

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: P534292

Luminaire Tested: **GLAN-SA9D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55269 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

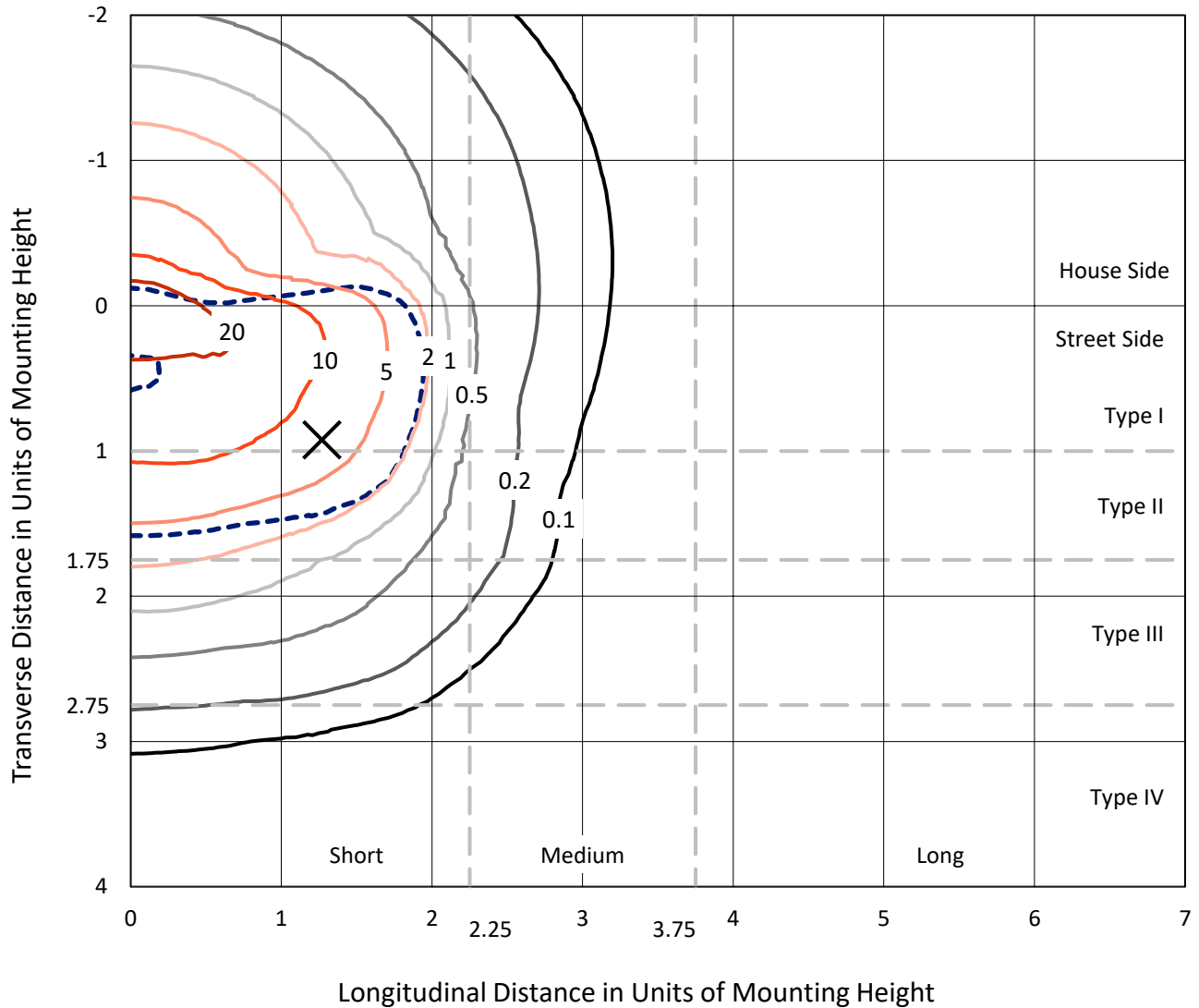
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

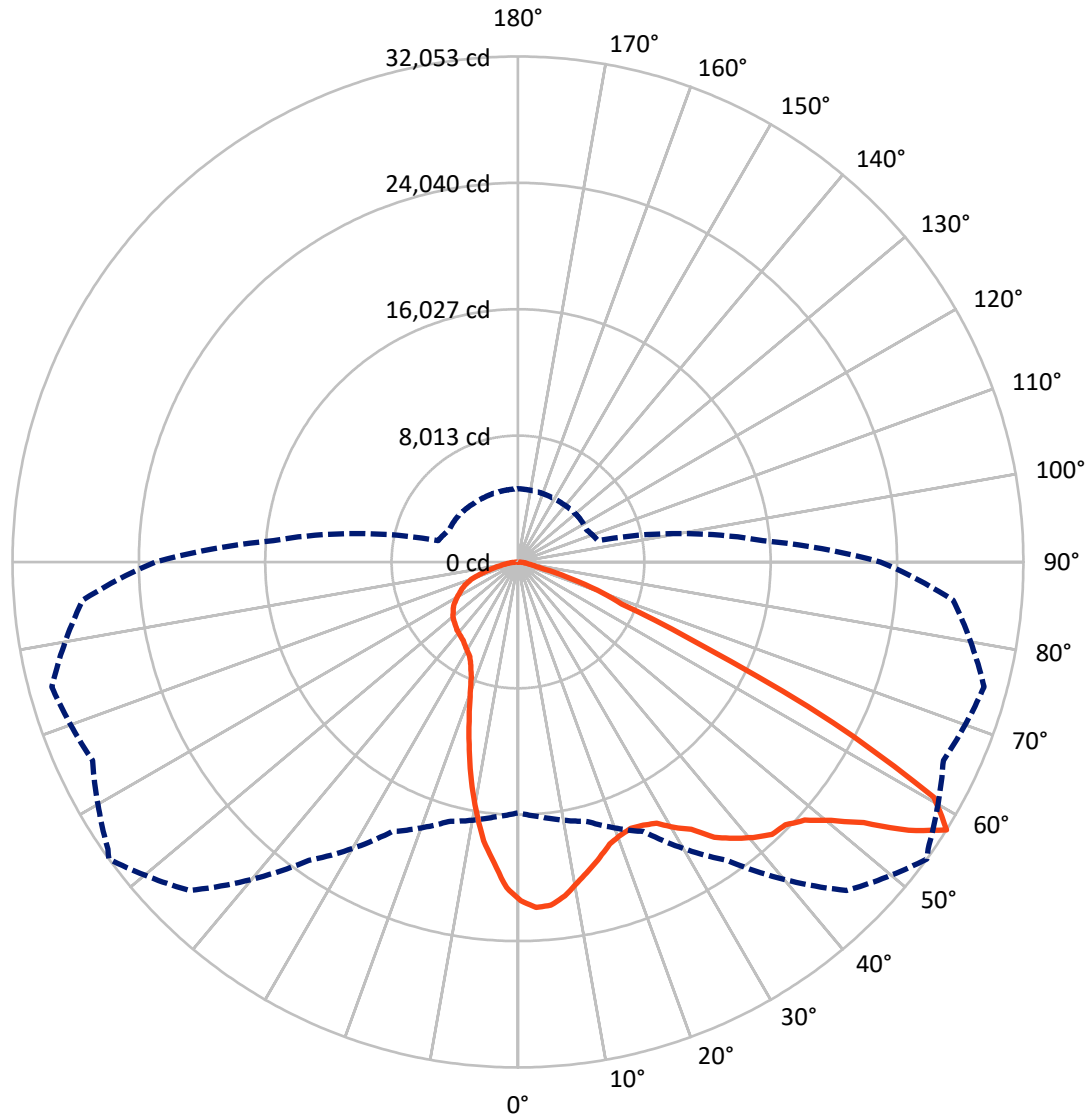
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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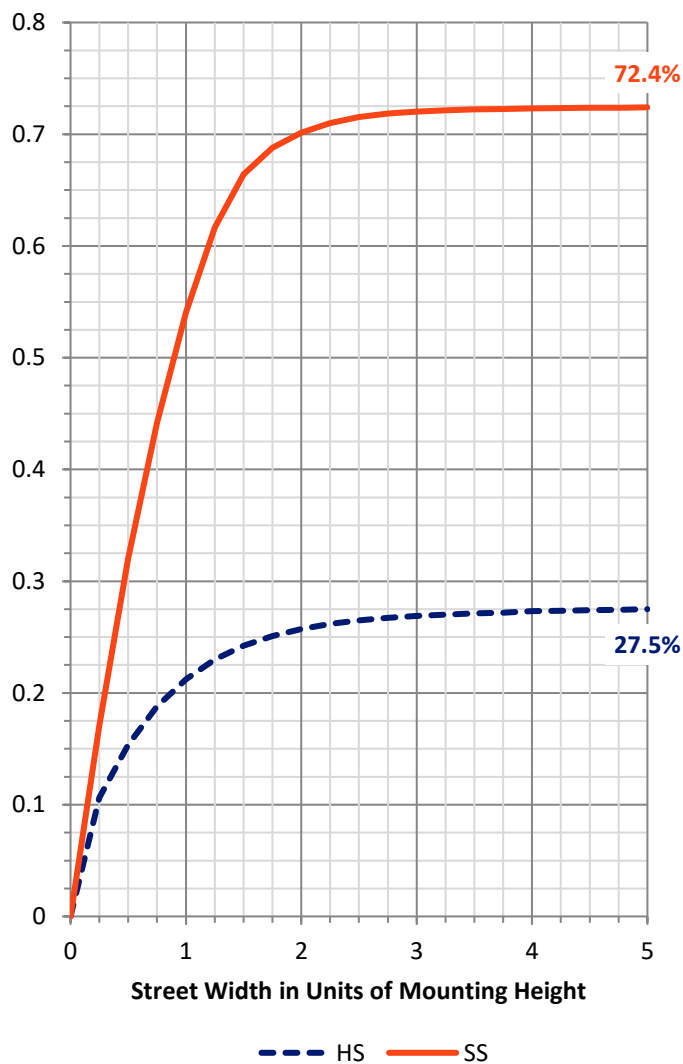
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15290.5 | 0.0 | 15290.5 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 39978.5 | 0.0 | 39978.5 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 55269.0 | 0.0 | 55269.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1852.7 | 3.4 |
| 10°-20° | 4289.6 | 7.8 |
| 20°-30° | 6026.9 | 10.9 |
| 30°-40° | 8425.7 | 15.2 |
| 40°-50° | 11406.7 | 20.6 |
| 50°-60° | 13893.9 | 25.1 |
| 60°-70° | 7236.5 | 13.1 |
| 70°-80° | 1854.3 | 3.4 |
| 80°-90° | 282.8 | 0.5 |
| 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° | 55269.0 | 100.0 |
| 0°-180° | 55269.0 | 100.0 |

Coefficient of Utilization

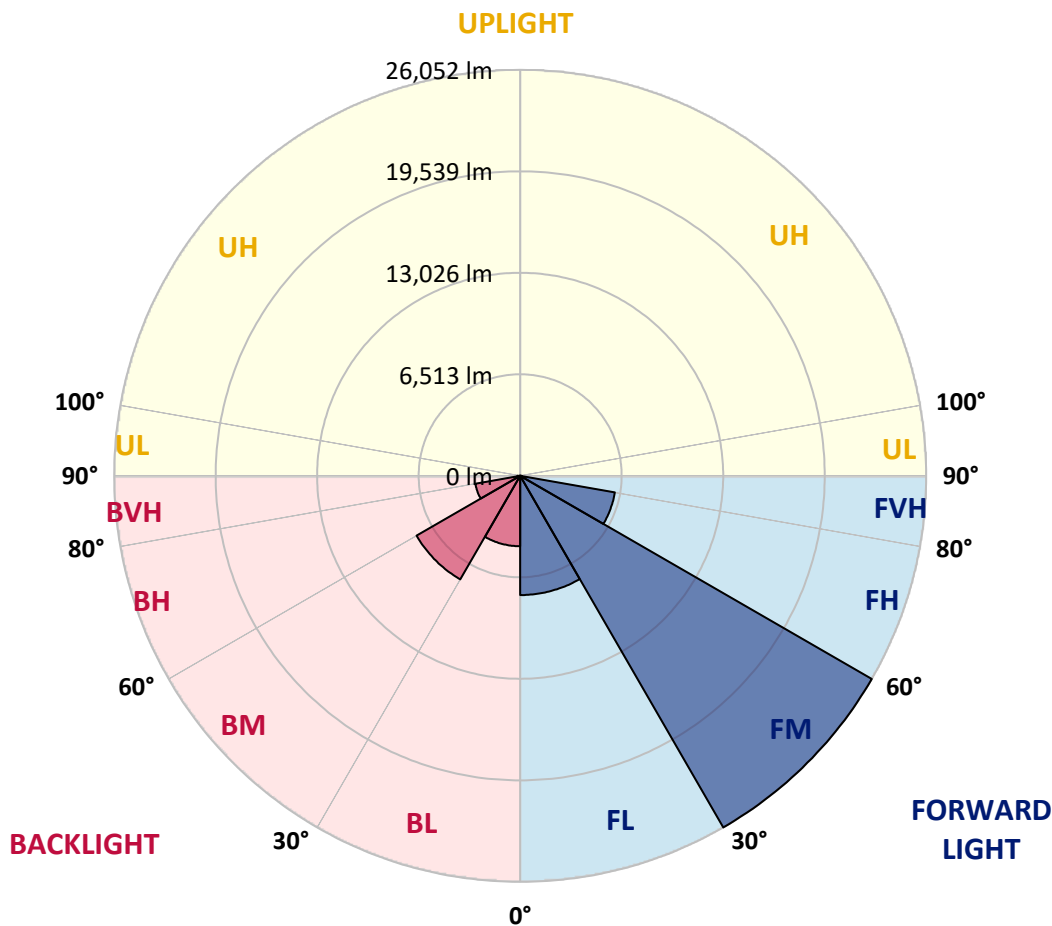


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 7650.0 | 13.8 | | | |
| FM (30°-60°) | 26052.1 | 47.1 | | | |
| FH (60°-80°) | 6169.6 | 11.2 | | | G3/7500 |
| FVH (80°-90°) | 106.9 | 0.2 | | | G2/225 |
| BL (0°-30°) | 4519.1 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 7674.1 | 13.9 | B4/8500 | | |
| BH (60°-80°) | 2921.2 | 5.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 176.0 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 |
| 2.5° | 22093.4 | 22008.1 | 22022.3 | 22136.0 | 21993.9 | 21937.1 | 21937.1 | 21660.0 | 21681.3 | 21489.5 | 21439.8 |
| 5° | 21581.9 | 21383.0 | 21517.9 | 21688.4 | 21716.9 | 21773.7 | 21866.0 | 21795.0 | 21596.1 | 21390.1 | 21056.2 |
| 7.5° | 20246.3 | 20423.9 | 20473.7 | 20594.4 | 20850.2 | 21084.6 | 21375.9 | 21177.0 | 21169.9 | 20963.8 | 20764.9 |
| 10° | 19074.2 | 18967.6 | 19237.6 | 19415.2 | 19841.4 | 20232.1 | 20679.7 | 20658.4 | 20764.9 | 20530.5 | 20189.5 |
| 12.5° | 17909.1 | 17823.9 | 17951.8 | 18356.7 | 18953.4 | 19521.7 | 20054.5 | 19855.6 | 20423.9 | 20381.3 | 19649.6 |
| 15° | 16673.0 | 16737.0 | 16921.7 | 17298.2 | 18079.6 | 18761.6 | 19436.5 | 19443.6 | 19948.0 | 20118.5 | 19138.1 |
| 17.5° | 15806.3 | 15735.3 | 15969.7 | 16531.0 | 17227.1 | 18044.1 | 18811.3 | 18967.6 | 19742.0 | 19841.4 | 18981.8 |
| 20° | 15159.9 | 15259.3 | 15564.8 | 15849.0 | 16651.7 | 17639.2 | 18505.9 | 18562.7 | 19699.3 | 19969.3 | 18733.2 |
| 22.5° | 15003.6 | 14946.8 | 15046.2 | 15508.0 | 16168.7 | 17241.4 | 18342.5 | 18555.6 | 19692.2 | 19926.7 | 18264.3 |
| 25° | 14840.2 | 15024.9 | 15017.8 | 15479.6 | 15962.6 | 16921.7 | 18477.4 | 18711.9 | 20068.7 | 20146.9 | 18328.3 |
| 27.5° | 15209.6 | 15188.3 | 15387.2 | 15422.7 | 16019.5 | 17006.9 | 18761.6 | 18939.2 | 20693.9 | 20629.9 | 18378.0 |
| 30° | 15579.0 | 15472.5 | 15593.2 | 16012.4 | 16289.4 | 17497.1 | 19543.0 | 19528.8 | 21503.7 | 21461.1 | 18534.3 |
| 32.5° | 16033.7 | 15983.9 | 16062.1 | 16431.5 | 16900.4 | 18150.7 | 20203.7 | 20622.8 | 22327.8 | 22597.8 | 19074.2 |
| 35° | 16118.9 | 16324.9 | 16509.6 | 17006.9 | 17674.7 | 19209.2 | 21446.9 | 21795.0 | 23279.7 | 24125.1 | 20104.3 |
| 37.5° | 16658.8 | 16737.0 | 17170.3 | 18051.2 | 18662.1 | 20622.8 | 22235.4 | 22455.7 | 24146.4 | 25105.5 | 21191.2 |
| 40° | 17234.2 | 17326.6 | 17980.2 | 18903.7 | 19742.0 | 21546.4 | 22974.3 | 23045.3 | 24423.5 | 25858.5 | 21901.6 |
| 42.5° | 18015.7 | 18100.9 | 18747.4 | 19905.3 | 21027.8 | 22334.9 | 23627.8 | 23706.0 | 24402.2 | 26725.2 | 23031.1 |
| 45° | 18825.5 | 19031.6 | 19791.7 | 21105.9 | 22114.7 | 23258.4 | 23777.0 | 24096.7 | 24601.1 | 27499.5 | 23947.5 |
| 47.5° | 19962.2 | 20154.0 | 20779.1 | 22065.0 | 23244.2 | 24068.3 | 24466.1 | 24778.7 | 25077.0 | 28174.4 | 24537.1 |
| 50° | 21169.9 | 21205.4 | 21965.5 | 23130.5 | 23997.2 | 24984.7 | 25751.9 | 25858.5 | 25702.2 | 28955.8 | 25538.8 |
| 52.5° | 22057.8 | 22171.5 | 22761.1 | 23897.8 | 25190.7 | 26405.5 | 27456.9 | 27570.5 | 27265.1 | 29247.1 | 25879.8 |
| 55° | 20587.3 | 20523.4 | 21482.4 | 22995.6 | 25993.5 | 28522.5 | 30049.8 | 30135.1 | 28401.7 | 30149.3 | 26995.1 |
| 57.5° | 15912.9 | 16218.4 | 17035.3 | 18861.1 | 23095.0 | 29460.2 | 32053.1 | 31747.7 | 29765.7 | 30603.9 | 27705.5 |
| 60° | 11565.3 | 11494.2 | 12041.2 | 13263.1 | 17404.7 | 25389.6 | 30305.6 | 30618.1 | 28650.3 | 27584.7 | 22846.4 |
| 62.5° | 9419.9 | 9320.4 | 9363.0 | 9405.7 | 11231.4 | 16850.6 | 22434.4 | 22427.3 | 22065.0 | 19827.2 | 15408.5 |
| 65° | 7530.2 | 7764.6 | 7786.0 | 8105.6 | 8340.1 | 10066.3 | 13000.3 | 13696.5 | 11927.6 | 9782.2 | 7096.9 |
| 67.5° | 5676.1 | 5590.8 | 5875.0 | 7011.6 | 7452.1 | 7267.4 | 7096.9 | 7175.0 | 5100.7 | 3679.9 | 3466.7 |
| 70° | 3346.0 | 3310.5 | 3651.4 | 4887.5 | 6137.8 | 5775.5 | 5349.3 | 5356.4 | 3502.3 | 2571.6 | 2862.9 |
| 72.5° | 1832.8 | 1825.7 | 1896.8 | 2479.3 | 3488.1 | 3623.0 | 3211.0 | 3310.5 | 2088.6 | 2081.5 | 2237.8 |
| 75° | 1023.0 | 1001.7 | 980.3 | 1094.0 | 1257.4 | 1328.4 | 1356.9 | 1371.1 | 1435.0 | 1605.5 | 1669.4 |
| 77.5° | 376.5 | 362.3 | 362.3 | 419.1 | 532.8 | 667.8 | 845.4 | 859.6 | 1015.9 | 1165.1 | 1229.0 |
| 80° | 127.9 | 142.1 | 191.8 | 262.8 | 355.2 | 476.0 | 575.4 | 589.6 | 717.5 | 817.0 | 838.3 |
| 82.5° | 78.1 | 85.2 | 127.9 | 184.7 | 255.7 | 333.9 | 426.2 | 433.3 | 532.8 | 596.7 | 625.1 |
| 85° | 35.5 | 42.6 | 71.0 | 113.7 | 163.4 | 220.2 | 227.3 | 227.3 | 220.2 | 227.3 | 213.1 |
| 87.5° | 0.0 | 0.0 | 14.2 | 14.2 | 14.2 | 21.3 | 28.4 | 21.3 | 35.5 | 42.6 | 42.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 | 21482.4 |
| 2.5° | 21290.6 | 21212.5 | 20970.9 | 20757.8 | 20693.9 | 20409.7 | 19990.6 | 20040.3 | 19734.8 | 19876.9 | 19727.7 |
| 5° | 20999.4 | 20736.5 | 20118.5 | 19855.6 | 19166.5 | 18854.0 | 18640.8 | 18108.0 | 17859.4 | 17809.7 | 17596.6 |
| 7.5° | 20253.4 | 20090.0 | 19315.7 | 18605.3 | 17873.6 | 17248.5 | 16445.7 | 15898.7 | 15508.0 | 15401.4 | 15088.8 |
| 10° | 19663.8 | 19301.5 | 18228.8 | 17149.0 | 16104.7 | 15017.8 | 13973.5 | 13156.6 | 12758.7 | 12297.0 | 12140.7 |
| 12.5° | 19081.3 | 18534.3 | 17085.1 | 15699.8 | 14350.0 | 12979.0 | 11714.5 | 10719.9 | 9853.2 | 9647.2 | 9576.2 |
| 15° | 18719.0 | 17767.0 | 16062.1 | 14392.7 | 12474.6 | 10684.4 | 9419.9 | 8766.3 | 8233.5 | 8013.3 | 8169.6 |
| 17.5° | 18243.0 | 17134.8 | 15081.7 | 12858.2 | 10748.3 | 9100.2 | 8041.7 | 7636.8 | 7445.0 | 7466.3 | 7402.3 |
| 20° | 17646.3 | 16538.1 | 13795.9 | 11465.8 | 9206.8 | 7892.5 | 7288.7 | 7139.5 | 7167.9 | 7217.6 | 7196.3 |
| 22.5° | 17220.0 | 15813.5 | 12865.3 | 10045.0 | 7956.5 | 7224.7 | 6976.1 | 6869.5 | 6961.9 | 7004.5 | 6969.0 |
| 25° | 16893.3 | 15195.4 | 11735.8 | 8787.6 | 7231.8 | 6848.2 | 6734.6 | 6727.5 | 6869.5 | 6926.4 | 6890.9 |
| 27.5° | 16594.9 | 14620.0 | 10613.3 | 7828.6 | 6748.8 | 6557.0 | 6521.5 | 6606.7 | 6699.1 | 6755.9 | 6805.6 |
| 30° | 16417.3 | 14179.5 | 9562.0 | 7025.8 | 6507.2 | 6414.9 | 6351.0 | 6429.1 | 6478.8 | 6535.7 | 6507.2 |
| 32.5° | 16587.8 | 13867.0 | 8546.1 | 6571.2 | 6308.3 | 6216.0 | 6301.2 | 6251.5 | 6336.7 | 6386.5 | 6308.3 |
| 35° | 17120.6 | 13589.9 | 7821.5 | 6329.6 | 6081.0 | 6116.5 | 6130.7 | 6109.4 | 6144.9 | 6102.3 | 6194.7 |
| 37.5° | 17646.3 | 13490.5 | 7153.7 | 6123.6 | 5974.4 | 5974.4 | 5960.2 | 5917.6 | 5988.7 | 5974.4 | 6017.1 |
| 40° | 18314.1 | 13554.4 | 6585.4 | 5903.4 | 5875.0 | 5860.8 | 5803.9 | 5796.8 | 5768.4 | 5775.5 | 5789.7 |
| 42.5° | 18896.6 | 13696.5 | 6258.6 | 5761.3 | 5782.6 | 5811.1 | 5704.5 | 5619.2 | 5654.8 | 5583.7 | 5583.7 |
| 45° | 19514.6 | 13824.3 | 5967.3 | 5661.9 | 5640.6 | 5633.5 | 5548.2 | 5498.5 | 5470.1 | 5477.2 | 5541.1 |
| 47.5° | 20487.9 | 14009.0 | 5747.1 | 5526.9 | 5541.1 | 5434.5 | 5413.2 | 5349.3 | 5377.7 | 5420.3 | 5427.4 |
| 50° | 21177.0 | 14399.8 | 5576.6 | 5370.6 | 5420.3 | 5349.3 | 5221.4 | 5193.0 | 5193.0 | 5264.0 | 5249.8 |
| 52.5° | 21660.0 | 14946.8 | 5413.2 | 5200.1 | 5221.4 | 5164.6 | 5122.0 | 5058.0 | 5015.4 | 5114.9 | 5164.6 |
| 55° | 23137.7 | 15856.1 | 5370.6 | 5058.0 | 5050.9 | 4994.1 | 4916.0 | 4852.0 | 4830.7 | 4844.9 | 4944.4 |
| 57.5° | 22995.6 | 15571.9 | 5235.6 | 4809.4 | 4795.2 | 4717.0 | 4638.9 | 4617.6 | 4610.5 | 4624.7 | 4653.1 |
| 60° | 18669.3 | 11501.3 | 4674.4 | 4525.2 | 4503.9 | 4489.7 | 4411.6 | 4326.3 | 4283.7 | 4326.3 | 4290.8 |
| 62.5° | 12353.8 | 7700.7 | 4120.3 | 4184.2 | 4198.5 | 4162.9 | 4035.1 | 3949.8 | 3964.0 | 4013.7 | 3935.6 |
| 65° | 6066.8 | 4525.2 | 3736.7 | 3907.2 | 3921.4 | 3821.9 | 3701.2 | 3601.7 | 3552.0 | 3594.6 | 3559.1 |
| 67.5° | 3466.7 | 3459.6 | 3424.1 | 3601.7 | 3594.6 | 3495.2 | 3303.3 | 3218.1 | 3132.9 | 3147.1 | 3125.7 |
| 70° | 2941.0 | 2997.9 | 3068.9 | 3175.5 | 3168.4 | 3054.7 | 2827.4 | 2763.4 | 2642.7 | 2628.5 | 2593.0 |
| 72.5° | 2315.9 | 2415.4 | 2571.6 | 2649.8 | 2585.8 | 2443.8 | 2294.6 | 2188.0 | 2081.5 | 2017.5 | 2038.8 |
| 75° | 1719.2 | 1861.2 | 1946.5 | 1996.2 | 1896.8 | 1818.6 | 1697.9 | 1570.0 | 1442.1 | 1385.3 | 1364.0 |
| 77.5° | 1250.3 | 1292.9 | 1371.1 | 1406.6 | 1342.7 | 1264.5 | 1193.5 | 1065.6 | 944.8 | 866.7 | 845.4 |
| 80° | 873.8 | 902.2 | 959.0 | 959.0 | 959.0 | 923.5 | 831.2 | 703.3 | 625.1 | 554.1 | 539.9 |
| 82.5° | 610.9 | 639.4 | 696.2 | 667.8 | 660.7 | 618.0 | 561.2 | 461.8 | 376.5 | 326.8 | 312.6 |
| 85° | 213.1 | 234.4 | 284.2 | 341.0 | 362.3 | 355.2 | 319.7 | 255.7 | 198.9 | 163.4 | 149.2 |
| 87.5° | 49.7 | 49.7 | 56.8 | 49.7 | 49.7 | 56.8 | 49.7 | 49.7 | 49.7 | 35.5 | 28.4 |
| 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)