

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: P848843

Luminaire Tested: **GLAN-SB5C-835-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5C-835-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31049 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

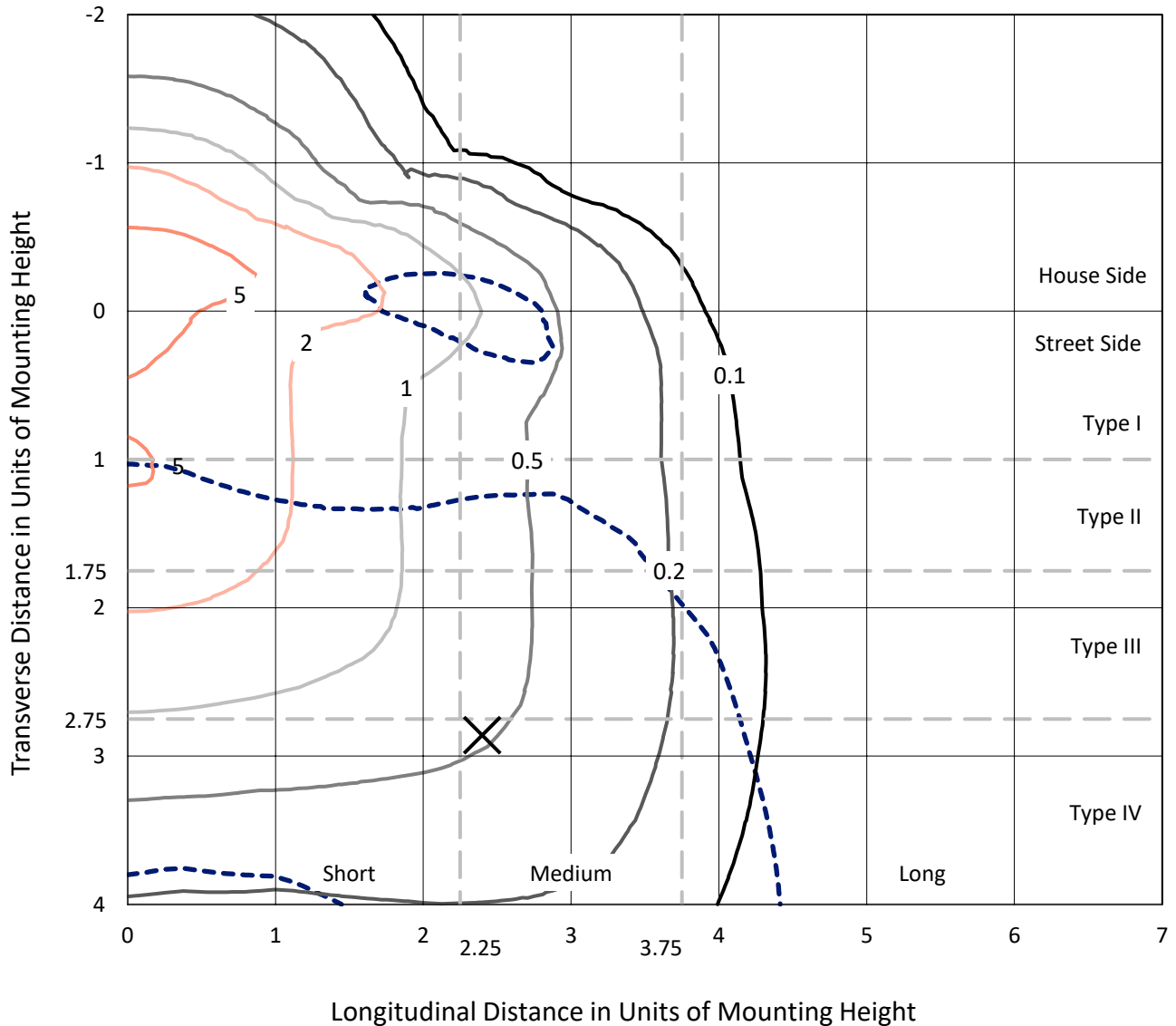
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

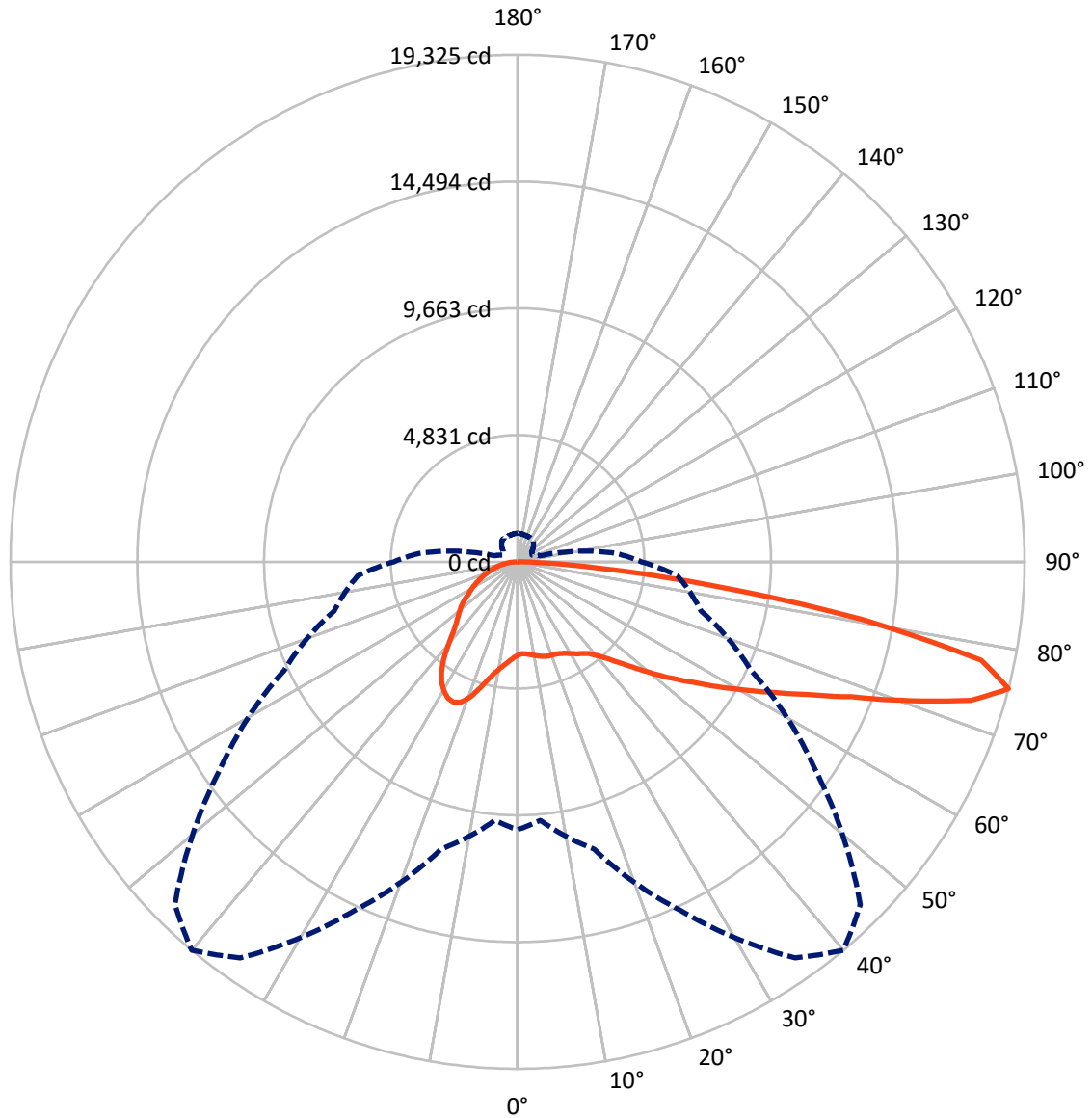
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GLAN-SB5C-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9620.0 | 0.0 | 9620.0 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 21429.0 | 0.0 | 21429.0 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 31049.0 | 0.0 | 31049.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 354.4 | 1.1 |
| 10°-20° | 1189.9 | 3.8 |
| 20°-30° | 2172.7 | 7.0 |
| 30°-40° | 3081.4 | 9.9 |
| 40°-50° | 4160.9 | 13.4 |
| 50°-60° | 5597.5 | 18.0 |
| 60°-70° | 7104.5 | 22.9 |
| 70°-80° | 6447.8 | 20.8 |
| 80°-90° | 939.9 | 3.0 |
| 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° | 31049.0 | 100.0 |
| 0°-180° | 31049.0 | 100.0 |

Coefficient of Utilization

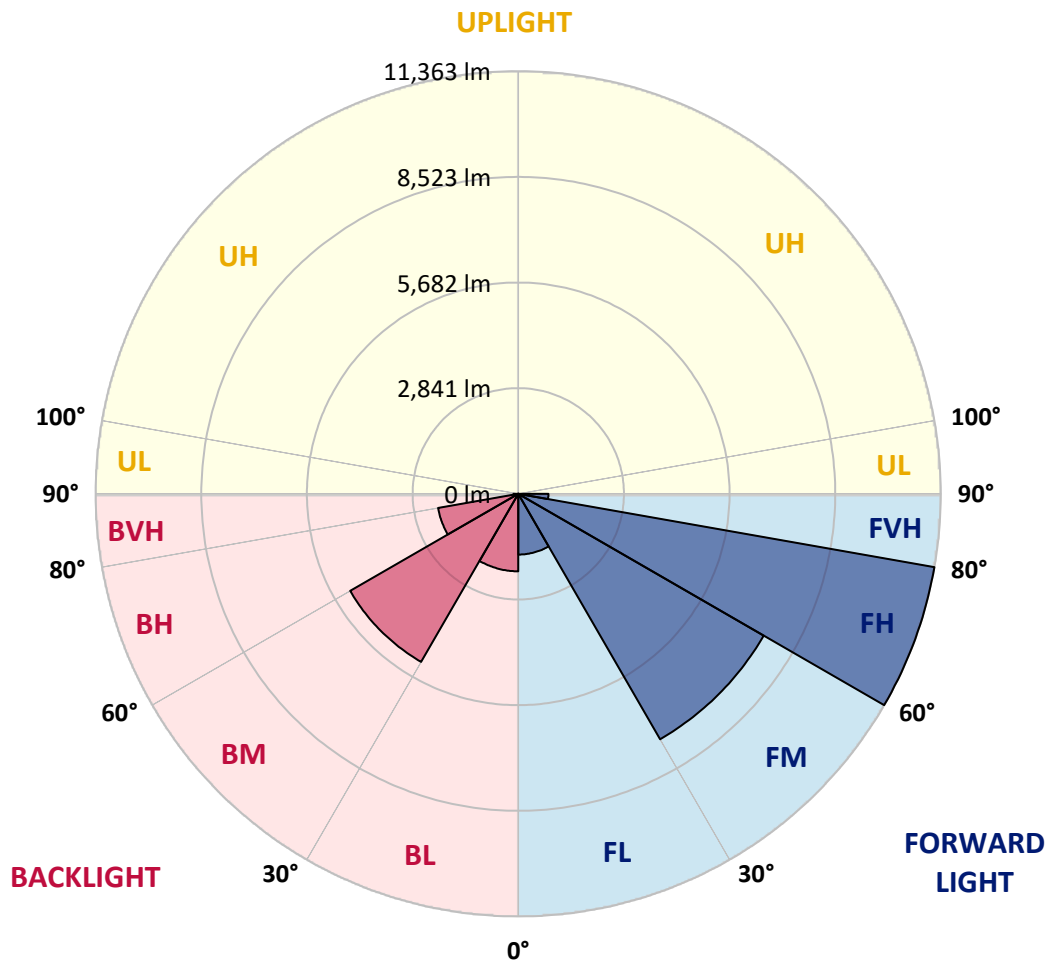


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1633.2 | 5.3 | | | |
| FM (30°-60°) | 7621.8 | 24.5 | | | |
| FH (60°-80°) | 11363.5 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 810.5 | 2.6 | | | G5 |
| BL (0°-30°) | 2083.8 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5218.0 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2188.8 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 129.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 |
| 2.5° | 3496.2 | 3515.9 | 3511.0 | 3504.4 | 3504.4 | 3506.0 | 3504.4 | 3515.9 | 3527.4 | 3539.0 |
| 5° | 3532.4 | 3552.1 | 3542.3 | 3534.0 | 3527.4 | 3525.8 | 3520.9 | 3519.2 | 3525.8 | 3540.6 |
| 7.5° | 3603.2 | 3623.0 | 3608.1 | 3593.3 | 3580.1 | 3573.5 | 3567.0 | 3557.1 | 3552.1 | 3560.4 |
| 10° | 3682.2 | 3702.0 | 3683.9 | 3657.5 | 3636.1 | 3627.9 | 3621.3 | 3611.4 | 3604.8 | 3609.8 |
| 12.5° | 3761.3 | 3781.0 | 3756.3 | 3720.1 | 3692.1 | 3687.2 | 3678.9 | 3675.7 | 3674.0 | 3672.4 |
| 15° | 3835.4 | 3851.9 | 3820.6 | 3777.8 | 3748.1 | 3739.9 | 3731.6 | 3736.6 | 3744.8 | 3754.7 |
| 17.5° | 3893.0 | 3909.5 | 3863.4 | 3807.4 | 3779.4 | 3776.1 | 3771.2 | 3787.6 | 3810.7 | 3835.4 |
| 20° | 3945.7 | 3962.2 | 3902.9 | 3827.2 | 3794.2 | 3794.2 | 3795.9 | 3830.5 | 3863.4 | 3899.6 |
| 22.5° | 4019.8 | 4033.0 | 3960.5 | 3856.8 | 3809.0 | 3812.3 | 3825.5 | 3860.1 | 3901.3 | 3950.7 |
| 25° | 4130.2 | 4140.0 | 4051.1 | 3912.8 | 3858.4 | 3868.3 | 3879.9 | 3896.3 | 3935.8 | 3993.5 |
| 27.5° | 4308.0 | 4316.3 | 4199.3 | 4011.6 | 3929.3 | 3945.7 | 3962.2 | 3950.7 | 3968.8 | 4018.2 |
| 30° | 4558.3 | 4563.3 | 4415.1 | 4166.4 | 4049.5 | 4057.7 | 4061.0 | 4013.2 | 3978.7 | 4018.2 |
| 32.5° | 4854.8 | 4853.1 | 4676.9 | 4354.1 | 4186.2 | 4177.9 | 4149.9 | 4056.1 | 3975.4 | 4010.0 |
| 35° | 5314.2 | 5296.1 | 5068.8 | 4617.6 | 4341.0 | 4289.9 | 4224.0 | 4103.8 | 3991.8 | 4001.7 |
| 37.5° | 6075.0 | 6019.0 | 5704.5 | 5049.1 | 4571.5 | 4441.4 | 4344.3 | 4181.2 | 4028.1 | 3998.4 |
| 40° | 6933.0 | 6862.2 | 6516.4 | 5640.3 | 4917.3 | 4708.2 | 4551.7 | 4291.6 | 4087.4 | 4013.2 |
| 42.5° | 7950.7 | 7850.3 | 7478.1 | 6336.9 | 5355.4 | 5052.4 | 4816.9 | 4431.5 | 4174.6 | 4061.0 |
| 45° | 9200.7 | 9067.3 | 8540.3 | 7122.4 | 5907.1 | 5503.6 | 5189.1 | 4644.0 | 4308.0 | 4153.2 |
| 47.5° | 10463.7 | 10496.7 | 9747.4 | 8021.5 | 6569.1 | 6060.2 | 5655.1 | 4963.4 | 4502.3 | 4301.4 |
| 50° | 11805.9 | 11828.9 | 10947.9 | 9017.9 | 7320.0 | 6689.3 | 6178.8 | 5320.8 | 4772.4 | 4512.2 |
| 52.5° | 12853.3 | 12856.5 | 12038.1 | 10060.3 | 8102.2 | 7380.9 | 6743.6 | 5729.2 | 5085.3 | 4792.2 |
| 55° | 13508.7 | 13500.4 | 12802.2 | 11046.7 | 9001.4 | 8107.2 | 7369.4 | 6193.6 | 5467.4 | 5121.5 |
| 57.5° | 13984.6 | 13959.9 | 13329.2 | 11894.8 | 9959.8 | 8965.2 | 8077.5 | 6720.6 | 5918.6 | 5513.5 |
| 60° | 14165.7 | 14150.9 | 13686.5 | 12627.6 | 10967.7 | 9913.7 | 8894.4 | 7310.1 | 6430.7 | 5976.2 |
| 62.5° | 14234.9 | 14262.9 | 14037.3 | 13337.4 | 12046.3 | 10964.4 | 9791.9 | 8015.0 | 7007.1 | 6499.9 |
| 65° | 14478.6 | 14529.7 | 14483.6 | 14266.2 | 13265.0 | 12194.5 | 10982.5 | 8853.2 | 7636.2 | 7061.5 |
| 67.5° | 14961.2 | 15012.2 | 15032.0 | 15377.8 | 14753.7 | 13727.7 | 12467.9 | 9897.3 | 8372.3 | 7644.4 |
| 70° | 14949.6 | 14934.8 | 15283.9 | 16262.1 | 16617.8 | 15850.4 | 14470.4 | 11181.8 | 9250.1 | 8128.6 |
| 72.5° | 13607.5 | 13488.9 | 14314.0 | 16252.2 | 18169.1 | 18067.0 | 16915.9 | 12838.4 | 10007.6 | 8187.9 |
| 75° | 10208.5 | 9892.3 | 11349.7 | 14646.6 | 18427.7 | 19325.2 | 18470.5 | 13866.0 | 9828.1 | 7234.4 |
| 77.5° | 4365.7 | 4047.8 | 5765.4 | 10842.5 | 16492.7 | 18065.4 | 17044.3 | 12097.4 | 7845.3 | 4783.9 |
| 80° | 1142.9 | 1141.2 | 1742.3 | 4915.7 | 11216.3 | 13340.7 | 11703.8 | 7812.4 | 4482.6 | 1709.4 |
| 82.5° | 472.6 | 461.1 | 640.6 | 1911.9 | 5480.5 | 7486.3 | 6109.6 | 3484.6 | 1618.8 | 462.7 |
| 85° | 176.2 | 174.6 | 311.2 | 660.4 | 1933.3 | 3087.7 | 2234.7 | 890.9 | 403.5 | 225.6 |
| 87.5° | 49.4 | 47.8 | 67.5 | 228.9 | 471.0 | 714.7 | 382.1 | 146.6 | 113.6 | 88.9 |
| 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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 CATALOG NUMBER: GLAN-SB5C-835-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3550.5 | 0° | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 | 3550.5 |
| 3557.1 | 2.5° | 3562.0 | 3570.3 | 3585.1 | 3596.6 | 3611.4 | 3627.9 | 3650.9 | 3665.8 | 3680.6 | 3690.5 |
| 3565.3 | 5° | 3576.8 | 3595.0 | 3632.8 | 3670.7 | 3715.2 | 3756.3 | 3804.1 | 3838.7 | 3866.7 | 3874.9 |
| 3595.0 | 7.5° | 3609.8 | 3639.4 | 3703.6 | 3767.9 | 3838.7 | 3906.2 | 3975.4 | 4034.7 | 4082.4 | 4100.5 |
| 3647.7 | 10° | 3667.4 | 3706.9 | 3797.5 | 3888.1 | 3982.0 | 4085.7 | 4174.6 | 4260.3 | 4327.8 | 4355.8 |
| 3710.2 | 12.5° | 3739.9 | 3789.3 | 3907.8 | 4033.0 | 4163.1 | 4306.4 | 4421.7 | 4527.0 | 4611.0 | 4648.9 |
| 3797.5 | 15° | 3833.7 | 3898.0 | 4049.5 | 4217.4 | 4408.5 | 4607.7 | 4754.3 | 4871.2 | 4965.1 | 5011.2 |
| 3888.1 | 17.5° | 3935.8 | 4021.5 | 4212.5 | 4466.1 | 4739.5 | 5001.3 | 5172.6 | 5258.2 | 5355.4 | 5399.8 |
| 3972.1 | 20° | 4034.7 | 4140.0 | 4413.4 | 4782.3 | 5146.2 | 5424.5 | 5562.9 | 5585.9 | 5592.5 | 5597.5 |
| 4051.1 | 22.5° | 4136.8 | 4278.4 | 4665.4 | 5180.8 | 5571.1 | 5763.8 | 5783.6 | 5684.7 | 5546.4 | 5482.2 |
| 4128.5 | 25° | 4248.7 | 4436.5 | 4994.7 | 5620.5 | 5936.7 | 5959.8 | 5808.3 | 5567.8 | 5306.0 | 5185.8 |
| 4191.1 | 27.5° | 4357.4 | 4619.3 | 5390.0 | 6040.5 | 6200.2 | 5997.6 | 5671.6 | 5330.7 | 5014.5 | 4887.7 |
| 4235.6 | 30° | 4466.1 | 4828.4 | 5826.4 | 6407.7 | 6320.4 | 5903.8 | 5455.8 | 5075.4 | 4757.6 | 4624.2 |
| 4275.1 | 32.5° | 4576.4 | 5072.1 | 6328.6 | 6672.8 | 6299.0 | 5704.5 | 5187.4 | 4788.9 | 4508.9 | 4369.0 |
| 4309.7 | 35° | 4701.6 | 5371.9 | 6804.6 | 6817.7 | 6155.7 | 5411.4 | 4833.3 | 4446.4 | 4202.6 | 4090.6 |
| 4350.8 | 37.5° | 4864.6 | 5752.3 | 7224.5 | 6854.0 | 5905.4 | 4981.6 | 4393.7 | 4041.2 | 3840.3 | 3789.3 |
| 4411.8 | 40° | 5067.2 | 6210.1 | 7545.6 | 6796.3 | 5534.9 | 4459.5 | 3912.8 | 3631.2 | 3517.6 | 3529.1 |
| 4494.1 | 42.5° | 5330.7 | 6722.2 | 7771.2 | 6648.1 | 5019.4 | 3921.0 | 3491.2 | 3366.1 | 3420.4 | 3466.5 |
| 4617.6 | 45° | 5673.2 | 7254.1 | 7911.2 | 6396.2 | 4436.5 | 3464.9 | 3242.5 | 3272.2 | 3313.4 | 3318.3 |
| 4816.9 | 47.5° | 6111.3 | 7792.6 | 8003.4 | 6015.7 | 3842.0 | 3143.7 | 3084.5 | 3091.0 | 3082.8 | 3048.2 |
| 5115.0 | 50° | 6658.0 | 8316.3 | 8085.8 | 5511.8 | 3336.4 | 2942.8 | 2863.8 | 2840.7 | 2727.1 | 2615.1 |
| 5511.8 | 52.5° | 7280.5 | 8797.2 | 8120.4 | 4886.0 | 2942.8 | 2774.9 | 2646.4 | 2501.5 | 2289.0 | 2254.5 |
| 6010.8 | 55° | 7972.1 | 9241.8 | 8031.4 | 4117.0 | 2611.8 | 2559.1 | 2364.8 | 2190.2 | 2167.2 | 2137.5 |
| 6667.9 | 57.5° | 8798.8 | 9721.0 | 7850.3 | 3259.0 | 2272.6 | 2307.2 | 2117.8 | 2137.5 | 2096.4 | 2050.3 |
| 7512.7 | 60° | 9702.9 | 10216.7 | 7532.4 | 2476.8 | 1921.8 | 1992.6 | 2053.6 | 2051.9 | 2040.4 | 2002.5 |
| 8403.6 | 62.5° | 10516.4 | 10542.8 | 6906.7 | 1897.1 | 1613.9 | 1748.9 | 1915.2 | 1913.6 | 1903.7 | 1882.3 |
| 9334.0 | 65° | 11000.6 | 10493.4 | 5862.6 | 1493.6 | 1360.3 | 1548.0 | 1727.5 | 1740.7 | 1742.3 | 1740.7 |
| 10033.9 | 67.5° | 10915.0 | 9915.4 | 4429.9 | 1189.0 | 1151.1 | 1343.8 | 1541.4 | 1559.5 | 1572.7 | 1576.0 |
| 10122.9 | 70° | 9946.7 | 8645.7 | 2888.5 | 948.6 | 965.0 | 1164.3 | 1365.2 | 1383.3 | 1394.8 | 1408.0 |
| 8784.0 | 72.5° | 7753.1 | 6356.6 | 1653.4 | 767.4 | 802.0 | 1009.5 | 1190.6 | 1212.0 | 1218.6 | 1243.3 |
| 6112.9 | 75° | 4724.7 | 3738.2 | 892.6 | 604.4 | 658.7 | 862.9 | 1017.7 | 1042.4 | 1054.0 | 1083.6 |
| 3002.1 | 77.5° | 2246.2 | 1618.8 | 508.9 | 471.0 | 530.3 | 704.8 | 859.6 | 887.6 | 856.3 | 872.8 |
| 828.3 | 80° | 759.2 | 601.1 | 321.1 | 359.0 | 405.1 | 550.0 | 688.4 | 716.4 | 650.5 | 647.2 |
| 275.0 | 82.5° | 265.1 | 243.7 | 204.2 | 238.8 | 261.8 | 393.6 | 520.4 | 556.6 | 484.2 | 482.5 |
| 123.5 | 85° | 103.7 | 98.8 | 113.6 | 130.1 | 156.4 | 242.1 | 342.5 | 360.6 | 298.1 | 240.4 |
| 36.2 | 87.5° | 21.4 | 23.1 | 28.0 | 29.6 | 47.8 | 84.0 | 123.5 | 151.5 | 120.2 | 102.1 |
| 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> |
|---------------|
| 3550.5 |
| 3683.9 |
| 3878.2 |
| 4102.2 |
| 4357.4 |
| 4648.9 |
| 5007.9 |
| 5398.2 |
| 5610.6 |
| 5500.3 |
| 5203.9 |
| 4902.5 |
| 4639.0 |
| 4387.1 |
| 4115.3 |
| 3825.5 |
| 3568.6 |
| 3509.3 |
| 3351.2 |
| 3074.6 |
| 2629.9 |
| 2266.0 |
| 2142.5 |
| 2042.0 |
| 1989.3 |
| 1874.1 |
| 1740.7 |
| 1579.3 |
| 1414.6 |
| 1253.2 |
| <i>1086.9</i> |
| 859.6 |
| 640.6 |
| 459.5 |
| 237.1 |
| 93.9 |
| 0.0 |

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