

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: P383712

Luminaire Tested: **GLEON-SA9D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49697.1 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

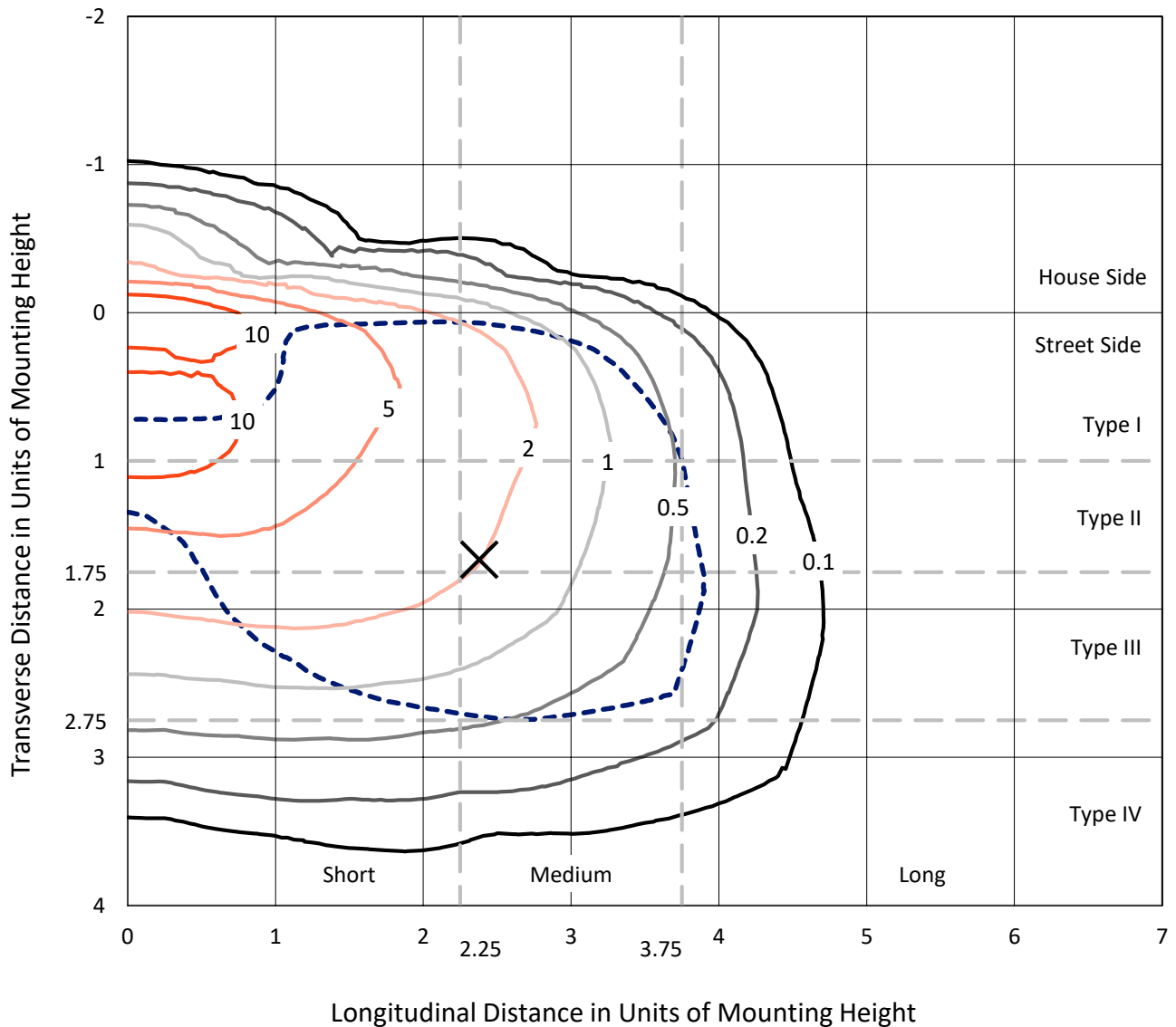




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Iso-Footcandle Lines of Horizontal Illumination

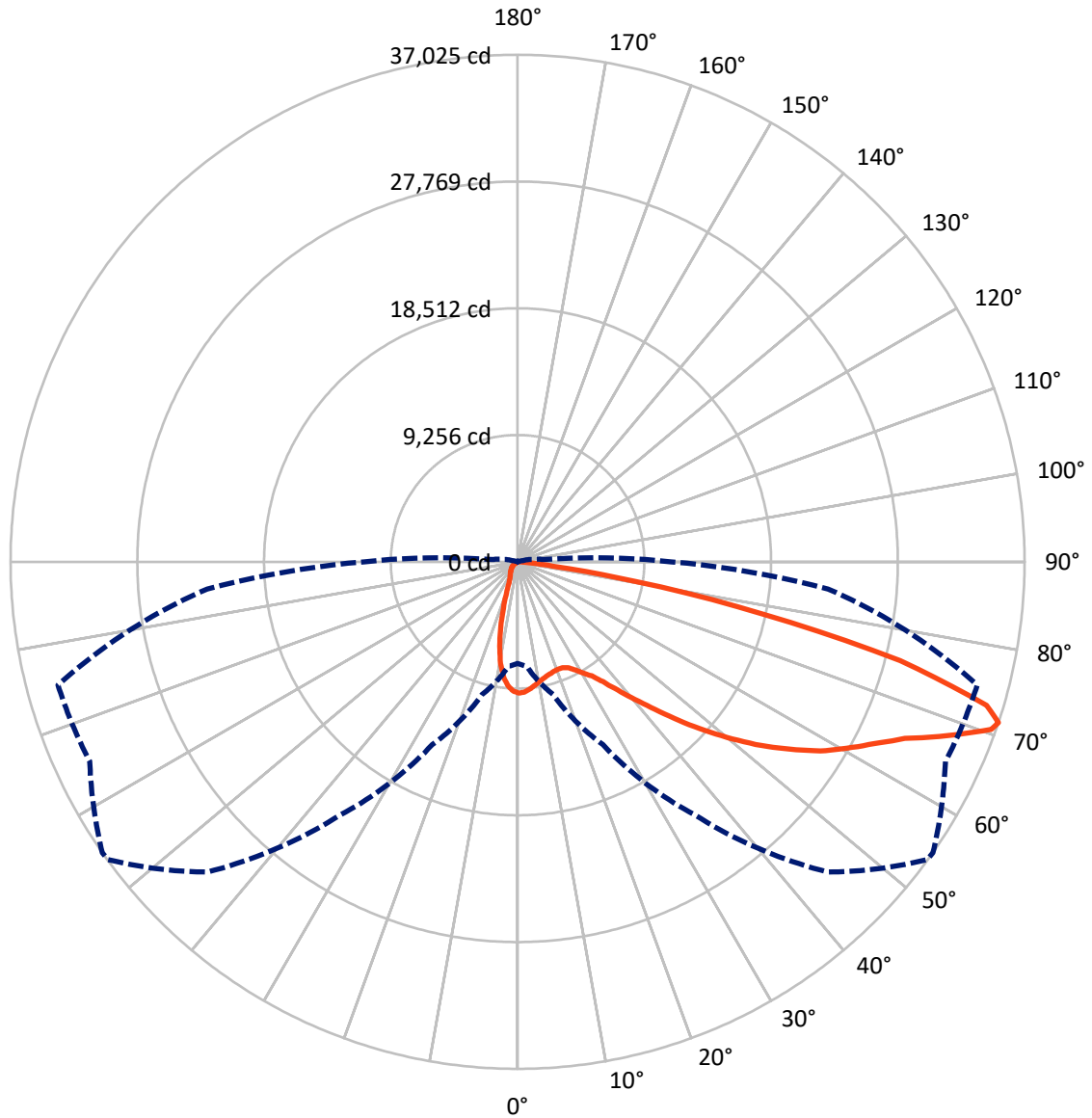
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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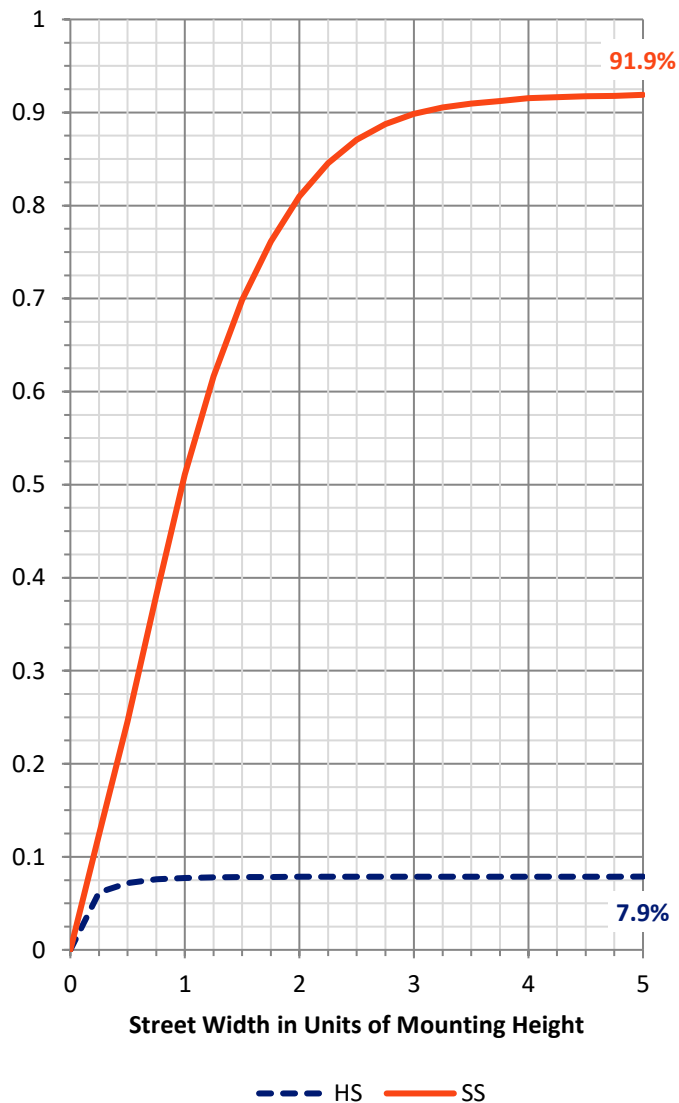
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3934.6 | 0.0 | 3934.6 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 45762.5 | 0.0 | 45762.5 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 49697.1 | 0.0 | 49697.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 817.2 | 1.6 |
| 10°-20° | 1844.9 | 3.7 |
| 20°-30° | 2964.8 | 6.0 |
| 30°-40° | 5037.3 | 10.1 |
| 40°-50° | 7818.5 | 15.7 |
| 50°-60° | 10511.7 | 21.2 |
| 60°-70° | 12859.3 | 25.9 |
| 70°-80° | 7518.5 | 15.1 |
| 80°-90° | 325.0 | 0.7 |
| 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° | 49697.1 | 100.0 |
| 0°-180° | 49697.1 | 100.0 |

Coefficient of Utilization

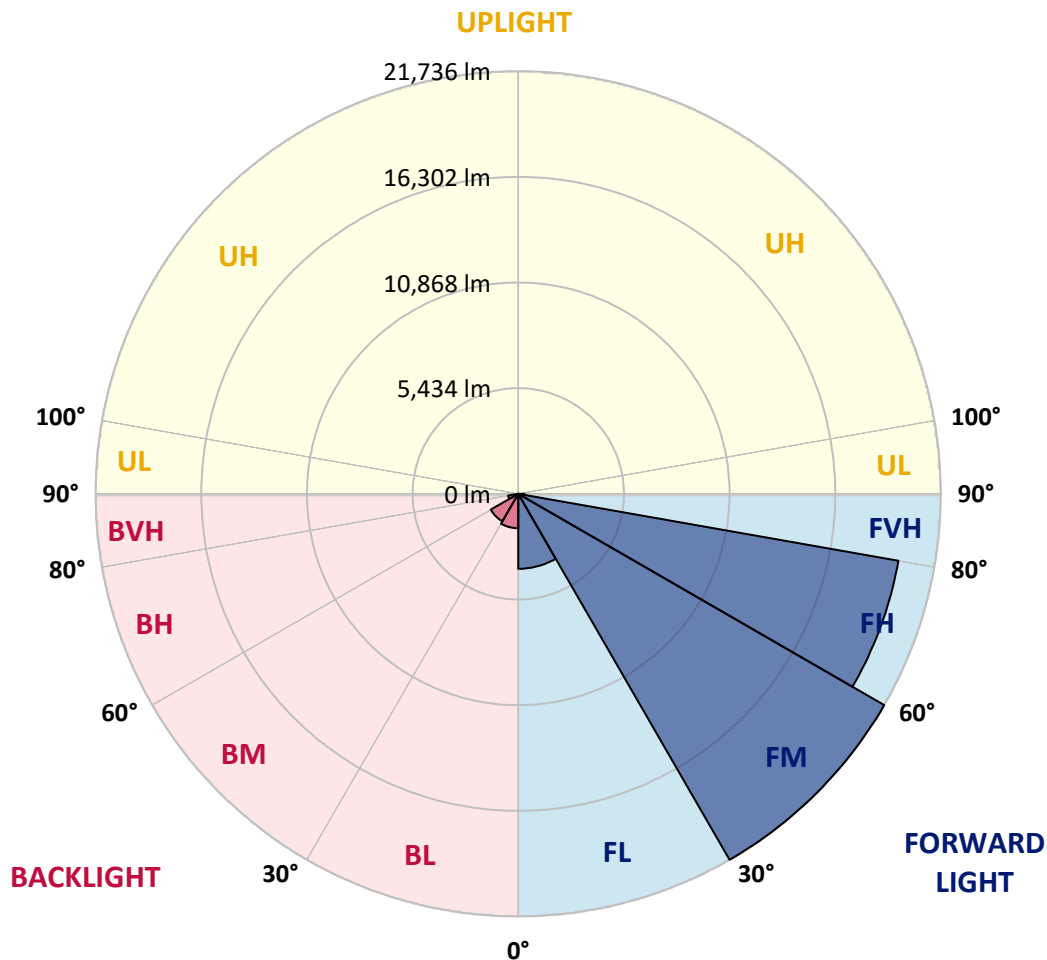


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3855.8 | 7.8 | | | |
| FM (30°-60°) | 21736.1 | 43.7 | | | |
| FH (60°-80°) | 19850.7 | 39.9 | | | G5 |
| FVH (80°-90°) | 319.9 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1771.0 | 3.6 | B3/2500 | | |
| BM (30°-60°) | 1631.4 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 527.2 | 1.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.1 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 |
| 2.5° | 9303.1 | 9314.3 | 9354.4 | 9372.3 | 9414.7 | 9486.0 | 9521.8 | 9524.0 | 9582.1 | 9604.3 | 9622.2 |
| 5° | 8644.9 | 8711.7 | 8778.7 | 8850.1 | 8979.6 | 9151.3 | 9321.0 | 9336.5 | 9524.0 | 9662.4 | 9736.0 |
| 7.5° | 8078.0 | 8138.3 | 8218.6 | 8332.4 | 8515.4 | 8785.4 | 9068.8 | 9102.2 | 9457.1 | 9771.7 | 9936.8 |
| 10° | 7495.6 | 7544.7 | 7660.8 | 7828.1 | 8080.2 | 8441.8 | 8823.3 | 8879.1 | 9396.8 | 9919.0 | 10209.1 |
| 12.5° | 6873.0 | 6902.0 | 7042.6 | 7283.6 | 7654.1 | 8113.7 | 8615.8 | 8689.5 | 9358.9 | 10088.6 | 10530.4 |
| 15° | 6399.9 | 6413.3 | 6547.2 | 6797.1 | 7221.1 | 7819.1 | 8455.1 | 8544.4 | 9367.8 | 10291.6 | 10880.8 |
| 17.5° | 6279.5 | 6286.1 | 6357.5 | 6529.3 | 6904.3 | 7555.9 | 8327.9 | 8437.3 | 9394.6 | 10490.3 | 11233.3 |
| 20° | 6768.2 | 6721.3 | 6647.6 | 6620.9 | 6781.5 | 7397.4 | 8252.1 | 8374.8 | 9430.3 | 10666.5 | 11550.3 |
| 22.5° | 8109.2 | 7970.9 | 7665.1 | 7256.8 | 7009.2 | 7408.6 | 8272.1 | 8394.9 | 9544.1 | 10883.0 | 11916.2 |
| 25° | 10099.7 | 9907.8 | 9387.9 | 8584.6 | 7812.4 | 7729.9 | 8439.5 | 8564.5 | 9765.0 | 11141.9 | 12266.5 |
| 27.5° | 12364.7 | 12175.0 | 11539.1 | 10392.1 | 9075.5 | 8365.9 | 8823.3 | 8939.4 | 10093.0 | 11371.7 | 12534.3 |
| 30° | 14533.7 | 14480.2 | 13730.4 | 12427.2 | 10664.4 | 9396.8 | 9318.7 | 9416.9 | 10336.3 | 11510.0 | 12746.3 |
| 32.5° | 16372.5 | 16287.6 | 15685.2 | 14417.7 | 12483.0 | 10635.3 | 9901.1 | 9930.1 | 10519.2 | 11688.6 | 13023.0 |
| 35° | 18077.3 | 17972.4 | 17443.6 | 16245.3 | 14348.5 | 12148.2 | 10798.2 | 10755.8 | 10918.7 | 12047.8 | 13424.7 |
| 37.5° | 19565.8 | 19661.7 | 19074.8 | 17934.5 | 16022.2 | 13721.4 | 12007.6 | 11880.5 | 11543.6 | 12632.5 | 14007.1 |
| 40° | 20811.0 | 20811.0 | 20505.2 | 19554.6 | 17829.6 | 15348.2 | 13375.6 | 13208.2 | 12483.0 | 13534.0 | 14745.7 |
| 42.5° | 21259.4 | 21355.4 | 21469.2 | 20931.4 | 19447.5 | 17039.7 | 14899.7 | 14725.6 | 13806.3 | 14812.6 | 15678.5 |
| 45° | 21286.2 | 21438.0 | 22020.4 | 22018.2 | 20909.1 | 18720.0 | 16618.0 | 16535.3 | 15502.2 | 16455.0 | 16834.4 |
| 47.5° | 20909.1 | 21098.8 | 22058.3 | 22602.8 | 22067.2 | 20284.3 | 18496.9 | 18394.2 | 17494.9 | 18467.8 | 18043.9 |
| 50° | 20326.6 | 20536.4 | 21652.2 | 22832.7 | 22855.0 | 21645.5 | 20476.2 | 20322.3 | 19688.4 | 20768.5 | 19293.5 |
| 52.5° | 19284.6 | 19690.7 | 21288.5 | 22886.2 | 23372.7 | 22821.5 | 22359.6 | 22292.7 | 22143.2 | 22984.4 | 20288.7 |
| 55° | 17055.3 | 17506.1 | 20375.7 | 22904.1 | 23852.5 | 23863.6 | 24124.7 | 24142.5 | 24443.8 | 25055.2 | 21029.6 |
| 57.5° | 16002.0 | 16256.4 | 18782.5 | 22988.8 | 24564.3 | 25046.3 | 25923.3 | 26061.6 | 26528.1 | 27021.2 | 21875.3 |
| 60° | 15339.3 | 15640.6 | 17997.0 | 22872.8 | 25682.3 | 26597.2 | 27590.2 | 27637.1 | 28136.9 | 29049.6 | 23020.1 |
| 62.5° | 14810.4 | 15107.2 | 17501.6 | 22426.5 | 26938.6 | 28462.7 | 29219.2 | 29223.7 | 29598.5 | 31466.3 | 24321.0 |
| 65° | 13505.0 | 13755.0 | 16499.7 | 21924.4 | 27768.7 | 30308.2 | 31111.5 | 31082.5 | 31388.2 | 34014.7 | 25831.8 |
| 67.5° | 11617.1 | 11809.0 | 14453.4 | 20021.0 | 27456.3 | 31986.3 | 33967.9 | 33871.8 | 33501.4 | 36217.2 | 26425.4 |
| 70° | 8981.8 | 9050.9 | 11391.8 | 16684.9 | 24528.6 | 32631.2 | 36728.1 | 36679.0 | 34798.0 | 35822.2 | 24249.7 |
| 71° | 7424.2 | 7651.8 | 10039.5 | 14725.6 | 22567.1 | 32035.4 | 36995.9 | 37024.9 | 34472.1 | 34746.6 | 22752.3 |
| 72.5° | 4311.2 | 4505.4 | 7276.9 | 11309.2 | 19159.6 | 29549.4 | 35607.9 | 35817.7 | 32950.2 | 31604.6 | 19434.1 |
| 75° | 923.8 | 988.6 | 2697.9 | 5473.9 | 10539.3 | 20710.5 | 28105.7 | 28853.2 | 26856.1 | 21500.5 | 11713.1 |
| 77.5° | 642.7 | 694.0 | 1156.0 | 2483.7 | 3483.3 | 10233.6 | 17459.3 | 18302.7 | 16044.4 | 8080.2 | 3748.9 |
| 80° | 508.8 | 566.8 | 901.6 | 1227.3 | 941.7 | 3300.4 | 8178.4 | 8693.9 | 5351.1 | 1803.0 | 631.5 |
| 82.5° | 283.4 | 336.9 | 702.9 | 662.8 | 361.5 | 627.0 | 2289.6 | 2588.5 | 1071.1 | 363.8 | 149.5 |
| 85° | 82.5 | 100.4 | 453.0 | 482.0 | 154.0 | 120.5 | 390.5 | 484.2 | 203.1 | 95.9 | 67.0 |
| 87.5° | 0.0 | 0.0 | 218.7 | 185.2 | 44.6 | 17.9 | 35.7 | 40.1 | 40.1 | 40.1 | 44.6 |
| 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° | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 | 9584.2 |
| 2.5° | 9622.2 | 9637.8 | 9582.1 | 9508.4 | 9430.3 | 9334.4 | 9234.0 | 9155.8 | 9153.6 | 9115.7 | 9077.7 |
| 5° | 9740.4 | 9731.5 | 9577.6 | 9343.2 | 9066.6 | 8778.7 | 8504.2 | 8194.1 | 8091.4 | 7964.2 | 7921.8 |
| 7.5° | 9959.2 | 9896.7 | 9570.9 | 9057.6 | 8450.6 | 7848.2 | 7225.5 | 6598.5 | 6330.7 | 6089.7 | 6047.3 |
| 10° | 10233.6 | 10115.4 | 9528.5 | 8629.2 | 7515.6 | 6404.4 | 5464.9 | 4612.5 | 4237.6 | 3949.8 | 3936.3 |
| 12.5° | 10519.2 | 10338.5 | 9410.2 | 7982.1 | 6290.6 | 4728.5 | 3646.3 | 2807.2 | 2494.8 | 2293.9 | 2311.8 |
| 15° | 10818.2 | 10548.3 | 9155.8 | 7109.6 | 4895.9 | 3208.9 | 2240.5 | 1747.3 | 1622.3 | 1571.0 | 1584.4 |
| 17.5° | 11124.0 | 10693.3 | 8801.0 | 6058.5 | 3519.1 | 2070.8 | 1550.9 | 1412.5 | 1412.5 | 1423.7 | 1428.2 |
| 20° | 11389.6 | 10771.4 | 8278.8 | 4880.3 | 2385.5 | 1508.5 | 1356.7 | 1336.7 | 1347.9 | 1365.6 | 1367.9 |
| 22.5° | 11652.8 | 10775.9 | 7598.3 | 3686.4 | 1669.1 | 1321.0 | 1292.1 | 1283.1 | 1289.8 | 1309.8 | 1312.1 |
| 25° | 11867.1 | 10722.3 | 6745.8 | 2622.0 | 1332.2 | 1245.2 | 1231.8 | 1227.3 | 1231.8 | 1256.3 | 1256.3 |
| 27.5° | 11954.1 | 10528.2 | 5705.9 | 1843.3 | 1193.9 | 1160.3 | 1156.0 | 1160.3 | 1167.0 | 1184.9 | 1187.2 |
| 30° | 11963.0 | 10189.0 | 4572.3 | 1334.4 | 1082.3 | 1046.6 | 1055.5 | 1071.1 | 1064.4 | 1059.9 | 1064.4 |
| 32.5° | 11985.4 | 9796.2 | 3467.8 | 1097.9 | 988.6 | 932.8 | 921.6 | 921.6 | 894.8 | 879.2 | 870.3 |
| 35° | 12059.0 | 9334.4 | 2514.9 | 986.3 | 892.6 | 827.9 | 785.5 | 736.4 | 685.1 | 658.3 | 651.6 |
| 37.5° | 12175.0 | 8850.1 | 1800.8 | 912.6 | 807.8 | 734.2 | 653.9 | 566.8 | 493.2 | 473.0 | 473.0 |
| 40° | 12387.1 | 8350.3 | 1332.2 | 854.7 | 740.9 | 649.4 | 528.8 | 415.1 | 348.1 | 336.9 | 336.9 |
| 42.5° | 12721.8 | 7823.6 | 1062.2 | 803.4 | 682.8 | 562.4 | 403.9 | 301.3 | 252.2 | 245.5 | 243.2 |
| 45° | 13069.9 | 7243.4 | 928.3 | 754.3 | 620.3 | 462.0 | 299.0 | 223.1 | 194.1 | 187.4 | 187.4 |
| 47.5° | 13418.0 | 6625.4 | 863.5 | 707.4 | 560.1 | 359.3 | 223.1 | 176.2 | 162.9 | 162.9 | 165.2 |
| 50° | 13712.6 | 5980.4 | 816.7 | 656.1 | 482.0 | 272.2 | 176.2 | 149.5 | 145.0 | 154.0 | 156.2 |
| 52.5° | 13786.2 | 5346.6 | 758.7 | 591.3 | 386.0 | 207.5 | 145.0 | 131.6 | 131.6 | 131.6 | 131.6 |
| 55° | 13741.5 | 4855.7 | 682.8 | 511.0 | 285.6 | 165.2 | 124.9 | 116.1 | 113.8 | 113.8 | 113.8 |
| 57.5° | 13893.3 | 4565.6 | 546.7 | 397.2 | 205.3 | 133.9 | 109.4 | 102.7 | 98.2 | 95.9 | 95.9 |
| 60° | 14199.0 | 4375.9 | 390.5 | 285.6 | 154.0 | 111.6 | 93.7 | 87.0 | 80.3 | 75.8 | 75.8 |
| 62.5° | 14605.2 | 4210.9 | 290.1 | 212.0 | 118.3 | 89.2 | 78.1 | 71.4 | 62.5 | 58.0 | 58.0 |
| 65° | 14917.5 | 3916.3 | 221.0 | 158.5 | 89.2 | 71.4 | 60.3 | 58.0 | 44.6 | 40.1 | 37.9 |
| 67.5° | 14440.0 | 3269.2 | 178.5 | 116.1 | 67.0 | 55.8 | 46.9 | 44.6 | 26.7 | 22.4 | 22.4 |
| 70° | 12384.8 | 2276.1 | 142.8 | 84.8 | 49.1 | 44.6 | 37.9 | 29.0 | 20.1 | 17.9 | 17.9 |
| 71° | 11231.1 | 1901.2 | 129.4 | 71.4 | 42.4 | 42.4 | 35.7 | 24.6 | 17.9 | 15.6 | 15.6 |
| 72.5° | 9329.9 | 1350.1 | 109.4 | 55.8 | 37.9 | 44.6 | 37.9 | 22.4 | 17.9 | 15.6 | 13.4 |
| 75° | 5415.8 | 564.6 | 75.8 | 37.9 | 29.0 | 53.6 | 49.1 | 20.1 | 13.4 | 11.2 | 11.2 |
| 77.5° | 1629.0 | 207.5 | 42.4 | 24.6 | 22.4 | 46.9 | 55.8 | 17.9 | 6.7 | 2.2 | 2.2 |
| 80° | 296.8 | 89.2 | 26.7 | 15.6 | 15.6 | 29.0 | 42.4 | 8.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 104.9 | 44.6 | 15.6 | 8.9 | 6.7 | 13.4 | 20.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 60.3 | 31.2 | 8.9 | 4.5 | 0.0 | 2.2 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 40.1 | 8.9 | 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)