

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: P526031

Luminaire Tested: **GALN-SA1A-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

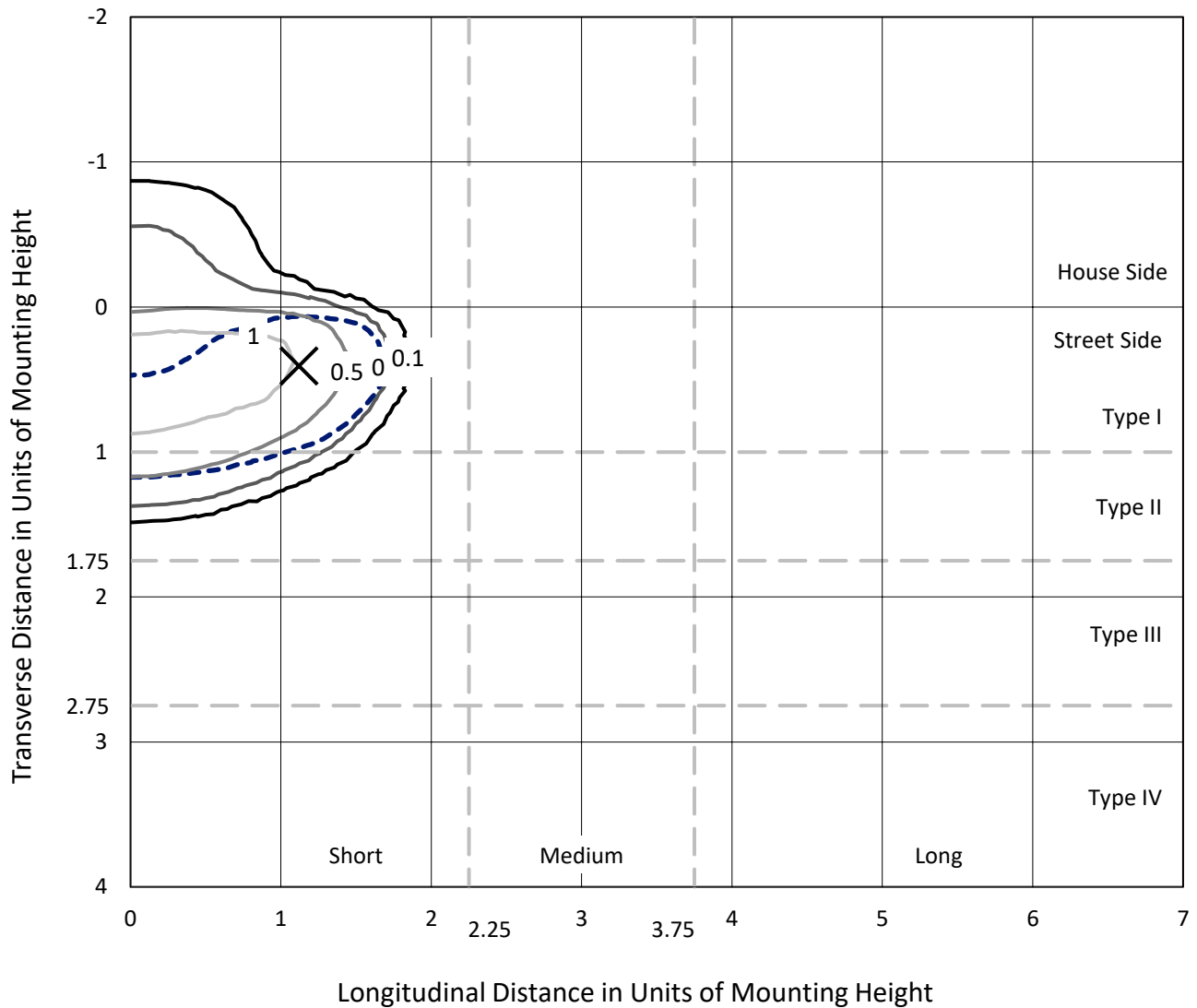
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

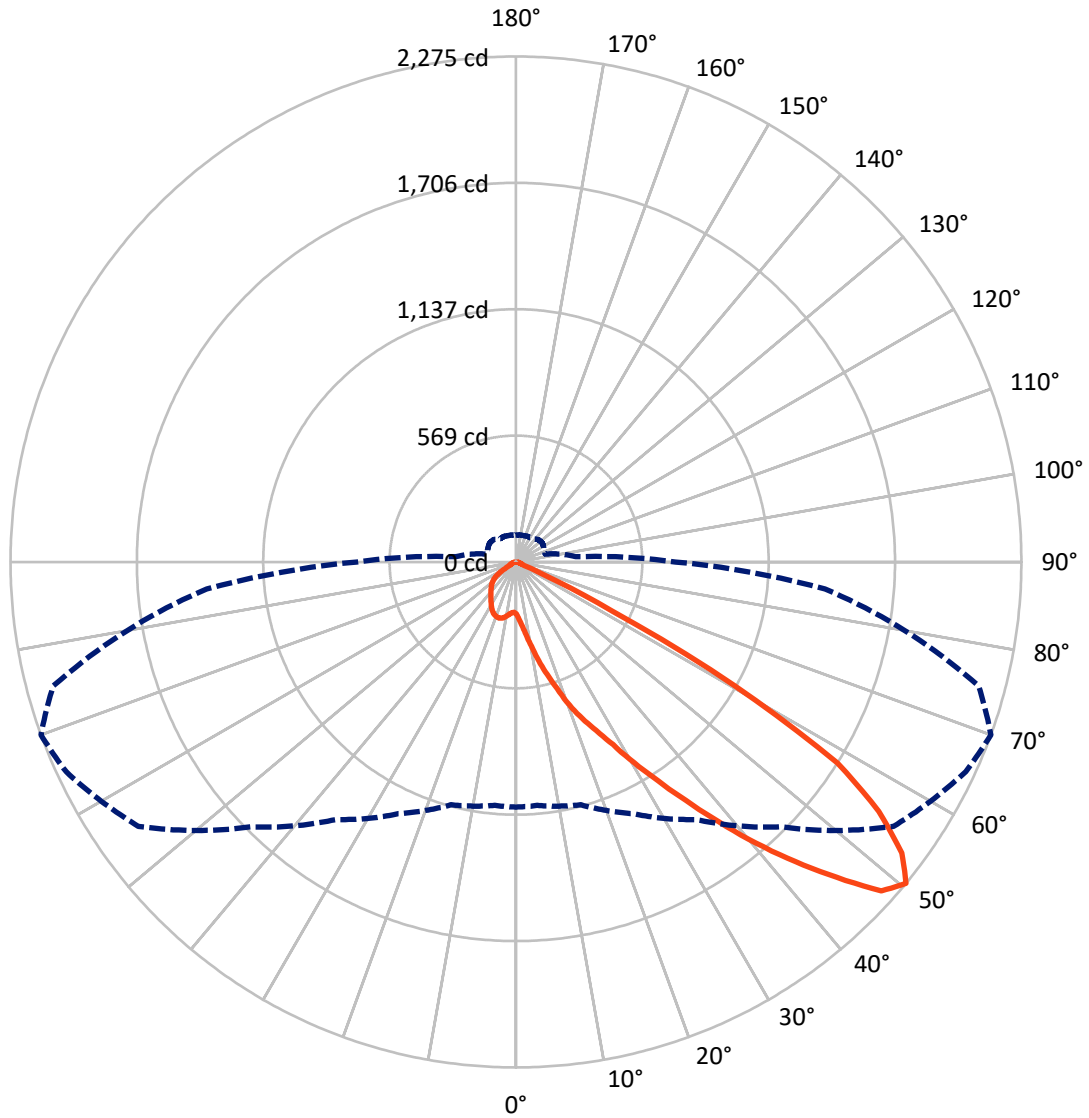
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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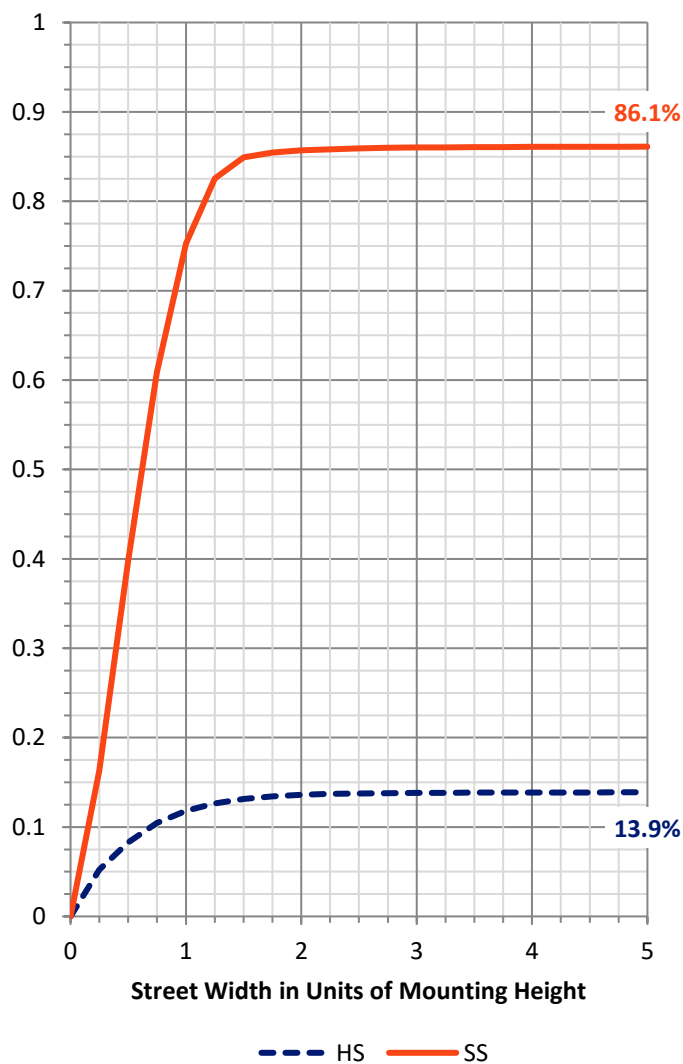
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 314.2 | 0.0 | 314.2 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 1935.8 | 0.0 | 1935.8 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 2250.0 | 0.0 | 2250.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.3 | 1.3 |
| 10°-20° | 131.1 | 5.8 |
| 20°-30° | 275.0 | 12.2 |
| 30°-40° | 474.0 | 21.1 |
| 40°-50° | 692.8 | 30.8 |
| 50°-60° | 539.6 | 24.0 |
| 60°-70° | 91.4 | 4.1 |
| 70°-80° | 12.6 | 0.6 |
| 80°-90° | 3.2 | 0.1 |
| 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° | 2250.0 | 100.0 |
| 0°-180° | 2250.0 | 100.0 |

Coefficient of Utilization



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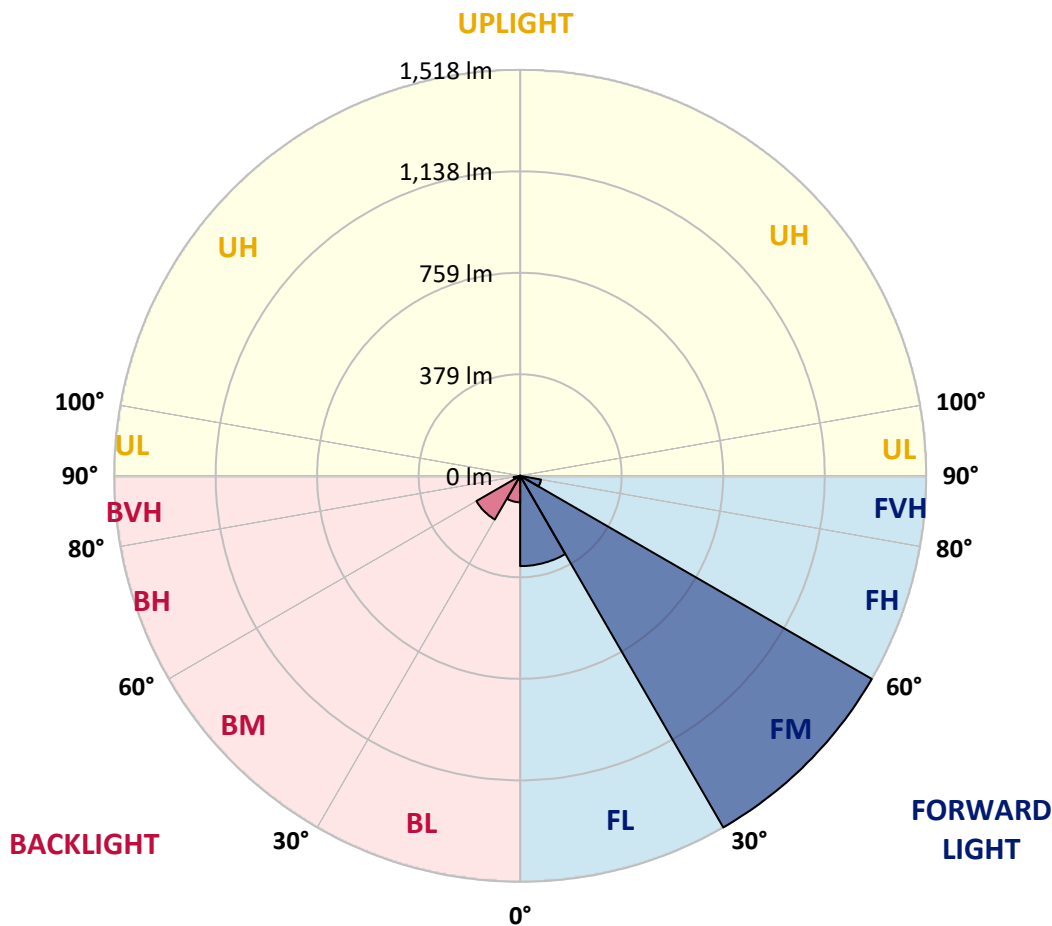
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 337.5 | 15.0 | | | |
| FM (30°-60°) | 1517.6 | 67.4 | | | |
| FH (60°-80°) | 79.2 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 1.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 98.9 | 4.4 | B0/110 | | |
| BM (30°-60°) | 188.8 | 8.4 | B0/220 | | |
| BH (60°-80°) | 24.8 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 |
| 2.5° | 305.2 | 303.0 | 298.2 | 289.3 | 285.6 | 276.7 | 271.5 | 261.5 | 255.3 | 248.2 | 240.5 |
| 5° | 429.9 | 418.4 | 411.4 | 401.4 | 372.1 | 354.0 | 324.1 | 298.5 | 286.7 | 273.7 | 256.0 |
| 7.5° | 558.6 | 551.2 | 541.6 | 520.1 | 500.1 | 462.4 | 411.0 | 354.8 | 330.7 | 308.5 | 273.4 |
| 10° | 665.1 | 644.4 | 643.3 | 627.4 | 605.6 | 560.4 | 498.7 | 428.7 | 385.8 | 353.3 | 298.2 |
| 12.5° | 739.5 | 720.6 | 729.1 | 727.3 | 706.9 | 665.5 | 594.1 | 501.6 | 456.9 | 406.2 | 323.7 |
| 15° | 807.2 | 799.4 | 796.8 | 794.6 | 786.5 | 755.8 | 691.8 | 590.4 | 525.7 | 464.6 | 352.5 |
| 17.5° | 873.4 | 853.4 | 863.0 | 864.9 | 864.2 | 836.4 | 776.5 | 674.8 | 598.5 | 526.4 | 382.9 |
| 20° | 932.2 | 934.1 | 921.1 | 918.5 | 916.3 | 915.2 | 856.8 | 758.4 | 688.1 | 591.1 | 422.5 |
| 22.5° | 1007.7 | 994.7 | 1006.2 | 998.8 | 984.4 | 975.5 | 930.7 | 832.3 | 765.8 | 669.2 | 462.8 |
| 25° | 1096.8 | 1107.2 | 1080.2 | 1077.2 | 1061.3 | 1030.6 | 990.3 | 915.2 | 840.5 | 741.7 | 506.4 |
| 27.5° | 1206.7 | 1188.6 | 1181.6 | 1165.3 | 1136.4 | 1123.5 | 1076.1 | 1000.7 | 930.7 | 817.9 | 548.6 |
| 30° | 1301.0 | 1296.2 | 1261.1 | 1241.9 | 1216.7 | 1216.3 | 1150.1 | 1116.4 | 1048.4 | 937.4 | 606.7 |
| 32.5° | 1378.0 | 1356.9 | 1344.0 | 1330.6 | 1310.3 | 1315.8 | 1260.0 | 1242.2 | 1173.8 | 1048.4 | 675.1 |
| 35° | 1429.4 | 1414.2 | 1406.5 | 1386.1 | 1380.2 | 1405.0 | 1381.7 | 1374.3 | 1318.1 | 1204.5 | 755.4 |
| 37.5° | 1445.7 | 1450.5 | 1449.0 | 1423.5 | 1436.1 | 1503.0 | 1533.0 | 1513.8 | 1484.2 | 1369.1 | 842.3 |
| 40° | 1460.1 | 1463.4 | 1456.0 | 1486.0 | 1521.9 | 1598.1 | 1706.5 | 1674.7 | 1663.6 | 1535.9 | 963.3 |
| 42.5° | 1468.3 | 1465.7 | 1465.7 | 1517.5 | 1571.8 | 1725.0 | 1874.1 | 1853.0 | 1844.5 | 1713.5 | 1103.1 |
| 45° | 1433.1 | 1408.0 | 1435.0 | 1505.2 | 1614.7 | 1787.5 | 2008.0 | 2037.2 | 2025.0 | 1924.7 | 1266.6 |
| 47.5° | 1301.8 | 1317.3 | 1332.5 | 1426.4 | 1562.6 | 1768.3 | 2090.1 | 2189.6 | 2212.2 | 2102.3 | 1373.9 |
| 50° | 1103.1 | 1099.8 | 1131.2 | 1249.6 | 1415.0 | 1685.4 | 2074.2 | 2233.6 | 2274.7 | 2155.6 | 1396.5 |
| 52.5° | 802.4 | 826.8 | 860.8 | 978.5 | 1174.5 | 1470.8 | 1868.9 | 2120.1 | 2174.8 | 2090.1 | 1381.7 |
| 55° | 467.2 | 440.2 | 516.8 | 616.3 | 801.3 | 1109.4 | 1580.0 | 1879.2 | 1980.6 | 1971.0 | 1307.0 |
| 57.5° | 187.2 | 181.3 | 207.5 | 279.7 | 418.0 | 687.7 | 1149.0 | 1544.1 | 1706.5 | 1805.3 | 1148.6 |
| 60° | 82.1 | 80.3 | 94.3 | 113.9 | 170.9 | 317.0 | 628.5 | 960.3 | 1129.8 | 1261.5 | 790.5 |
| 62.5° | 59.2 | 58.4 | 65.5 | 72.5 | 90.3 | 138.0 | 264.1 | 386.9 | 482.4 | 582.6 | 354.0 |
| 65° | 47.7 | 49.6 | 54.4 | 58.1 | 66.6 | 76.6 | 93.2 | 107.6 | 132.1 | 136.9 | 78.1 |
| 67.5° | 38.8 | 40.3 | 44.8 | 48.8 | 50.3 | 41.4 | 42.9 | 37.7 | 37.7 | 33.7 | 27.0 |
| 70° | 28.5 | 28.9 | 34.0 | 38.8 | 31.1 | 16.6 | 29.2 | 29.2 | 26.3 | 25.2 | 22.9 |
| 72.5° | 21.1 | 21.5 | 25.5 | 24.0 | 12.2 | 10.4 | 21.5 | 23.7 | 21.5 | 20.3 | 18.5 |
| 75° | 15.5 | 15.9 | 13.3 | 5.5 | 5.2 | 6.7 | 12.6 | 16.3 | 15.5 | 15.2 | 14.1 |
| 77.5° | 3.0 | 2.2 | 1.8 | 2.6 | 3.7 | 5.5 | 8.1 | 10.0 | 10.4 | 11.1 | 10.4 |
| 80° | 0.4 | 0.4 | 1.1 | 2.2 | 4.1 | 5.9 | 8.5 | 9.6 | 10.0 | 10.4 | 9.6 |
| 82.5° | 0.0 | 0.4 | 1.1 | 2.2 | 4.1 | 5.5 | 7.4 | 8.5 | 9.2 | 9.6 | 9.2 |
| 85° | 0.0 | 0.4 | 0.7 | 1.8 | 3.3 | 4.1 | 3.7 | 2.6 | 2.2 | 2.6 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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° | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 | 233.1 |
| 2.5° | 236.0 | 234.5 | 229.4 | 223.8 | 219.0 | 221.2 | 219.0 | 217.1 | 217.9 | 217.1 | 216.4 |
| 5° | 249.0 | 242.3 | 231.2 | 226.4 | 222.3 | 222.0 | 220.8 | 220.5 | 220.8 | 220.8 | 217.5 |
| 7.5° | 261.2 | 250.4 | 238.6 | 233.4 | 228.6 | 229.0 | 226.4 | 226.4 | 226.0 | 224.2 | 223.4 |
| 10° | 279.7 | 265.2 | 250.1 | 240.8 | 234.9 | 233.8 | 231.2 | 228.6 | 228.6 | 228.6 | 224.9 |
| 12.5° | 300.0 | 281.9 | 261.2 | 250.4 | 243.4 | 237.9 | 233.8 | 233.1 | 229.0 | 228.2 | 226.4 |
| 15° | 317.8 | 294.8 | 268.6 | 253.8 | 244.9 | 237.5 | 231.2 | 227.1 | 225.3 | 224.2 | 222.7 |
| 17.5° | 335.2 | 305.9 | 272.6 | 253.8 | 244.2 | 235.6 | 229.0 | 225.3 | 220.8 | 221.6 | 218.6 |
| 20° | 358.5 | 317.8 | 273.7 | 249.0 | 237.1 | 229.0 | 220.1 | 218.3 | 215.7 | 213.4 | 214.2 |
| 22.5° | 381.0 | 326.3 | 270.4 | 243.0 | 226.0 | 216.4 | 212.0 | 209.8 | 208.6 | 206.8 | 204.2 |
| 25° | 401.4 | 335.5 | 265.2 | 232.3 | 214.2 | 207.2 | 203.1 | 202.7 | 200.1 | 200.1 | 195.3 |
| 27.5° | 422.1 | 338.9 | 256.4 | 219.7 | 203.8 | 199.8 | 197.9 | 197.2 | 196.1 | 193.5 | 190.1 |
| 30° | 445.8 | 340.0 | 243.4 | 206.8 | 194.6 | 190.1 | 192.7 | 194.6 | 189.8 | 185.0 | 186.4 |
| 32.5° | 465.4 | 337.4 | 227.9 | 194.6 | 187.9 | 185.7 | 190.9 | 192.7 | 187.2 | 182.0 | 179.4 |
| 35° | 489.0 | 331.1 | 212.7 | 185.0 | 181.3 | 185.7 | 190.1 | 190.1 | 179.0 | 172.8 | 171.3 |
| 37.5° | 524.9 | 324.1 | 198.7 | 176.8 | 174.2 | 183.5 | 189.4 | 185.3 | 167.9 | 160.2 | 158.3 |
| 40° | 563.4 | 319.6 | 185.0 | 168.7 | 170.5 | 179.8 | 183.1 | 170.5 | 152.8 | 148.0 | 146.5 |
| 42.5° | 619.3 | 310.7 | 172.8 | 161.7 | 167.2 | 174.6 | 174.6 | 152.0 | 145.4 | 142.8 | 142.4 |
| 45° | 688.8 | 304.5 | 162.0 | 155.7 | 162.4 | 164.2 | 158.3 | 142.4 | 137.6 | 136.9 | 137.2 |
| 47.5° | 722.8 | 292.2 | 150.9 | 148.7 | 153.5 | 153.9 | 138.4 | 134.7 | 130.6 | 129.5 | 128.7 |
| 50° | 717.7 | 270.4 | 136.5 | 139.5 | 146.1 | 142.4 | 126.1 | 126.9 | 123.2 | 122.8 | 121.0 |
| 52.5° | 681.4 | 236.0 | 122.1 | 129.1 | 136.5 | 125.8 | 116.2 | 115.4 | 115.4 | 110.6 | 108.8 |
| 55° | 604.1 | 190.1 | 104.7 | 113.6 | 122.4 | 105.8 | 103.2 | 102.5 | 100.6 | 96.2 | 95.1 |
| 57.5° | 478.3 | 139.5 | 78.8 | 88.4 | 104.0 | 89.9 | 89.5 | 86.2 | 81.4 | 78.1 | 78.1 |
| 60° | 284.5 | 80.3 | 49.6 | 54.0 | 68.8 | 72.9 | 81.0 | 79.5 | 71.4 | 66.2 | 64.7 |
| 62.5° | 129.8 | 41.4 | 31.4 | 32.2 | 37.0 | 47.4 | 63.6 | 73.6 | 62.1 | 53.3 | 52.5 |
| 65° | 43.7 | 30.7 | 25.9 | 24.8 | 25.5 | 28.5 | 38.1 | 52.2 | 49.6 | 41.1 | 39.6 |
| 67.5° | 26.6 | 27.4 | 24.4 | 22.6 | 22.6 | 22.2 | 21.8 | 23.7 | 29.2 | 28.5 | 28.9 |
| 70° | 22.9 | 25.2 | 22.6 | 20.3 | 19.6 | 18.5 | 15.5 | 12.9 | 11.1 | 12.9 | 13.7 |
| 72.5° | 18.5 | 20.0 | 19.2 | 17.4 | 15.5 | 14.1 | 11.1 | 8.5 | 6.3 | 5.5 | 5.5 |
| 75° | 13.7 | 14.8 | 15.5 | 13.3 | 11.8 | 10.0 | 8.1 | 5.5 | 3.3 | 2.2 | 2.2 |
| 77.5° | 10.0 | 11.1 | 11.5 | 10.4 | 8.9 | 7.0 | 5.2 | 3.7 | 1.8 | 0.7 | 0.7 |
| 80° | 8.5 | 10.0 | 11.1 | 10.4 | 9.2 | 6.7 | 4.8 | 2.6 | 1.5 | 0.4 | 0.4 |
| 82.5° | 8.1 | 10.0 | 11.1 | 10.0 | 8.9 | 6.3 | 4.8 | 3.0 | 1.1 | 0.4 | 0.4 |
| 85° | 1.8 | 2.6 | 3.3 | 4.1 | 4.8 | 4.8 | 3.7 | 2.2 | 1.1 | 0.4 | 0.4 |
| 87.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 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)