

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: INVUE

Report Number: P401860

Luminaire Tested: **ENT-SA1F-740-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1F-740-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6885 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

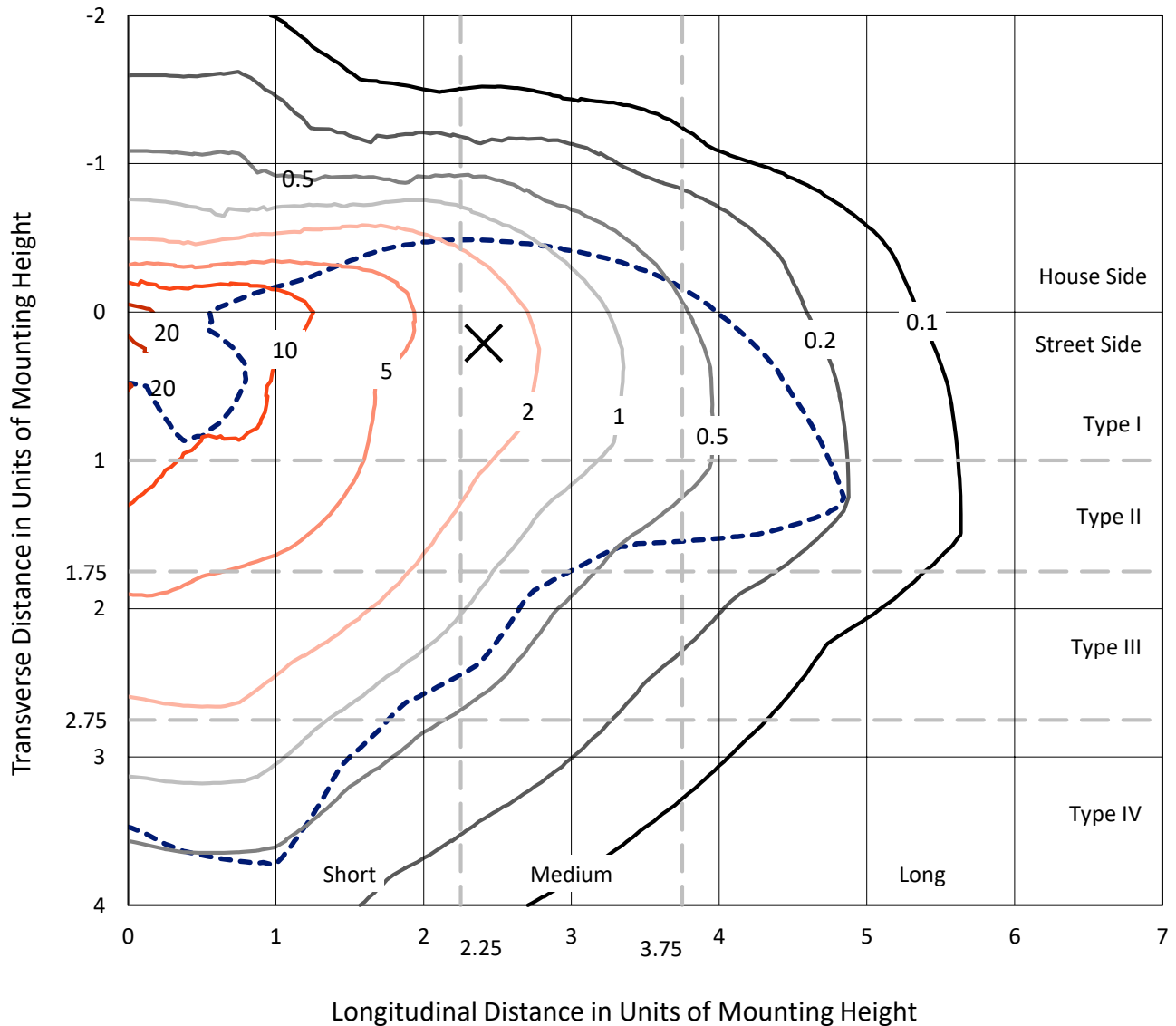
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

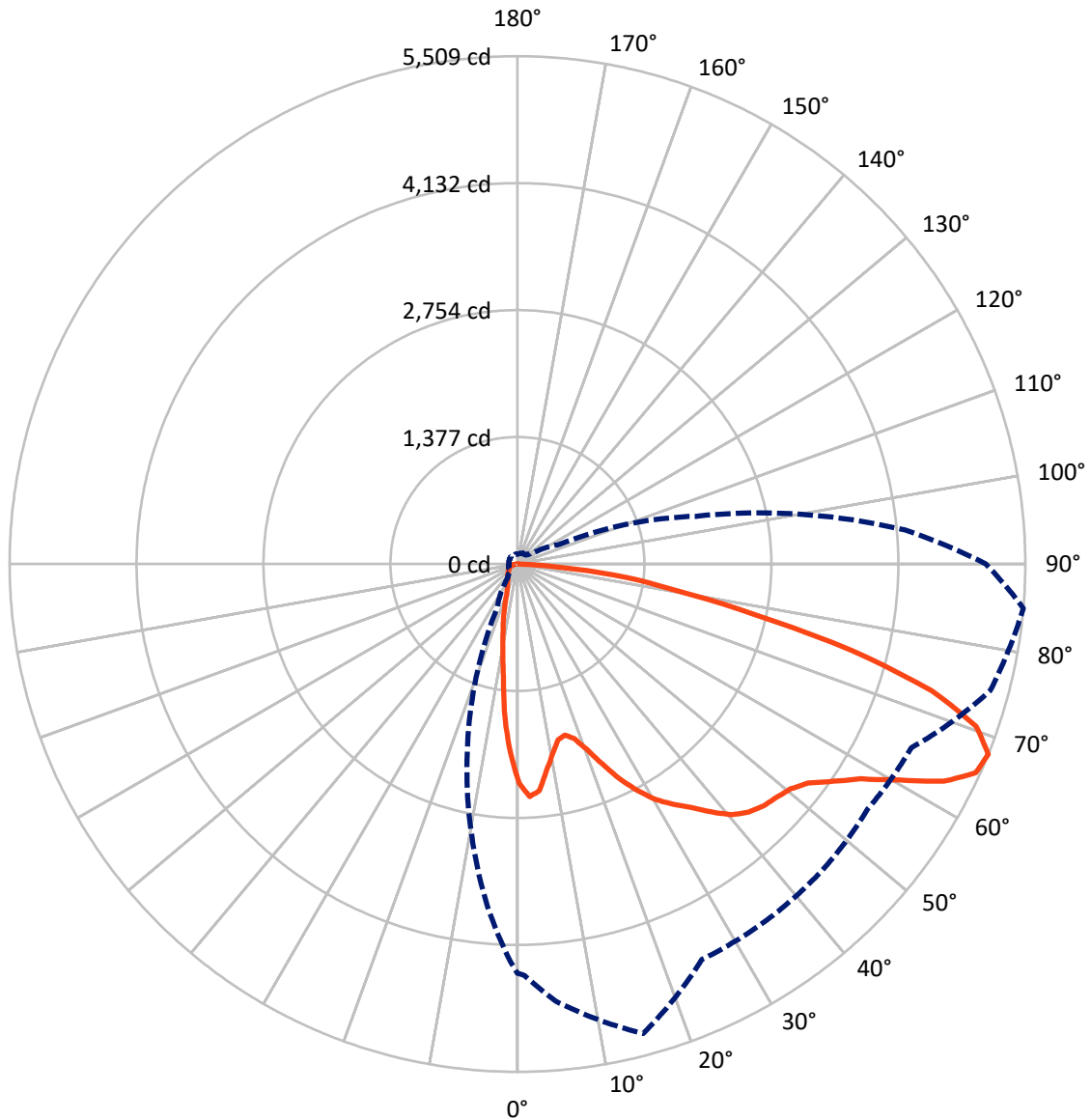
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1387.2 | 0.0 | 1387.2 |
| | % Fixture | 20.1 | 0.0 | 20.1 |
| Street Side | Lumens | 5497.8 | 0.0 | 5497.8 |
| | % Fixture | 79.9 | 0.0 | 79.9 |
| Total | Lumens | 6885.0 | 0.0 | 6885.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 180.9 | 2.6 |
| 10°-20° | 356.7 | 5.2 |
| 20°-30° | 498.3 | 7.2 |
| 30°-40° | 702.5 | 10.2 |
| 40°-50° | 973.4 | 14.1 |
| 50°-60° | 1367.8 | 19.9 |
| 60°-70° | 1672.2 | 24.3 |
| 70°-80° | 982.7 | 14.3 |
| 80°-90° | 150.5 | 2.2 |
| 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° | 6885.0 | 100.0 |
| 0°-180° | 6885.0 | 100.0 |



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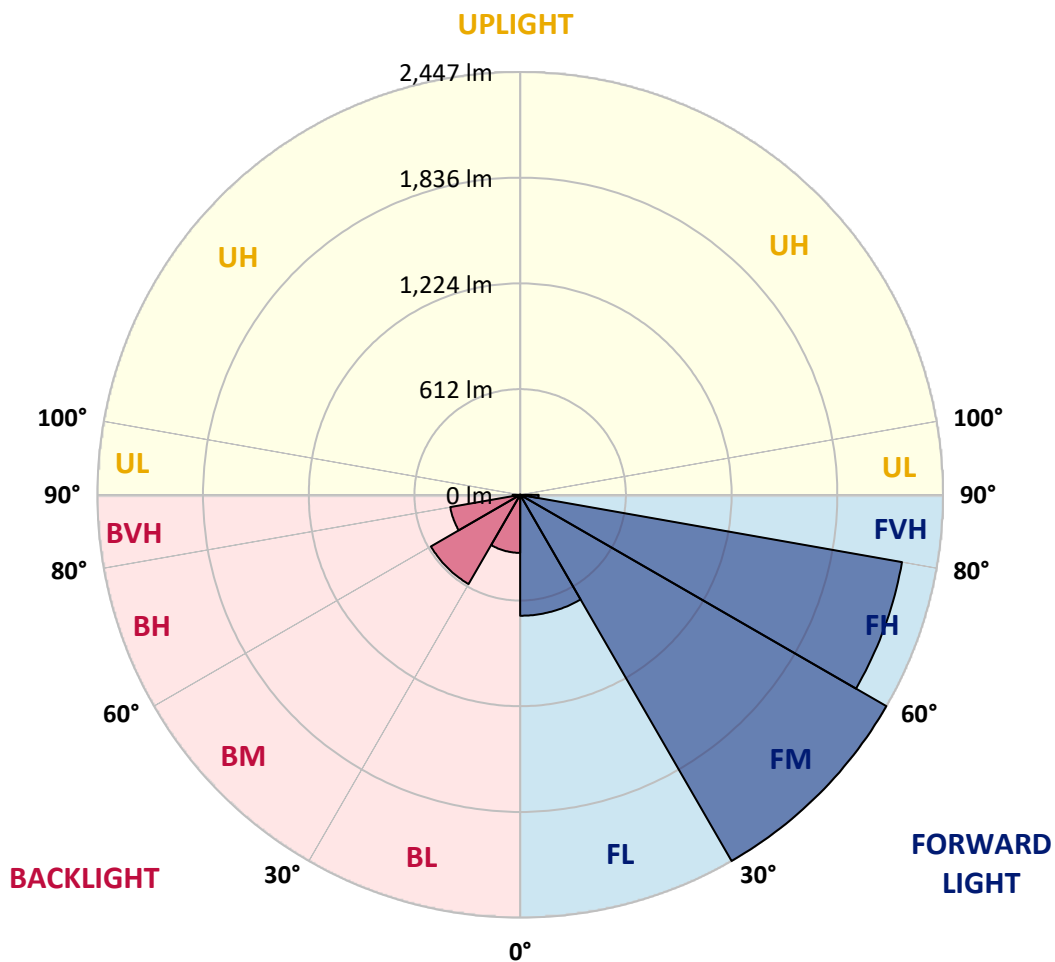
CATALOG NUMBER: ENT-SA1F-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 699.9 | 10.2 | | | |
| FM | (30°-60°) | 2447.3 | 35.5 | | | |
| FH | (60°-80°) | 2244.0 | 32.6 | | | G2/5000 |
| FVH | (80°-90°) | 106.5 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 336.0 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 596.4 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 410.9 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 44.0 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5° | 2443.9 | 2432.9 | 2470.5 | 2525.8 | 2563.5 | 2590.0 | 2598.9 | 2597.8 | 2590.0 | 2569.0 | 2524.7 |
| 5° | 2335.5 | 2325.5 | 2401.9 | 2524.7 | 2632.1 | 2709.6 | 2731.7 | 2700.7 | 2662.0 | 2580.1 | 2471.6 |
| 7.5° | 2129.6 | 2145.1 | 2242.5 | 2415.2 | 2587.8 | 2710.7 | 2740.6 | 2691.9 | 2612.2 | 2445.0 | 2262.4 |
| 10° | 1973.5 | 1981.3 | 2090.9 | 2298.9 | 2482.7 | 2608.9 | 2660.9 | 2617.7 | 2513.7 | 2302.3 | 2090.9 |
| 12.5° | 1877.2 | 1885.0 | 1991.2 | 2183.8 | 2379.7 | 2478.3 | 2493.8 | 2492.6 | 2406.3 | 2201.5 | 1956.9 |
| 15° | 1890.5 | 1900.5 | 2006.7 | 2166.1 | 2276.8 | 2320.0 | 2321.1 | 2333.3 | 2307.8 | 2151.7 | 1924.8 |
| 17.5° | 2018.9 | 2018.9 | 2120.7 | 2217.0 | 2191.6 | 2160.6 | 2183.8 | 2206.0 | 2250.2 | 2181.6 | 1990.1 |
| 20° | 2221.5 | 2230.3 | 2324.4 | 2307.8 | 2152.8 | 2075.4 | 2047.7 | 2086.4 | 2223.7 | 2271.3 | 2144.0 |
| 22.5° | 2440.6 | 2463.9 | 2562.4 | 2440.6 | 2146.2 | 1995.7 | 1964.7 | 2006.7 | 2227.0 | 2413.0 | 2355.4 |
| 25° | 2683.0 | 2711.8 | 2778.2 | 2595.6 | 2166.1 | 1951.4 | 1930.4 | 1970.2 | 2235.9 | 2543.6 | 2583.4 |
| 27.5° | 2904.4 | 2906.6 | 2971.9 | 2726.2 | 2218.1 | 1955.8 | 1920.4 | 1972.4 | 2260.2 | 2646.5 | 2784.9 |
| 30° | 3061.6 | 3061.6 | 3090.3 | 2792.6 | 2282.3 | 1983.5 | 1929.3 | 2005.6 | 2294.5 | 2702.9 | 2967.5 |
| 32.5° | 3205.5 | 3213.2 | 3198.8 | 2862.3 | 2343.2 | 2023.3 | 1950.3 | 2072.0 | 2348.8 | 2749.4 | 3108.1 |
| 35° | 3388.1 | 3387.0 | 3322.8 | 2917.7 | 2399.7 | 2066.5 | 2002.3 | 2156.2 | 2427.3 | 2818.1 | 3242.0 |
| 37.5° | 3613.9 | 3602.8 | 3466.7 | 2967.5 | 2468.3 | 2140.7 | 2100.8 | 2271.3 | 2532.5 | 2898.9 | 3411.3 |
| 40° | 3818.7 | 3801.0 | 3598.4 | 3014.0 | 2522.5 | 2284.6 | 2261.3 | 2414.1 | 2665.3 | 2999.6 | 3576.3 |
| 42.5° | 3978.0 | 3951.5 | 3710.2 | 3047.2 | 2604.4 | 2510.4 | 2530.3 | 2670.8 | 2799.2 | 3089.2 | 3679.2 |
| 45° | 4112.0 | 4084.3 | 3794.3 | 3063.8 | 2802.6 | 2832.4 | 2871.2 | 2988.5 | 2942.0 | 3113.6 | 3742.3 |
| 47.5° | 4208.3 | 4162.9 | 3830.8 | 3112.5 | 3070.4 | 3208.8 | 3328.3 | 3336.1 | 3143.5 | 3112.5 | 3781.0 |
| 50° | 4264.7 | 4214.9 | 3865.1 | 3233.1 | 3381.5 | 3636.0 | 3763.3 | 3703.5 | 3352.7 | 3132.4 | 3836.4 |
| 52.5° | 4378.7 | 4326.7 | 4007.9 | 3429.0 | 3700.2 | 4068.8 | 4137.4 | 4041.1 | 3569.6 | 3235.3 | 3947.1 |
| 55° | 4665.4 | 4642.2 | 4284.6 | 3692.5 | 4013.5 | 4418.6 | 4449.6 | 4353.3 | 3796.5 | 3413.6 | 4158.5 |
| 57.5° | 4989.7 | 4938.8 | 4658.8 | 4023.4 | 4313.4 | 4692.0 | 4741.8 | 4609.0 | 4034.5 | 3663.7 | 4394.2 |
| 60° | 5080.5 | 5070.5 | 4975.3 | 4409.7 | 4623.3 | 4984.2 | 4987.5 | 4818.2 | 4312.3 | 3961.4 | 4754.0 |
| 62.5° | 4947.7 | 4979.8 | 5107.0 | 4767.2 | 4883.5 | 5180.1 | 5152.4 | 4976.4 | 4603.4 | 4435.2 | 5191.2 |
| 65° | 4716.3 | 4761.7 | 5017.4 | 5104.8 | 4943.2 | 5141.4 | 5082.7 | 4970.9 | 4787.2 | 4945.4 | 5462.3 |
| 67.5° | 4438.5 | 4462.9 | 4760.6 | 5273.1 | 4734.0 | 4715.2 | 4687.5 | 4636.6 | 4714.1 | 5308.5 | 5508.8 |
| 70° | 4149.6 | 4170.6 | 4445.1 | 5041.7 | 4106.4 | 3890.6 | 3867.4 | 3823.1 | 4125.3 | 5304.1 | 5280.8 |
| 72.5° | 3497.7 | 3484.4 | 3737.9 | 4208.3 | 3135.7 | 2842.4 | 3039.4 | 2943.1 | 3337.2 | 4765.0 | 4704.1 |
| 75° | 2172.8 | 2245.8 | 2563.5 | 2950.9 | 2148.4 | 1947.0 | 2219.3 | 2194.9 | 2709.6 | 4103.1 | 3745.6 |
| 77.5° | 1323.8 | 1338.2 | 1517.5 | 1839.6 | 1293.9 | 1349.3 | 1426.7 | 1577.3 | 2008.9 | 3326.1 | 2611.1 |
| 80° | 692.9 | 644.2 | 775.9 | 1009.5 | 768.2 | 905.4 | 1046.0 | 1212.0 | 1275.1 | 2168.3 | 1745.5 |
| 82.5° | 200.3 | 199.2 | 262.3 | 422.8 | 364.2 | 445.0 | 528.0 | 761.5 | 835.7 | 1289.5 | 1195.4 |
| 85° | 1.1 | 1.1 | 1.1 | 2.2 | 3.3 | 5.5 | 23.2 | 195.9 | 259.0 | 597.7 | 491.4 |
| 87.5° | 0.0 | 0.0 | 1.1 | 2.2 | 2.2 | 4.4 | 6.6 | 8.9 | 11.1 | 13.3 | 48.7 |
| 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° | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5° | 2510.4 | 2493.8 | 2458.3 | 2410.7 | 2377.5 | 2320.0 | 2307.8 | 2271.3 | 2234.7 | 2204.9 | 2206.0 |
| 5° | 2419.6 | 2363.1 | 2276.8 | 2177.2 | 2082.0 | 1996.8 | 1980.2 | 1930.4 | 1916.0 | 1901.6 | 1861.7 |
| 7.5° | 2181.6 | 2115.2 | 1994.6 | 1847.3 | 1727.8 | 1647.0 | 1560.7 | 1508.6 | 1462.2 | 1409.0 | 1422.3 |
| 10° | 1999.0 | 1903.8 | 1737.8 | 1565.1 | 1415.7 | 1307.2 | 1212.0 | 1163.3 | 1095.8 | 1047.1 | 1040.4 |
| 12.5° | 1858.4 | 1755.5 | 1556.2 | 1353.7 | 1213.1 | 1150.0 | 1089.1 | 1012.8 | 937.5 | 873.3 | 840.1 |
| 15° | 1811.9 | 1695.7 | 1464.4 | 1262.9 | 1152.2 | 1075.9 | 990.6 | 903.2 | 811.3 | 742.7 | 716.1 |
| 17.5° | 1866.2 | 1728.9 | 1463.3 | 1224.2 | 1085.8 | 974.0 | 867.8 | 769.3 | 660.8 | 592.2 | 571.1 |
| 20° | 2015.6 | 1844.0 | 1494.3 | 1187.7 | 1005.0 | 853.4 | 704.0 | 597.7 | 487.0 | 438.3 | 416.2 |
| 22.5° | 2223.7 | 2000.1 | 1541.9 | 1143.4 | 915.4 | 706.2 | 537.9 | 404.0 | 349.8 | 325.4 | 319.9 |
| 25° | 2437.3 | 2198.2 | 1609.4 | 1105.8 | 816.9 | 562.3 | 386.3 | 323.2 | 297.7 | 286.7 | 286.7 |
| 27.5° | 2672.0 | 2396.3 | 1682.4 | 1060.4 | 715.0 | 418.4 | 314.3 | 284.5 | 271.2 | 264.5 | 263.4 |
| 30° | 2862.3 | 2557.9 | 1765.4 | 1007.2 | 623.2 | 343.1 | 278.9 | 259.0 | 246.8 | 243.5 | 243.5 |
| 32.5° | 2999.6 | 2678.6 | 1852.9 | 954.1 | 539.0 | 309.9 | 259.0 | 241.3 | 228.0 | 225.8 | 225.8 |
| 35° | 3160.1 | 2793.7 | 1892.7 | 924.2 | 488.1 | 288.9 | 244.6 | 226.9 | 214.7 | 209.2 | 209.2 |
| 37.5° | 3352.7 | 2931.0 | 1914.9 | 895.4 | 466.0 | 269.0 | 234.7 | 214.7 | 202.6 | 195.9 | 195.9 |
| 40° | 3597.3 | 3087.0 | 1938.1 | 866.7 | 452.7 | 252.4 | 223.6 | 203.7 | 193.7 | 186.0 | 186.0 |
| 42.5° | 3772.2 | 3230.9 | 1955.8 | 842.3 | 429.5 | 244.6 | 214.7 | 195.9 | 183.7 | 177.1 | 176.0 |
| 45° | 3864.0 | 3364.8 | 1963.6 | 827.9 | 402.9 | 251.3 | 208.1 | 189.3 | 174.9 | 168.2 | 167.1 |
| 47.5° | 3926.0 | 3475.5 | 1973.5 | 816.9 | 381.9 | 239.1 | 207.0 | 182.6 | 168.2 | 159.4 | 159.4 |
| 50° | 4024.5 | 3621.6 | 1999.0 | 795.8 | 369.7 | 223.6 | 223.6 | 179.3 | 160.5 | 152.7 | 151.6 |
| 52.5° | 4200.5 | 3830.8 | 2067.6 | 772.6 | 356.4 | 208.1 | 230.2 | 180.4 | 155.0 | 146.1 | 143.9 |
| 55° | 4466.2 | 4164.0 | 2181.6 | 739.4 | 337.6 | 189.3 | 214.7 | 181.5 | 149.4 | 141.7 | 138.4 |
| 57.5° | 4811.5 | 4566.9 | 2314.4 | 712.8 | 305.5 | 173.8 | 195.9 | 176.0 | 142.8 | 136.1 | 133.9 |
| 60° | 5044.0 | 4835.9 | 2398.6 | 678.5 | 260.1 | 163.8 | 168.2 | 170.5 | 136.1 | 128.4 | 127.3 |
| 62.5° | 5169.0 | 4840.3 | 2399.7 | 630.9 | 218.1 | 155.0 | 150.5 | 173.8 | 130.6 | 120.6 | 119.5 |
| 65° | 5177.9 | 4604.5 | 2279.0 | 570.0 | 203.7 | 145.0 | 138.4 | 153.9 | 125.1 | 115.1 | 114.0 |
| 67.5° | 5081.6 | 4220.4 | 2003.4 | 500.3 | 209.2 | 137.3 | 128.4 | 129.5 | 118.4 | 109.6 | 108.5 |
| 70° | 4736.2 | 3723.5 | 1607.2 | 445.0 | 210.3 | 127.3 | 120.6 | 117.3 | 111.8 | 104.0 | 101.8 |
| 72.5° | 4086.5 | 3111.4 | 1217.5 | 427.2 | 213.6 | 119.5 | 111.8 | 108.5 | 104.0 | 97.4 | 95.2 |
| 75° | 3083.7 | 2427.3 | 914.3 | 398.5 | 215.8 | 110.7 | 101.8 | 99.6 | 95.2 | 88.5 | 87.4 |
| 77.5° | 2130.7 | 1799.8 | 635.3 | 336.5 | 192.6 | 100.7 | 91.9 | 89.7 | 86.3 | 79.7 | 78.6 |
| 80° | 1438.9 | 1234.1 | 389.6 | 252.4 | 146.1 | 88.5 | 79.7 | 79.7 | 76.4 | 69.7 | 69.7 |
| 82.5° | 1001.7 | 922.0 | 224.7 | 164.9 | 106.3 | 73.1 | 69.7 | 69.7 | 66.4 | 59.8 | 58.7 |
| 85° | 418.4 | 557.9 | 100.7 | 89.7 | 74.2 | 57.6 | 57.6 | 58.7 | 55.3 | 49.8 | 48.7 |
| 87.5° | 14.4 | 59.8 | 39.8 | 42.1 | 44.3 | 39.8 | 44.3 | 44.3 | 43.2 | 38.7 | 37.6 |
| 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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CATALOG NUMBER: ENT-SA1F-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5° | 2173.9 | 2159.5 | 2115.2 | 2109.7 | 2076.5 | 2074.3 | 2088.6 | 2064.3 | 2066.5 | 2096.4 | 2092.0 |
| 5° | 1870.6 | 1837.4 | 1836.3 | 1799.8 | 1758.8 | 1748.8 | 1713.4 | 1700.1 | 1694.6 | 1682.4 | 1726.7 |
| 7.5° | 1463.3 | 1447.8 | 1461.1 | 1456.6 | 1419.0 | 1398.0 | 1322.7 | 1265.1 | 1236.4 | 1248.5 | 1251.9 |
| 10° | 1040.4 | 1063.7 | 1099.1 | 1133.4 | 1106.9 | 1037.1 | 1005.0 | 958.5 | 953.0 | 949.7 | 971.8 |
| 12.5° | 824.6 | 798.0 | 814.6 | 826.8 | 801.4 | 771.5 | 758.2 | 738.3 | 749.3 | 774.8 | 789.2 |
| 15° | 685.1 | 638.7 | 617.6 | 603.2 | 609.9 | 592.2 | 598.8 | 592.2 | 599.9 | 607.7 | 634.2 |
| 17.5° | 541.3 | 524.7 | 484.8 | 466.0 | 467.1 | 459.3 | 461.6 | 460.5 | 456.0 | 473.7 | 494.8 |
| 20° | 407.3 | 402.9 | 394.0 | 380.8 | 383.0 | 377.4 | 374.1 | 355.3 | 347.6 | 353.1 | 370.8 |
| 22.5° | 317.7 | 323.2 | 328.7 | 327.6 | 333.2 | 318.8 | 305.5 | 288.9 | 286.7 | 287.8 | 292.2 |
| 25° | 284.5 | 286.7 | 291.1 | 296.6 | 300.0 | 286.7 | 267.9 | 257.9 | 256.8 | 259.0 | 259.0 |
| 27.5° | 264.5 | 262.3 | 267.9 | 274.5 | 278.9 | 262.3 | 246.8 | 238.0 | 235.8 | 233.5 | 232.4 |
| 30° | 243.5 | 243.5 | 247.9 | 254.6 | 257.9 | 243.5 | 230.2 | 221.4 | 215.8 | 212.5 | 211.4 |
| 32.5° | 228.0 | 229.1 | 231.3 | 235.8 | 241.3 | 226.9 | 215.8 | 208.1 | 198.1 | 194.8 | 192.6 |
| 35° | 210.3 | 214.7 | 218.1 | 219.2 | 223.6 | 213.6 | 202.6 | 190.4 | 181.5 | 178.2 | 178.2 |
| 37.5° | 195.9 | 199.2 | 204.8 | 203.7 | 207.0 | 200.3 | 188.2 | 174.9 | 170.5 | 169.3 | 168.2 |
| 40° | 184.8 | 184.8 | 189.3 | 193.7 | 198.1 | 186.0 | 171.6 | 164.9 | 161.6 | 159.4 | 160.5 |
| 42.5° | 174.9 | 173.8 | 173.8 | 181.5 | 189.3 | 171.6 | 159.4 | 155.0 | 153.9 | 151.6 | 152.7 |
| 45° | 166.0 | 164.9 | 161.6 | 164.9 | 176.0 | 157.2 | 149.4 | 146.1 | 145.0 | 145.0 | 145.0 |
| 47.5° | 158.3 | 156.1 | 151.6 | 152.7 | 160.5 | 146.1 | 139.5 | 138.4 | 137.3 | 137.3 | 138.4 |
| 50° | 149.4 | 147.2 | 143.9 | 142.8 | 145.0 | 138.4 | 132.8 | 130.6 | 130.6 | 130.6 | 132.8 |
| 52.5° | 141.7 | 140.6 | 136.1 | 135.0 | 136.1 | 131.7 | 126.2 | 125.1 | 125.1 | 125.1 | 128.4 |
| 55° | 136.1 | 133.9 | 131.7 | 129.5 | 131.7 | 126.2 | 121.8 | 119.5 | 119.5 | 121.8 | 124.0 |
| 57.5° | 130.6 | 128.4 | 127.3 | 125.1 | 127.3 | 121.8 | 117.3 | 115.1 | 116.2 | 117.3 | 117.3 |
| 60° | 125.1 | 122.9 | 121.8 | 119.5 | 122.9 | 117.3 | 112.9 | 111.8 | 111.8 | 110.7 | 110.7 |
| 62.5° | 119.5 | 118.4 | 116.2 | 114.0 | 118.4 | 111.8 | 108.5 | 106.3 | 105.2 | 105.2 | 105.2 |
| 65° | 112.9 | 111.8 | 110.7 | 109.6 | 111.8 | 106.3 | 102.9 | 101.8 | 99.6 | 98.5 | 99.6 |
| 67.5° | 107.4 | 107.4 | 105.2 | 102.9 | 106.3 | 99.6 | 97.4 | 96.3 | 93.0 | 91.9 | 93.0 |
| 70° | 100.7 | 100.7 | 98.5 | 97.4 | 101.8 | 93.0 | 90.8 | 89.7 | 87.4 | 86.3 | 86.3 |
| 72.5° | 94.1 | 94.1 | 91.9 | 90.8 | 96.3 | 86.3 | 84.1 | 83.0 | 79.7 | 78.6 | 78.6 |
| 75° | 87.4 | 86.3 | 85.2 | 84.1 | 90.8 | 79.7 | 76.4 | 74.2 | 70.8 | 69.7 | 68.6 |
| 77.5° | 79.7 | 78.6 | 76.4 | 77.5 | 81.9 | 70.8 | 66.4 | 65.3 | 62.0 | 60.9 | 59.8 |
| 80° | 69.7 | 68.6 | 67.5 | 69.7 | 69.7 | 62.0 | 56.4 | 54.2 | 50.9 | 48.7 | 47.6 |
| 82.5° | 59.8 | 58.7 | 58.7 | 60.9 | 57.6 | 54.2 | 47.6 | 43.2 | 37.6 | 34.3 | 33.2 |
| 85° | 48.7 | 50.9 | 48.7 | 50.9 | 43.2 | 43.2 | 33.2 | 25.5 | 17.7 | 14.4 | 13.3 |
| 87.5° | 37.6 | 38.7 | 37.6 | 38.7 | 29.9 | 28.8 | 15.5 | 8.9 | 1.1 | 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 |



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| 30° | 212.5 | 223.6 | 245.7 | 325.4 | 602.1 | 961.9 | 1783.1 | 2766.0 | 3008.4 | 3061.6 |
| 32.5° | 194.8 | 207.0 | 226.9 | 294.4 | 544.6 | 915.4 | 1823.0 | 2905.5 | 3156.8 | 3205.5 |
| 35° | 182.6 | 193.7 | 213.6 | 266.8 | 493.7 | 883.3 | 1835.2 | 3043.9 | 3338.3 | 3388.1 |
| 37.5° | 171.6 | 182.6 | 200.3 | 239.1 | 458.2 | 841.2 | 1854.0 | 3208.8 | 3548.6 | 3613.9 |
| 40° | 163.8 | 172.7 | 189.3 | 220.3 | 409.5 | 795.8 | 1876.1 | 3401.4 | 3753.4 | 3818.7 |
| 42.5° | 156.1 | 166.0 | 180.4 | 221.4 | 360.8 | 757.1 | 1890.5 | 3549.7 | 3916.1 | 3978.0 |
| 45° | 149.4 | 160.5 | 177.1 | 216.9 | 324.3 | 721.7 | 1883.9 | 3673.7 | 4064.4 | 4112.0 |
| 47.5° | 142.8 | 156.1 | 186.0 | 208.1 | 313.2 | 689.6 | 1889.4 | 3793.2 | 4170.6 | 4208.3 |
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| 52.5° | 135.0 | 158.3 | 188.2 | 176.0 | 315.5 | 668.5 | 2044.4 | 4166.2 | 4388.7 | 4378.7 |
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| 57.5° | 125.1 | 150.5 | 158.3 | 147.2 | 271.2 | 673.0 | 2283.4 | 4727.4 | 4982.0 | 4989.7 |
| 60° | 119.5 | 161.6 | 137.3 | 137.3 | 232.4 | 667.4 | 2409.6 | 4723.0 | 5029.6 | 5080.5 |
| 62.5° | 114.0 | 158.3 | 122.9 | 127.3 | 205.9 | 646.4 | 2486.0 | 4447.4 | 4853.6 | 4947.7 |
| 65° | 107.4 | 125.1 | 112.9 | 118.4 | 194.8 | 594.4 | 2377.5 | 4105.3 | 4615.6 | 4716.3 |
| 67.5° | 99.6 | 102.9 | 102.9 | 109.6 | 190.4 | 515.8 | 2104.1 | 3727.9 | 4316.7 | 4438.5 |
| 70° | 90.8 | 91.9 | 94.1 | 104.0 | 177.1 | 443.9 | 1713.4 | 3326.1 | 3995.8 | 4149.6 |
| 72.5° | 81.9 | 83.0 | 83.0 | 94.1 | 166.0 | 383.0 | 1213.1 | 2635.4 | 3336.1 | 3497.7 |
| 75° | 71.9 | 73.1 | 71.9 | 81.9 | 145.0 | 286.7 | 720.6 | 1666.9 | 1990.1 | 2172.8 |
| 77.5° | 60.9 | 60.9 | 58.7 | 64.2 | 99.6 | 181.5 | 394.0 | 1012.8 | 1210.9 | 1323.8 |
| 80° | 49.8 | 45.4 | 37.6 | 38.7 | 54.2 | 104.0 | 176.0 | 581.1 | 664.1 | 692.9 |
| 82.5° | 33.2 | 25.5 | 15.5 | 14.4 | 17.7 | 28.8 | 41.0 | 230.2 | 211.4 | 200.3 |
| 85° | 6.6 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 87.5° | 0.0 | 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 |

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