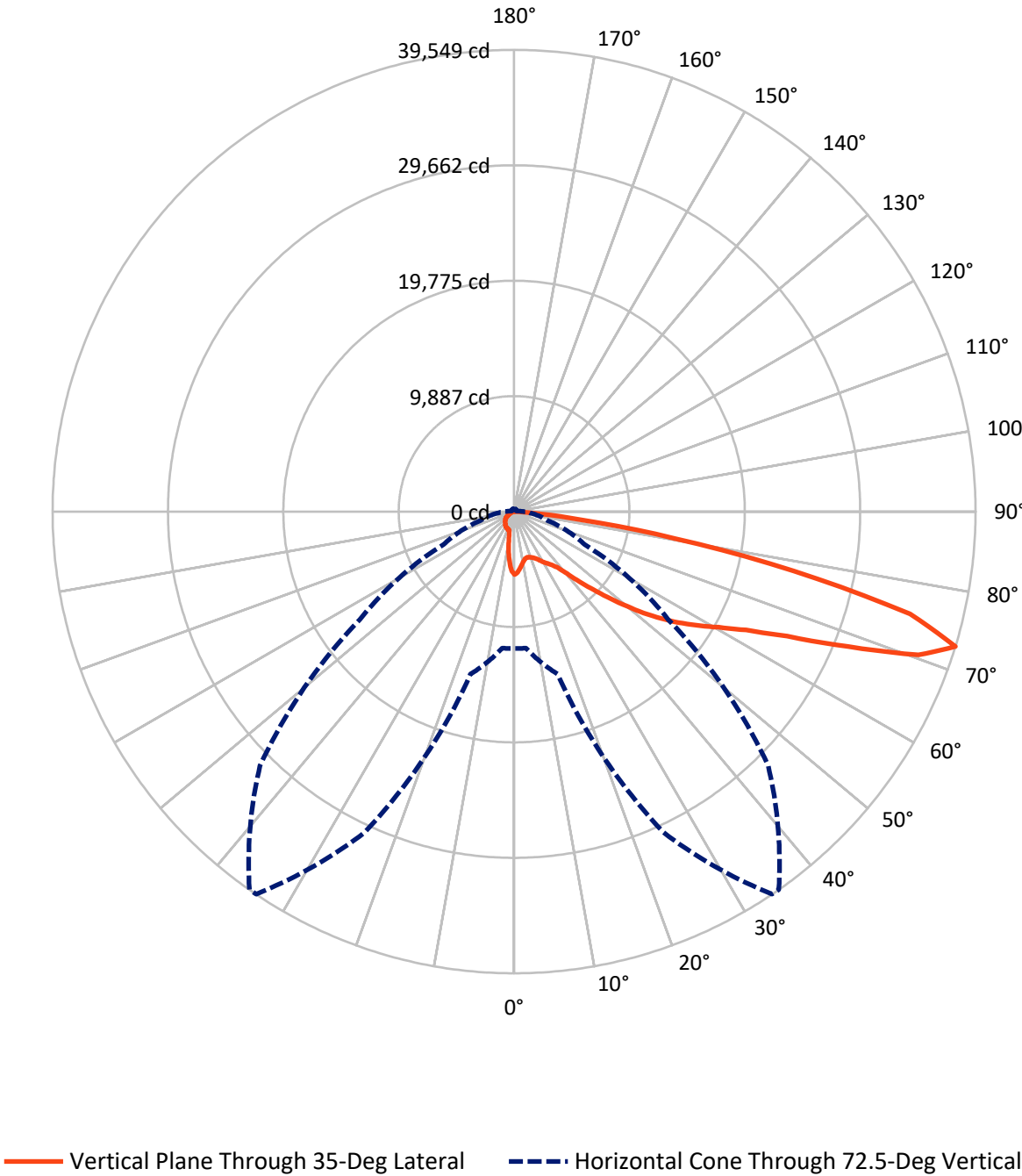


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4196.7   | 0.0    | 4196.7  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 33091.8  | 0.0    | 33091.8 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 37288.5  | 0.0    | 37288.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 444.1   | 1.2       |
| 10°-20°   | 1038.9  | 2.8       |
| 20°-30°   | 1687.7  | 4.5       |
| 30°-40°   | 2815.9  | 7.6       |
| 40°-50°   | 5327.7  | 14.3      |
| 50°-60°   | 8465.7  | 22.7      |
| 60°-70°   | 10472.6 | 28.1      |
| 70°-80°   | 6509.9  | 17.5      |
| 80°-90°   | 526.1   | 1.4       |
| 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°    | 37288.5 | 100.0     |
| 0°-180°   | 37288.5 | 100.0     |

**Coefficient of Utilization**



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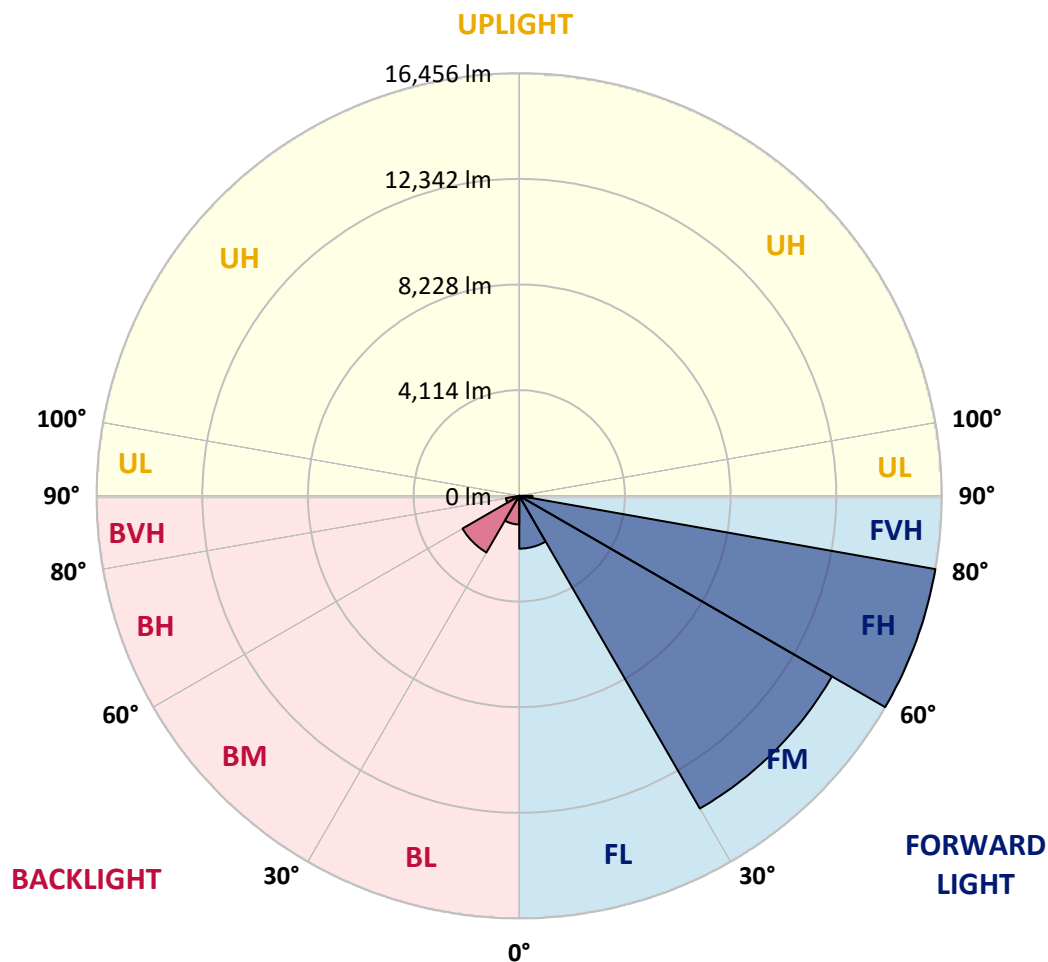
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2055.5  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 14061.5 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 16455.9 | 44.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 518.9   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1115.1  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2547.7  | 6.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 526.6   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 7.2     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  | 5404.3  |
| 2.5°  | 5164.0  | 5207.6  | 5215.8  | 5229.4  | 5229.4  | 5245.8  | 5273.2  | 5311.4  | 5374.3  | 5407.1  | 5428.9  |
| 5°    | 4759.6  | 4792.3  | 4833.3  | 4866.1  | 4928.9  | 4937.1  | 5043.7  | 5147.5  | 5292.3  | 5401.6  | 5478.1  |
| 7.5°  | 4352.5  | 4390.7  | 4445.3  | 4524.6  | 4606.6  | 4631.2  | 4792.3  | 4967.2  | 5196.8  | 5401.6  | 5530.1  |
| 10°   | 4065.6  | 4068.3  | 4117.4  | 4196.7  | 4327.9  | 4357.9  | 4554.6  | 4803.3  | 5090.2  | 5368.8  | 5579.2  |
| 12.5° | 3904.3  | 3923.5  | 3945.3  | 4005.5  | 4131.2  | 4150.2  | 4360.7  | 4653.0  | 4983.5  | 5349.7  | 5636.6  |
| 15°   | 3904.3  | 3918.1  | 3931.7  | 3961.7  | 4062.8  | 4079.2  | 4265.0  | 4557.4  | 4928.9  | 5357.9  | 5729.4  |
| 17.5° | 3945.3  | 3967.2  | 3956.3  | 3991.8  | 4098.4  | 4109.2  | 4273.2  | 4530.0  | 4926.3  | 5409.8  | 5871.6  |
| 20°   | 4043.7  | 4060.1  | 4038.2  | 4060.1  | 4166.6  | 4188.5  | 4357.9  | 4582.0  | 4972.7  | 5499.9  | 6049.1  |
| 22.5° | 4199.4  | 4207.6  | 4155.8  | 4172.2  | 4281.4  | 4308.7  | 4505.5  | 4729.5  | 5084.7  | 5644.8  | 6286.8  |
| 25°   | 4396.1  | 4412.5  | 4333.3  | 4352.5  | 4456.3  | 4489.1  | 4715.8  | 4950.8  | 5262.2  | 5844.2  | 6590.1  |
| 27.5° | 4623.0  | 4631.2  | 4562.8  | 4560.1  | 4694.0  | 4740.4  | 4969.9  | 5224.0  | 5499.9  | 6095.6  | 6972.7  |
| 30°   | 4882.5  | 4907.1  | 4841.5  | 4830.6  | 5000.0  | 5038.2  | 5265.0  | 5560.1  | 5849.7  | 6472.7  | 7516.3  |
| 32.5° | 5087.4  | 5106.5  | 5068.3  | 5095.6  | 5267.8  | 5297.8  | 5622.9  | 6035.5  | 6398.9  | 7008.1  | 8256.8  |
| 35°   | 5382.5  | 5393.4  | 5306.0  | 5355.2  | 5551.9  | 5628.4  | 6112.0  | 6702.2  | 7090.1  | 7680.3  | 9224.0  |
| 37.5° | 6450.8  | 6450.8  | 6079.2  | 5836.0  | 6024.5  | 6092.9  | 6781.4  | 7540.9  | 7942.6  | 8581.9  | 10442.6 |
| 40°   | 7928.9  | 7904.4  | 7360.6  | 6863.4  | 6838.8  | 6972.7  | 7735.0  | 8598.3  | 9043.7  | 9663.9  | 11814.2 |
| 42.5° | 9505.4  | 9467.2  | 8726.7  | 8235.0  | 8153.0  | 8199.4  | 8836.0  | 9901.6  | 10355.2 | 10983.6 | 13289.5 |
| 45°   | 10904.4 | 10893.4 | 10215.8 | 9554.6  | 9407.0  | 9554.6  | 10210.3 | 11426.2 | 11751.3 | 12412.5 | 14762.3 |
| 47.5° | 12076.4 | 12076.4 | 11581.9 | 11150.3 | 11073.7 | 11161.1 | 12071.0 | 13117.4 | 13087.4 | 13934.4 | 16196.6 |
| 50°   | 13426.2 | 13415.2 | 12945.3 | 12759.5 | 12838.7 | 12961.7 | 14213.1 | 14898.9 | 14469.9 | 15428.9 | 17478.1 |
| 52.5° | 14371.5 | 14437.1 | 14275.9 | 14245.9 | 14650.2 | 14863.3 | 16387.9 | 16642.0 | 15707.6 | 16846.9 | 18437.1 |
| 55°   | 15120.2 | 15196.6 | 15382.5 | 15592.8 | 16371.5 | 16650.2 | 18494.5 | 18295.0 | 16743.1 | 18076.4 | 18988.9 |
| 57.5° | 16180.2 | 16071.0 | 16357.9 | 16773.2 | 18032.7 | 18368.8 | 20535.5 | 19855.1 | 17576.4 | 19073.7 | 19049.1 |
| 60°   | 17467.1 | 17483.5 | 17532.7 | 18057.3 | 19691.2 | 20122.9 | 22546.3 | 21330.6 | 18112.0 | 19685.7 | 18382.5 |
| 62.5° | 19013.5 | 19038.1 | 19139.3 | 19945.3 | 21918.0 | 22325.0 | 24688.5 | 22538.2 | 18357.9 | 19513.5 | 16661.2 |
| 65°   | 18907.0 | 19010.9 | 20139.3 | 22896.0 | 25303.1 | 25704.8 | 27188.4 | 23385.2 | 17986.3 | 17939.9 | 13565.6 |
| 67.5° | 17224.0 | 17393.3 | 19281.4 | 26420.7 | 30406.9 | 30855.1 | 30210.2 | 23551.8 | 16382.5 | 13950.8 | 8849.6  |
| 70°   | 15016.4 | 15076.4 | 17346.9 | 29590.0 | 36316.8 | 36770.3 | 32915.2 | 21718.5 | 12431.6 | 7781.4  | 3964.5  |
| 72.5° | 11726.7 | 11740.3 | 14404.3 | 30325.0 | 39524.4 | 39549.0 | 30792.2 | 16122.8 | 6685.8  | 2989.1  | 1377.1  |
| 75°   | 8377.0  | 8295.0  | 9647.5  | 24592.8 | 34773.1 | 35051.8 | 23084.6 | 7562.9  | 2554.6  | 1412.6  | 685.8   |
| 77.5° | 4491.8  | 4582.0  | 5458.9  | 14584.6 | 24021.8 | 24497.2 | 12595.6 | 2180.3  | 1300.5  | 961.8   | 453.6   |
| 80°   | 1388.0  | 1464.5  | 2237.7  | 6677.6  | 13606.5 | 13893.4 | 4669.4  | 970.0   | 907.1   | 685.8   | 297.8   |
| 82.5° | 437.2   | 453.6   | 1043.8  | 2806.0  | 5647.5  | 5778.6  | 1352.5  | 549.2   | 620.2   | 453.6   | 174.9   |
| 85°   | 125.7   | 128.4   | 464.5   | 1046.4  | 1396.2  | 1423.5  | 379.8   | 213.1   | 355.2   | 281.5   | 90.2    |
| 87.5° | 13.6    | 43.7    | 174.9   | 174.9   | 123.0   | 120.2   | 41.0    | 46.4    | 101.1   | 35.6    | 16.4    |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5404.3  | 5404.3  | 5404.3 | 5404.3 | 5404.3 | 5404.3 | 5404.3 | 5404.3 | 5404.3 | 5404.3 | 5404.3 |
| 2.5°  | 5415.3  | 5418.0  | 5382.5 | 5322.4 | 5256.8 | 5202.2 | 5133.8 | 5079.2 | 5041.0 | 5030.1 | 5049.2 |
| 5°    | 5453.5  | 5434.4  | 5333.3 | 5150.2 | 4931.7 | 4743.2 | 4532.8 | 4366.1 | 4256.8 | 4210.4 | 4226.8 |
| 7.5°  | 5510.9  | 5456.3  | 5235.0 | 4874.3 | 4456.3 | 4084.7 | 3707.6 | 3415.3 | 3229.5 | 3136.6 | 3150.2 |
| 10°   | 5560.1  | 5450.8  | 5071.0 | 4475.4 | 3836.1 | 3273.2 | 2765.0 | 2412.5 | 2215.8 | 2123.0 | 2125.6 |
| 12.5° | 5606.5  | 5448.1  | 4857.9 | 4002.7 | 3136.6 | 2448.1 | 1975.4 | 1800.5 | 1745.9 | 1726.8 | 1721.3 |
| 15°   | 5694.0  | 5456.3  | 4590.2 | 3461.7 | 2439.9 | 1849.7 | 1677.6 | 1674.8 | 1685.8 | 1680.3 | 1677.6 |
| 17.5° | 5814.2  | 5464.5  | 4286.9 | 2887.9 | 1882.5 | 1631.2 | 1623.0 | 1647.6 | 1663.9 | 1655.7 | 1653.0 |
| 20°   | 5969.9  | 5497.3  | 3964.5 | 2319.7 | 1617.4 | 1576.4 | 1595.6 | 1617.4 | 1631.2 | 1617.4 | 1614.8 |
| 22.5° | 6188.5  | 5554.6  | 3612.0 | 1863.3 | 1532.8 | 1543.8 | 1560.2 | 1584.6 | 1598.4 | 1579.2 | 1576.4 |
| 25°   | 6456.3  | 5644.8  | 3265.0 | 1620.2 | 1491.8 | 1505.4 | 1530.0 | 1557.4 | 1573.8 | 1554.6 | 1552.0 |
| 27.5° | 6803.2  | 5789.6  | 2945.3 | 1565.6 | 1450.8 | 1459.0 | 1494.6 | 1535.6 | 1557.4 | 1532.8 | 1532.8 |
| 30°   | 7306.0  | 6027.3  | 2669.4 | 1590.2 | 1426.2 | 1407.1 | 1456.3 | 1513.6 | 1538.2 | 1516.4 | 1513.6 |
| 32.5° | 7972.7  | 6363.4  | 2500.0 | 1628.4 | 1415.3 | 1347.0 | 1393.5 | 1467.2 | 1508.2 | 1494.6 | 1494.6 |
| 35°   | 8847.0  | 6874.3  | 2434.4 | 1672.1 | 1407.1 | 1284.1 | 1316.9 | 1396.2 | 1467.2 | 1480.8 | 1480.8 |
| 37.5° | 9907.0  | 7584.7  | 2453.5 | 1691.2 | 1382.5 | 1232.3 | 1248.7 | 1316.9 | 1409.8 | 1453.6 | 1464.5 |
| 40°   | 11112.0 | 8412.6  | 2562.8 | 1672.1 | 1355.2 | 1188.5 | 1191.3 | 1243.1 | 1325.1 | 1390.7 | 1412.6 |
| 42.5° | 12355.1 | 9379.8  | 2765.0 | 1601.0 | 1330.6 | 1150.3 | 1142.1 | 1177.6 | 1232.3 | 1278.7 | 1297.9 |
| 45°   | 13538.2 | 10374.2 | 2964.5 | 1502.8 | 1300.5 | 1112.0 | 1092.9 | 1106.6 | 1117.5 | 1136.6 | 1147.5 |
| 47.5° | 14571.0 | 11073.7 | 2907.1 | 1412.6 | 1259.5 | 1068.3 | 1035.6 | 1030.0 | 997.2  | 994.6  | 991.8  |
| 50°   | 15284.1 | 11226.7 | 2582.0 | 1322.4 | 1199.5 | 1019.2 | 967.2  | 934.4  | 877.1  | 849.7  | 852.5  |
| 52.5° | 15510.9 | 10622.9 | 2109.2 | 1232.3 | 1101.1 | 953.6  | 879.8  | 827.9  | 756.9  | 732.3  | 729.5  |
| 55°   | 15210.3 | 9439.8  | 1685.8 | 1123.0 | 964.5  | 866.1  | 784.1  | 715.9  | 658.5  | 628.4  | 628.4  |
| 57.5° | 14475.4 | 7934.4  | 1333.3 | 994.6  | 819.7  | 767.7  | 685.8  | 617.5  | 568.3  | 538.2  | 532.8  |
| 60°   | 13256.7 | 6300.6  | 1054.6 | 841.5  | 699.5  | 661.2  | 576.5  | 532.8  | 489.0  | 453.6  | 445.4  |
| 62.5° | 11407.0 | 4497.3  | 827.9  | 666.7  | 584.7  | 541.0  | 491.8  | 459.0  | 407.1  | 357.9  | 349.7  |
| 65°   | 8901.6  | 2751.3  | 639.3  | 489.0  | 470.0  | 448.1  | 418.0  | 388.0  | 325.1  | 275.9  | 267.7  |
| 67.5° | 5614.7  | 1303.3  | 456.3  | 368.9  | 371.6  | 360.7  | 347.0  | 322.4  | 275.9  | 232.3  | 226.7  |
| 70°   | 2472.7  | 631.2   | 300.5  | 281.5  | 275.9  | 275.9  | 286.9  | 278.7  | 234.9  | 194.0  | 185.8  |
| 72.5° | 841.5   | 338.8   | 224.1  | 213.1  | 199.5  | 196.7  | 240.5  | 232.3  | 188.5  | 150.3  | 142.1  |
| 75°   | 439.9   | 226.7   | 163.9  | 153.0  | 120.2  | 144.8  | 191.3  | 180.3  | 133.9  | 98.4   | 90.2   |
| 77.5° | 286.9   | 161.2   | 112.0  | 98.4   | 68.3   | 95.6   | 142.1  | 125.7  | 79.2   | 49.2   | 43.7   |
| 80°   | 180.3   | 106.6   | 65.6   | 46.4   | 32.8   | 51.9   | 76.5   | 54.6   | 30.0   | 11.0   | 8.2    |
| 82.5° | 95.6    | 54.6    | 24.6   | 16.4   | 13.6   | 16.4   | 19.2   | 13.6   | 5.4    | 0.0    | 0.0    |
| 85°   | 38.2    | 19.2    | 8.2    | 5.4    | 2.8    | 0.0    | 5.4    | 2.8    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.6    | 2.8     | 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)