

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: P957297

Luminaire Tested: **GALN-SB9C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50347 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

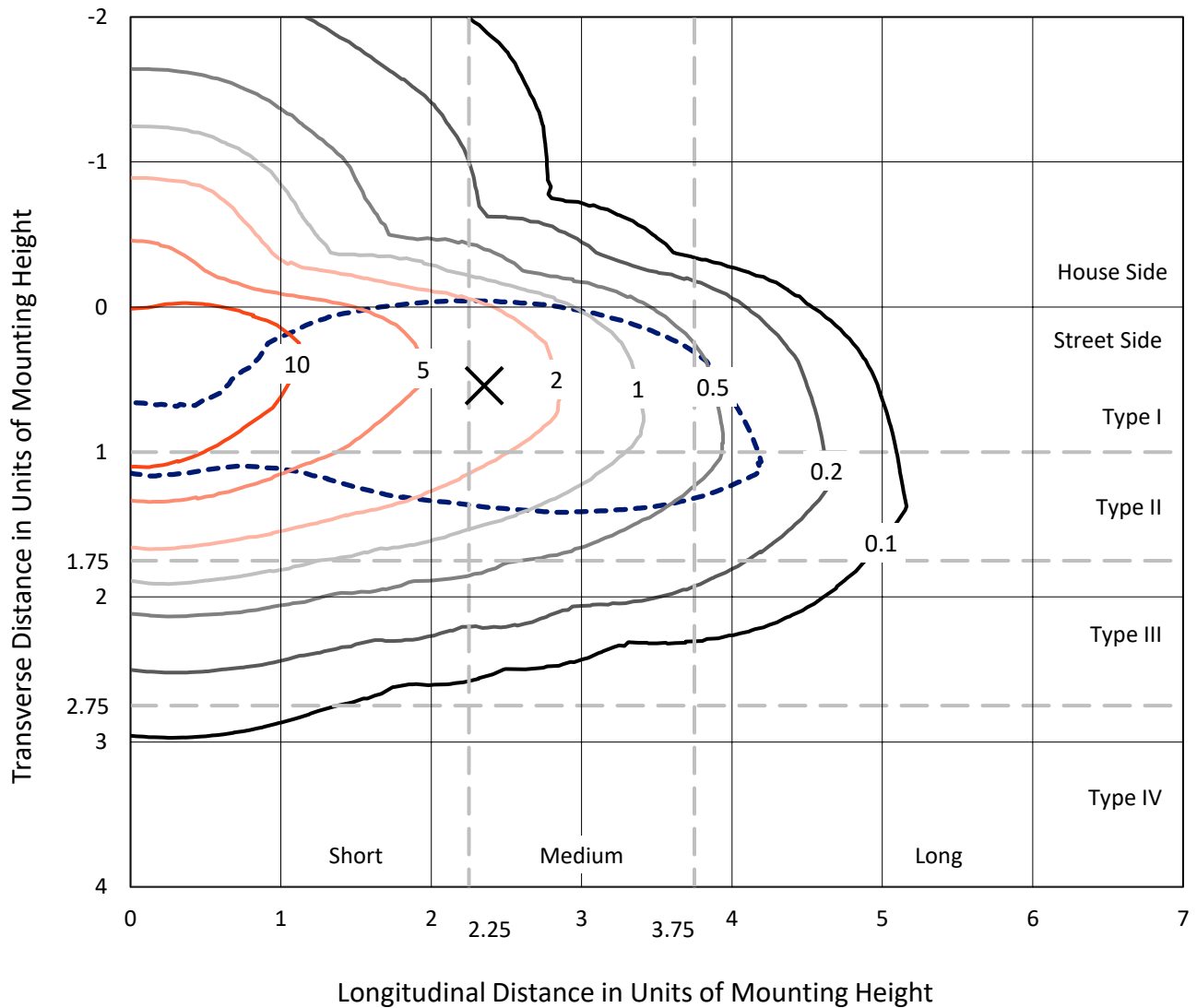
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

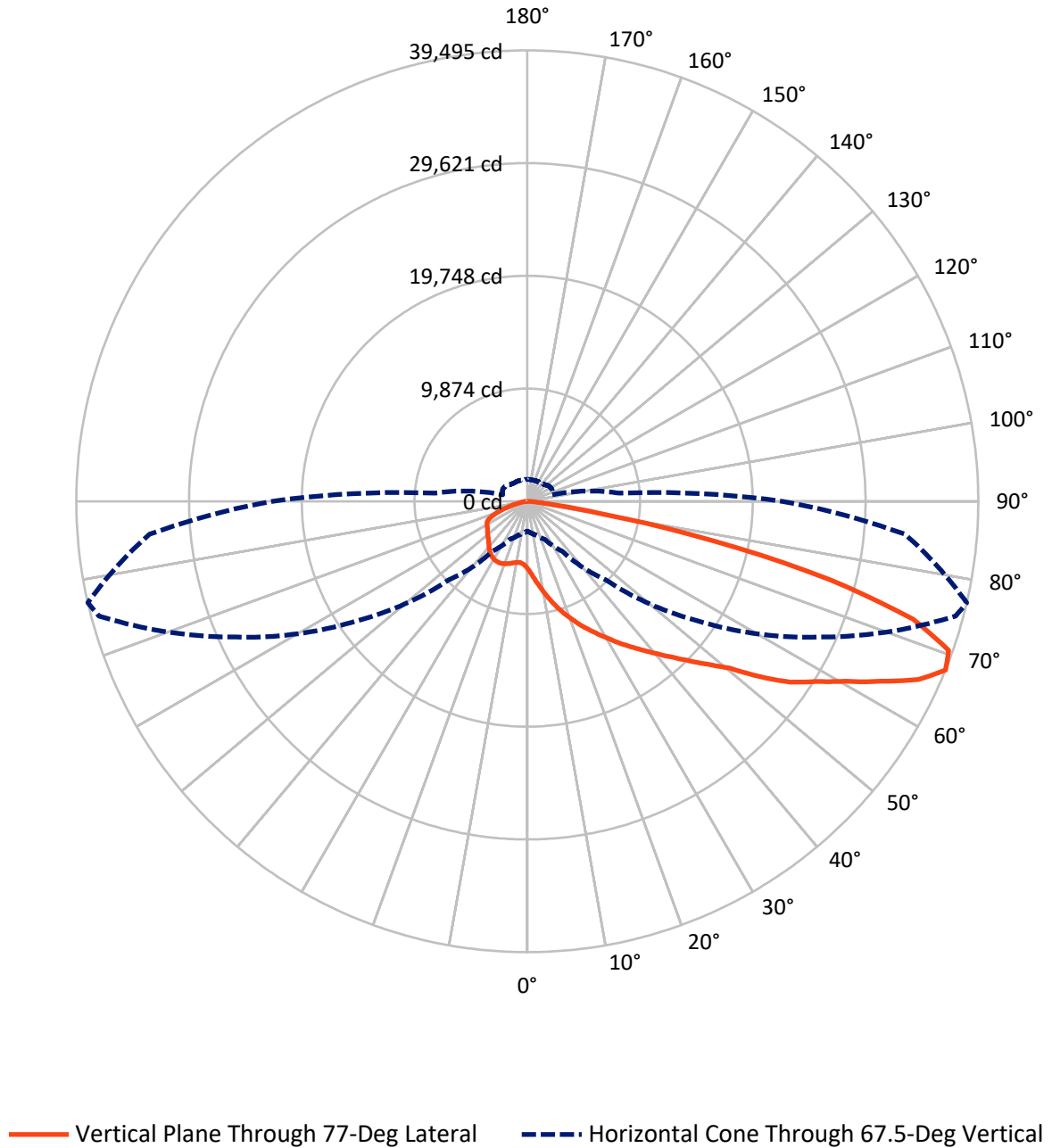
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9523.6 | 0.0 | 9523.6 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 40823.4 | 0.0 | 40823.4 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 50347.0 | 0.0 | 50347.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 633.2 | 1.3 |
| 10°-20° | 2274.8 | 4.5 |
| 20°-30° | 4295.0 | 8.5 |
| 30°-40° | 6919.1 | 13.7 |
| 40°-50° | 9464.1 | 18.8 |
| 50°-60° | 10675.6 | 21.2 |
| 60°-70° | 9964.3 | 19.8 |
| 70°-80° | 5462.1 | 10.8 |
| 80°-90° | 658.9 | 1.3 |
| 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° | 50347.0 | 100.0 |
| 0°-180° | 50347.0 | 100.0 |



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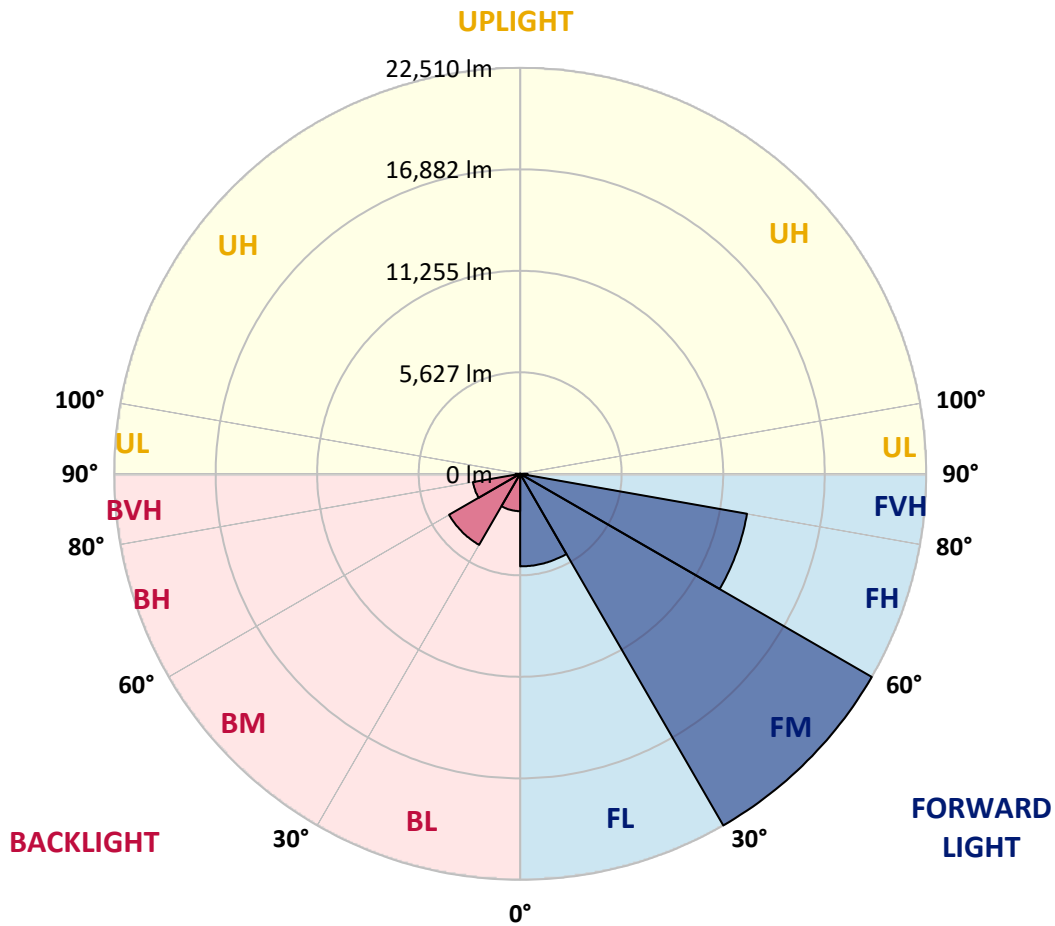
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5132.2 | 10.2 | | | |
| FM (30°-60°) | 22509.6 | 44.7 | | | |
| FH (60°-80°) | 12769.5 | 25.4 | | | G5 |
| FVH (80°-90°) | 412.0 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2070.7 | 4.1 | B3/2500 | | |
| BM (30°-60°) | 4549.2 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 2656.9 | 5.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 246.8 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P957297
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 |
| 2.5° | 7396.4 | 7448.4 | 7383.4 | 7383.4 | 7165.1 | 7050.8 | 6832.5 | 6666.1 | 6367.3 | 6315.3 |
| 5° | 8742.7 | 8807.6 | 8716.7 | 8677.7 | 8420.4 | 8183.9 | 7817.4 | 7456.2 | 6923.4 | 6868.9 |
| 7.5° | 9784.8 | 9868.0 | 9787.4 | 9745.8 | 9517.1 | 9252.0 | 8823.2 | 8319.0 | 7568.0 | 7461.4 |
| 10° | 10634.6 | 10647.6 | 10621.6 | 10637.2 | 10457.9 | 10239.6 | 9800.4 | 9213.0 | 8274.9 | 8129.3 |
| 12.5° | 11115.4 | 11175.2 | 11227.2 | 11320.7 | 11289.6 | 11154.4 | 10759.4 | 10057.7 | 9023.3 | 8836.2 |
| 15° | 11341.5 | 11445.5 | 11562.4 | 11778.2 | 11952.3 | 11986.1 | 11684.6 | 10964.7 | 9784.8 | 9558.7 |
| 17.5° | 11422.1 | 11520.9 | 11705.4 | 12017.2 | 12391.5 | 12643.6 | 12508.4 | 11845.7 | 10538.5 | 10278.6 |
| 20° | 11830.1 | 11858.7 | 11970.5 | 12266.7 | 12672.2 | 13090.6 | 13191.9 | 12693.0 | 11284.4 | 10990.7 |
| 22.5° | 12703.4 | 12646.2 | 12677.4 | 12812.5 | 13103.6 | 13509.0 | 13740.3 | 13441.4 | 12051.0 | 11713.2 |
| 25° | 14145.7 | 13979.4 | 13813.1 | 13657.1 | 13805.3 | 14034.0 | 14296.5 | 14189.9 | 12854.1 | 12425.3 |
| 27.5° | 15967.6 | 15764.8 | 15398.4 | 14886.4 | 14707.1 | 14787.7 | 14904.6 | 14883.8 | 13597.4 | 13163.4 |
| 30° | 17760.8 | 17524.3 | 17087.7 | 16347.0 | 15874.0 | 15660.9 | 15572.5 | 15512.7 | 14405.6 | 13943.0 |
| 32.5° | 19192.8 | 19005.7 | 18576.8 | 17747.8 | 17061.7 | 16697.8 | 16404.2 | 16191.1 | 15250.3 | 14787.7 |
| 35° | 20445.4 | 20271.3 | 19780.1 | 18875.7 | 18129.8 | 17742.6 | 17358.0 | 16903.2 | 16128.7 | 15660.9 |
| 37.5° | 21588.9 | 21414.8 | 20741.7 | 19800.9 | 19049.8 | 18782.1 | 18439.1 | 17667.2 | 17009.7 | 16567.9 |
| 40° | 22311.4 | 22272.5 | 21643.5 | 20578.0 | 19798.3 | 19665.8 | 19551.4 | 18553.4 | 17986.9 | 17576.3 |
| 42.5° | 22496.0 | 22581.7 | 22082.7 | 21206.9 | 20463.6 | 20357.1 | 20624.8 | 19556.6 | 19083.6 | 18691.2 |
| 45° | 22051.5 | 22298.4 | 21971.0 | 21375.8 | 20936.6 | 20879.4 | 21575.9 | 20653.3 | 20297.3 | 19938.7 |
| 47.5° | 20926.2 | 21344.6 | 21209.5 | 21126.3 | 21064.0 | 21310.9 | 22412.8 | 21817.6 | 21672.1 | 21360.2 |
| 50° | 18654.8 | 19447.5 | 19684.0 | 20208.9 | 20811.9 | 21646.1 | 23174.3 | 23088.5 | 23278.2 | 22963.8 |
| 52.5° | 14727.9 | 15819.4 | 17191.6 | 18506.7 | 20037.4 | 21534.4 | 24011.1 | 24912.9 | 25713.4 | 25541.8 |
| 55° | 12157.6 | 12648.8 | 13703.9 | 16115.7 | 18535.3 | 21064.0 | 24387.9 | 26386.5 | 28130.3 | 27977.0 |
| 57.5° | 10182.4 | 10621.6 | 11271.4 | 13285.5 | 16263.8 | 19995.8 | 24621.8 | 27285.7 | 29785.8 | 29770.2 |
| 60° | 8064.3 | 8529.5 | 9194.9 | 10621.6 | 13610.4 | 18150.6 | 24569.9 | 28309.7 | 31898.7 | 32028.7 |
| 62.5° | 5673.4 | 6185.3 | 6923.4 | 8254.1 | 10899.7 | 15759.6 | 23509.5 | 29050.3 | 34385.9 | 34739.3 |
| 65° | 3729.4 | 4067.3 | 4623.4 | 5772.1 | 8121.5 | 12685.2 | 21485.0 | 29146.5 | 37047.1 | 37644.9 |
| 67.5° | 2614.5 | 2744.4 | 3071.9 | 3695.6 | 5353.7 | 9727.6 | 18259.8 | 28151.1 | 38822.2 | 39495.3 |
| 70° | 2040.1 | 2105.1 | 2271.4 | 2520.9 | 3363.0 | 6541.4 | 13992.4 | 25562.6 | 38442.7 | 39144.4 |
| 72.5° | 1762.0 | 1824.4 | 1886.8 | 1918.0 | 2255.8 | 4038.7 | 9478.1 | 21373.2 | 34869.2 | 35344.8 |
| 75° | 1598.3 | 1613.9 | 1665.9 | 1655.5 | 1720.5 | 2619.7 | 5470.7 | 15572.5 | 27511.8 | 27348.1 |
| 77.5° | 1343.6 | 1364.4 | 1450.2 | 1437.2 | 1528.1 | 1790.6 | 2840.6 | 10049.9 | 17836.2 | 16723.8 |
| 80° | 1138.3 | 1148.7 | 1242.3 | 1226.7 | 1328.0 | 1296.8 | 1450.2 | 5122.4 | 7565.4 | 6408.9 |
| 82.5° | 395.0 | 488.6 | 948.6 | 977.2 | 1013.6 | 784.9 | 836.8 | 2089.5 | 2310.4 | 1769.8 |
| 85° | 192.3 | 205.3 | 483.4 | 686.1 | 683.5 | 395.0 | 408.0 | 745.9 | 727.7 | 571.8 |
| 87.5° | 31.2 | 39.0 | 57.2 | 267.7 | 213.1 | 104.0 | 140.3 | 145.5 | 150.7 | 129.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P957297
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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5907.3 | 0° | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 | 5907.3 |
| 6117.8 | 2.5° | 5972.2 | 5842.3 | 5569.4 | 5317.3 | 5119.8 | 4930.1 | 4823.5 | 4732.6 | 4680.6 | 4670.2 |
| 6403.7 | 5° | 6133.4 | 5865.7 | 5369.3 | 4950.9 | 4678.0 | 4475.3 | 4368.7 | 4301.2 | 4267.4 | 4246.6 |
| 6788.3 | 7.5° | 6364.7 | 5972.2 | 5265.3 | 4789.7 | 4503.9 | 4358.3 | 4303.8 | 4293.4 | 4290.8 | 4293.4 |
| 7253.5 | 10° | 6684.3 | 6146.4 | 5254.9 | 4750.8 | 4511.7 | 4431.1 | 4428.5 | 4431.1 | 4441.5 | 4444.1 |
| 7760.3 | 12.5° | 7030.0 | 6325.7 | 5296.5 | 4784.5 | 4610.4 | 4566.2 | 4558.4 | 4555.8 | 4563.6 | 4568.8 |
| 8272.3 | 15° | 7406.8 | 6562.2 | 5366.7 | 4857.3 | 4719.6 | 4672.8 | 4665.0 | 4649.4 | 4646.8 | 4644.2 |
| 8810.2 | 17.5° | 7794.1 | 6796.1 | 5444.7 | 4935.3 | 4789.7 | 4724.8 | 4696.2 | 4659.8 | 4631.2 | 4623.4 |
| 9366.4 | 20° | 8186.5 | 7027.4 | 5499.2 | 4974.3 | 4794.9 | 4704.0 | 4646.8 | 4584.4 | 4535.1 | 4506.5 |
| 9927.7 | 22.5° | 8604.9 | 7269.1 | 5533.0 | 4963.9 | 4748.2 | 4623.4 | 4519.5 | 4446.7 | 4371.3 | 4321.9 |
| 10494.3 | 25° | 9012.9 | 7479.6 | 5530.4 | 4909.3 | 4657.2 | 4498.7 | 4366.1 | 4272.6 | 4168.6 | 4116.6 |
| 11079.0 | 27.5° | 9405.4 | 7669.3 | 5465.5 | 4813.1 | 4527.3 | 4350.5 | 4192.0 | 4080.3 | 3978.9 | 3929.5 |
| 11669.0 | 30° | 9810.8 | 7827.8 | 5364.1 | 4672.8 | 4373.9 | 4179.0 | 4004.9 | 3908.7 | 3817.8 | 3771.0 |
| 12292.7 | 32.5° | 10213.6 | 7973.4 | 5221.2 | 4498.7 | 4197.2 | 4010.1 | 3838.6 | 3750.2 | 3695.6 | 3695.6 |
| 12963.2 | 35° | 10639.8 | 8074.7 | 5031.4 | 4296.0 | 4010.1 | 3830.8 | 3695.6 | 3643.6 | 3638.4 | 3607.3 |
| 13672.7 | 37.5° | 11089.4 | 8139.7 | 4800.1 | 4088.0 | 3825.6 | 3656.6 | 3615.1 | 3552.7 | 3500.7 | 3433.1 |
| 14452.4 | 40° | 11562.4 | 8204.7 | 4522.1 | 3872.3 | 3630.6 | 3537.1 | 3518.9 | 3435.7 | 3287.6 | 3121.3 |
| 15336.0 | 42.5° | 12136.8 | 8248.9 | 4233.6 | 3656.6 | 3425.3 | 3394.1 | 3420.1 | 3277.2 | 3040.7 | 2915.9 |
| 16401.6 | 45° | 12802.1 | 8321.6 | 3968.5 | 3443.5 | 3214.8 | 3214.8 | 3324.0 | 3136.9 | 2941.9 | 2864.0 |
| 17617.8 | 47.5° | 13664.9 | 8490.6 | 3721.6 | 3209.6 | 3019.9 | 3071.9 | 3110.9 | 2967.9 | 2858.8 | 2762.6 |
| 19099.2 | 50° | 14912.4 | 8896.0 | 3466.9 | 2973.1 | 2871.8 | 2975.7 | 2921.1 | 2838.0 | 2710.6 | 2632.7 |
| 21453.8 | 52.5° | 16461.3 | 9135.1 | 3240.8 | 2760.0 | 2744.4 | 2848.4 | 2770.4 | 2692.4 | 2596.3 | 2492.3 |
| 23239.2 | 55° | 17516.5 | 9179.3 | 3051.1 | 2604.1 | 2658.7 | 2648.3 | 2619.7 | 2549.5 | 2497.5 | 2359.8 |
| 25001.3 | 57.5° | 18696.4 | 9267.6 | 2895.2 | 2510.5 | 2604.1 | 2489.7 | 2479.3 | 2419.6 | 2352.0 | 2258.4 |
| 27150.6 | 60° | 20107.6 | 9405.4 | 2760.0 | 2474.1 | 2557.3 | 2385.8 | 2333.8 | 2310.4 | 2242.8 | 2196.1 |
| 29736.5 | 62.5° | 21646.1 | 9530.1 | 2622.3 | 2479.3 | 2502.7 | 2284.4 | 2206.5 | 2198.7 | 2157.1 | 2141.5 |
| 32163.8 | 65° | 22696.1 | 9189.7 | 2450.7 | 2474.1 | 2417.0 | 2180.5 | 2081.7 | 2079.1 | 2045.3 | 2040.1 |
| 33216.4 | 67.5° | 22329.6 | 8111.1 | 2219.4 | 2401.4 | 2328.6 | 2076.5 | 1967.4 | 1957.0 | 1912.8 | 1915.4 |
| 32117.0 | 70° | 20494.8 | 6572.6 | 1899.8 | 2222.0 | 2219.4 | 1982.9 | 1847.8 | 1814.0 | 1754.2 | 1764.6 |
| 27925.0 | 72.5° | 17053.9 | 4870.3 | 1471.0 | 1923.2 | 2045.3 | 1897.2 | 1710.1 | 1655.5 | 1580.1 | 1590.5 |
| 20614.4 | 75° | 12316.1 | 3311.0 | 1070.7 | 1463.2 | 1780.2 | 1795.8 | 1574.9 | 1481.4 | 1390.4 | 1406.0 |
| 11474.1 | 77.5° | 6302.3 | 1876.4 | 787.5 | 1008.4 | 1398.2 | 1632.1 | 1452.8 | 1328.0 | 1307.2 | 1452.8 |
| 3308.4 | 80° | 2055.7 | 940.8 | 545.8 | 706.9 | 917.4 | 1335.8 | 1273.5 | 1130.5 | 1125.3 | 1159.1 |
| 693.9 | 82.5° | 613.3 | 397.6 | 350.8 | 465.2 | 506.8 | 1024.0 | 1099.3 | 855.0 | 735.5 | 774.5 |
| 231.3 | 85° | 210.5 | 192.3 | 200.1 | 231.3 | 241.7 | 600.3 | 769.3 | 566.6 | 535.4 | 589.9 |
| 52.0 | 87.5° | 49.4 | 67.6 | 57.2 | 52.0 | 52.0 | 145.5 | 298.9 | 236.5 | 327.5 | 218.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 5907.3 |
| 4670.2 |
| 4244.0 |
| 4301.2 |
| 4446.7 |
| 4571.4 |
| 4641.6 |
| 4631.2 |
| 4516.9 |
| 4324.5 |
| 4116.6 |
| 3926.9 |
| 3768.4 |
| 3698.2 |
| 3599.5 |
| 3422.7 |
| 3097.9 |
| 2918.5 |
| 2877.0 |
| 2760.0 |
| 2624.9 |
| 2471.5 |
| 2362.4 |
| 2227.2 |
| 2209.1 |
| 2141.5 |
| 2037.5 |
| 1915.4 |
| 1775.0 |
| 1587.9 |
| 1411.2 |
| 1432.0 |
| 995.4 |
| 800.5 |
| 582.2 |
| 210.5 |
| 0.0 |

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