

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: P852703

Luminaire Tested: **GLAN-SB5D-740-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53751 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

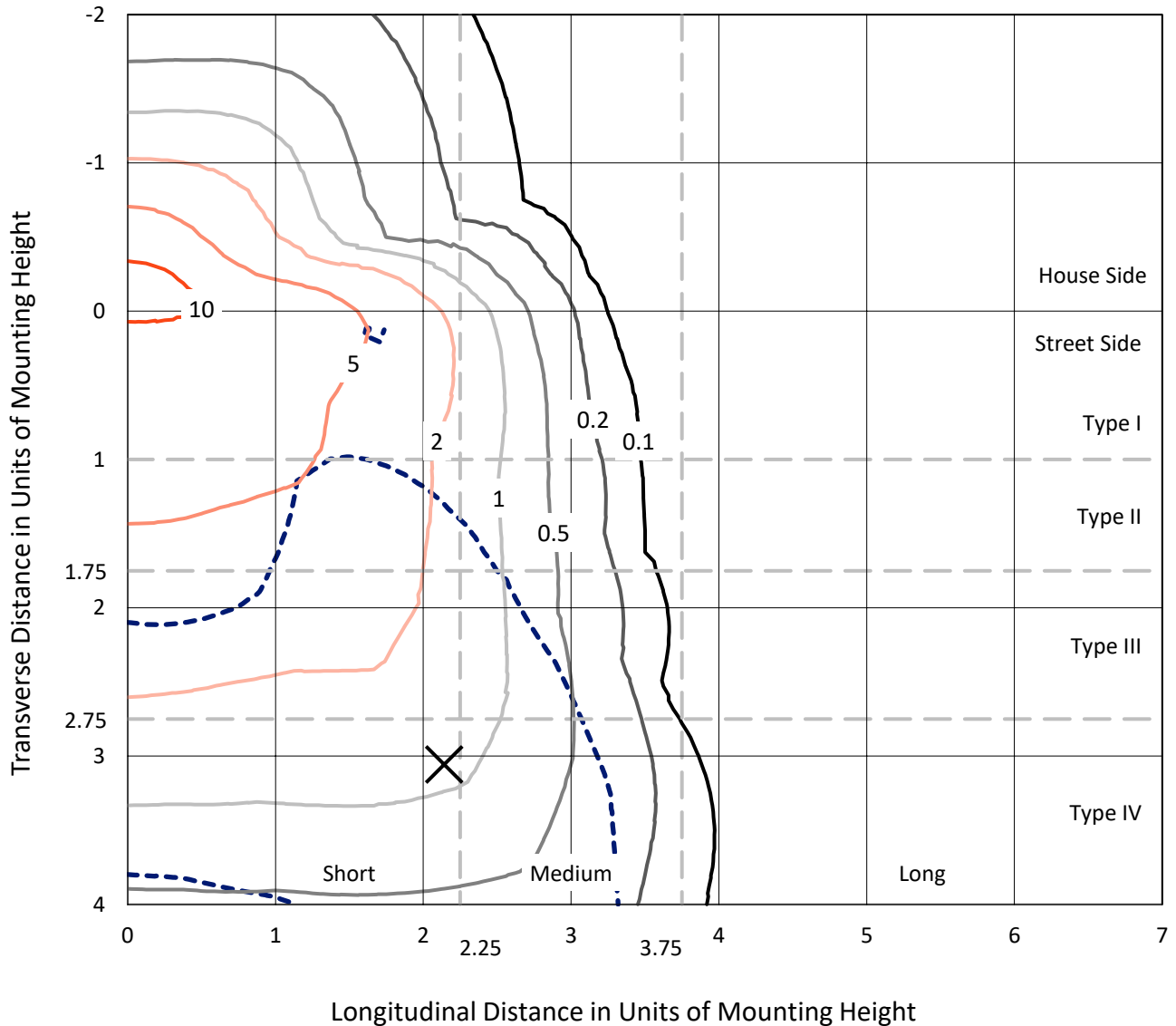
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

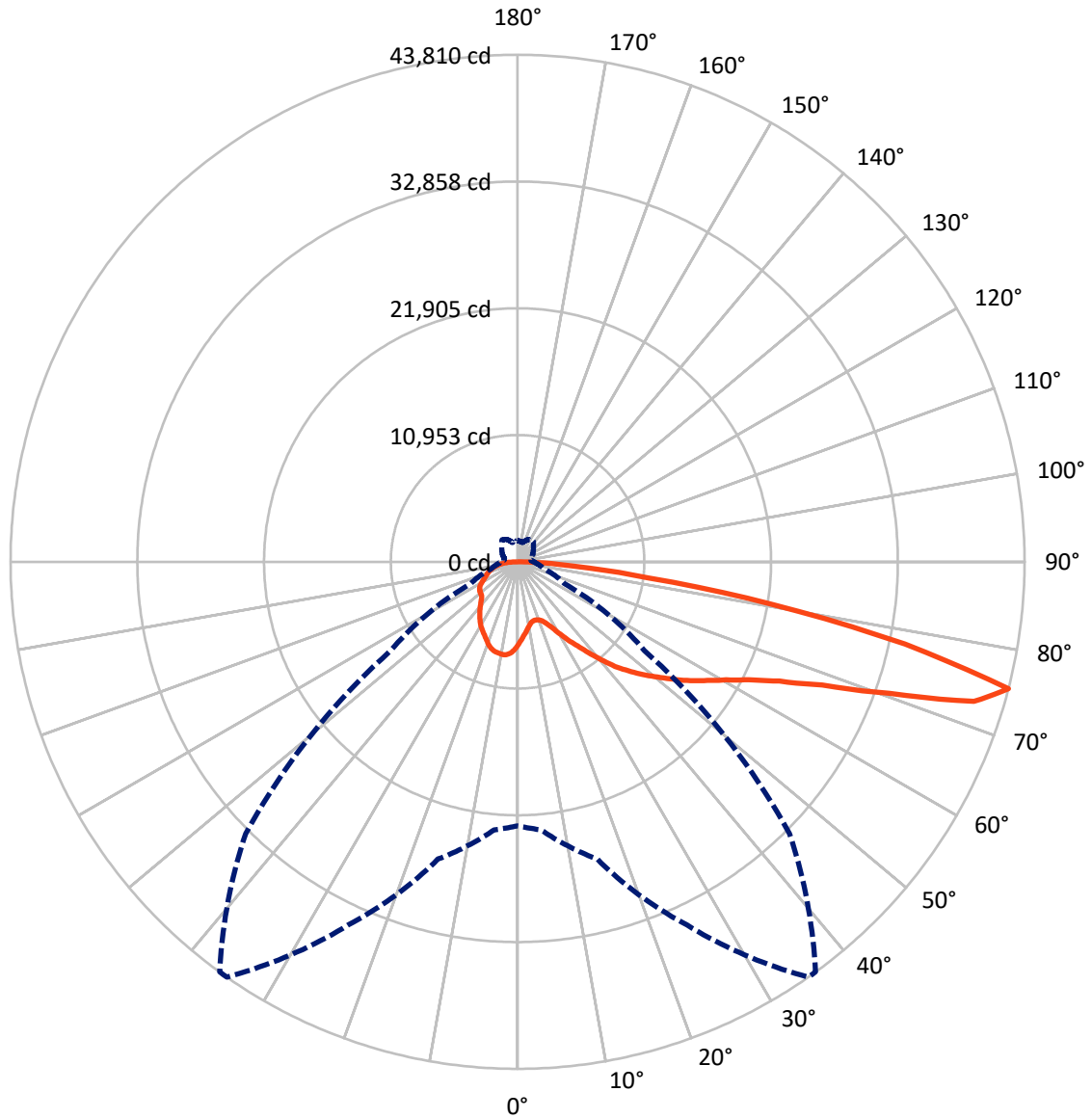
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GLAN-SB5D-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12791.4 | 0.0 | 12791.4 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 40959.6 | 0.0 | 40959.6 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 53751.0 | 0.0 | 53751.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 678.2 | 1.3 |
| 10°-20° | 1956.1 | 3.6 |
| 20°-30° | 3284.8 | 6.1 |
| 30°-40° | 5105.1 | 9.5 |
| 40°-50° | 7577.3 | 14.1 |
| 50°-60° | 10460.9 | 19.5 |
| 60°-70° | 12691.5 | 23.6 |
| 70°-80° | 10488.5 | 19.5 |
| 80°-90° | 1508.6 | 2.8 |
| 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° | 53751.0 | 100.0 |
| 0°-180° | 53751.0 | 100.0 |

Coefficient of Utilization

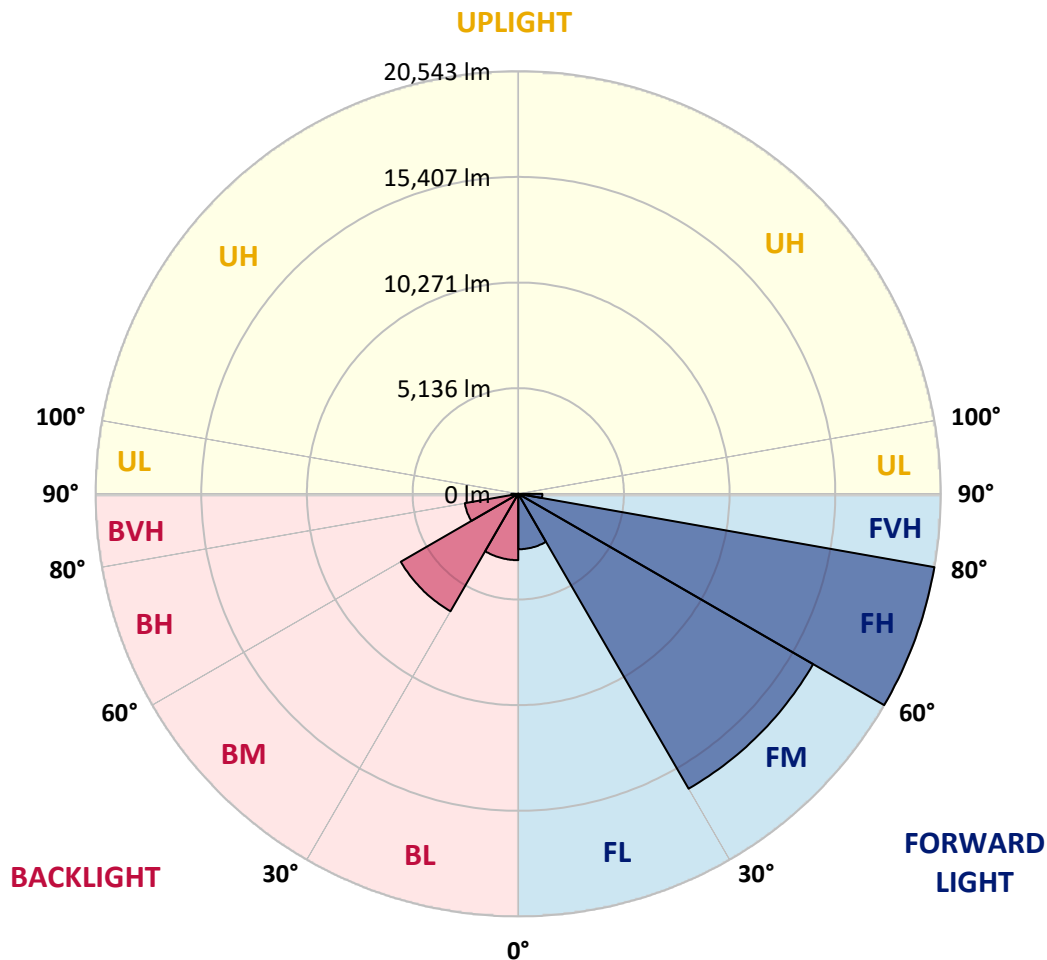


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2695.5 | 5.0 | | | |
| FM (30°-60°) | 16552.4 | 30.8 | | | |
| FH (60°-80°) | 20542.8 | 38.2 | | | G5 |
| FVH (80°-90°) | 1168.9 | 2.2 | | | G5 |
| BL (0°-30°) | 3223.6 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 6590.9 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2637.2 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 339.7 | 0.6 | | | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 |
| 2.5° | 6604.8 | 6645.5 | 6662.9 | 6654.2 | 6697.8 | 6692.0 | 6753.0 | 6828.5 | 6933.1 | 7034.8 |
| 5° | 6096.3 | 6139.9 | 6177.6 | 6212.5 | 6296.8 | 6322.9 | 6418.8 | 6564.1 | 6755.9 | 6950.6 |
| 7.5° | 5622.6 | 5660.4 | 5718.5 | 5782.5 | 5924.8 | 5951.0 | 6110.8 | 6337.5 | 6604.8 | 6889.5 |
| 10° | 5236.2 | 5273.9 | 5335.0 | 5407.6 | 5584.9 | 5616.8 | 5820.2 | 6122.4 | 6471.1 | 6831.4 |
| 12.5° | 5070.5 | 5082.2 | 5117.0 | 5189.7 | 5343.7 | 5364.0 | 5587.8 | 5933.6 | 6340.4 | 6787.8 |
| 15° | 5061.8 | 5085.1 | 5088.0 | 5125.8 | 5253.6 | 5262.3 | 5468.6 | 5811.5 | 6259.0 | 6779.1 |
| 17.5° | 5149.0 | 5166.4 | 5140.3 | 5163.5 | 5271.0 | 5285.6 | 5448.3 | 5753.4 | 6232.8 | 6816.9 |
| 20° | 5381.5 | 5396.0 | 5317.5 | 5285.6 | 5364.0 | 5375.6 | 5535.5 | 5791.2 | 6259.0 | 6895.4 |
| 22.5° | 5875.4 | 5884.2 | 5692.4 | 5561.6 | 5567.4 | 5573.2 | 5712.7 | 5945.2 | 6360.7 | 7037.7 |
| 25° | 6645.5 | 6639.6 | 6334.5 | 6081.7 | 5936.5 | 5904.5 | 5997.5 | 6195.1 | 6532.1 | 7226.6 |
| 27.5° | 7546.2 | 7502.7 | 7197.6 | 6819.8 | 6503.1 | 6456.6 | 6436.2 | 6520.5 | 6776.2 | 7476.5 |
| 30° | 8563.3 | 8522.6 | 8194.2 | 7700.2 | 7261.5 | 7185.9 | 6994.2 | 6950.6 | 7139.4 | 7816.5 |
| 32.5° | 9679.1 | 9652.9 | 9260.6 | 8662.1 | 8075.1 | 7987.9 | 7665.4 | 7549.1 | 7697.3 | 8330.8 |
| 35° | 10614.7 | 10591.5 | 10266.0 | 9650.0 | 8932.3 | 8824.8 | 8496.4 | 8365.7 | 8441.2 | 8990.4 |
| 37.5° | 11460.3 | 11448.7 | 11169.7 | 10684.5 | 9943.5 | 9812.7 | 9443.7 | 9400.1 | 9385.6 | 9859.2 |
| 40° | 12244.8 | 12215.8 | 11925.2 | 11669.5 | 11120.3 | 11001.2 | 10675.7 | 10638.0 | 10527.5 | 10928.5 |
| 42.5° | 13113.7 | 13038.1 | 12616.8 | 12497.6 | 12349.5 | 12250.7 | 12056.0 | 12061.8 | 11817.7 | 12134.4 |
| 45° | 13822.7 | 13779.1 | 13346.1 | 13276.4 | 13436.2 | 13395.5 | 13564.1 | 13607.6 | 13134.0 | 13398.4 |
| 47.5° | 14584.0 | 14543.3 | 14177.2 | 14127.8 | 14560.7 | 14572.4 | 15168.0 | 15182.6 | 14418.4 | 14711.8 |
| 50° | 15522.5 | 15464.4 | 15101.2 | 15162.2 | 15647.5 | 15691.1 | 16780.7 | 16681.9 | 15601.0 | 16045.6 |
| 52.5° | 16141.5 | 16176.3 | 16097.9 | 16196.7 | 16859.2 | 16899.9 | 18367.3 | 18114.5 | 16772.0 | 17361.9 |
| 55° | 16597.7 | 16667.4 | 16911.5 | 17138.1 | 18137.7 | 18178.4 | 19863.7 | 19477.3 | 17742.5 | 18582.3 |
| 57.5° | 17184.6 | 17085.8 | 17542.0 | 17983.7 | 19352.3 | 19459.8 | 21319.5 | 20790.7 | 18602.6 | 19634.2 |
| 60° | 18027.3 | 17957.6 | 18312.1 | 18965.9 | 20712.2 | 20883.7 | 22859.6 | 21973.3 | 19233.2 | 20468.1 |
| 62.5° | 19735.9 | 19561.5 | 19616.7 | 20195.0 | 22426.6 | 22653.3 | 24597.2 | 23004.9 | 19547.0 | 20793.6 |
| 65° | 22290.0 | 21990.7 | 21711.8 | 22112.8 | 24841.3 | 25065.0 | 26558.6 | 23815.6 | 19430.8 | 20163.0 |
| 67.5° | 25506.7 | 25210.3 | 24867.4 | 25245.2 | 28397.9 | 28575.2 | 28979.1 | 24271.8 | 18515.5 | 17733.8 |
| 70° | 28159.7 | 28049.2 | 28459.0 | 30013.5 | 34078.7 | 34084.5 | 32082.4 | 23894.0 | 16007.8 | 12573.2 |
| 72.5° | 27808.1 | 27741.2 | 29900.2 | 34706.3 | 41238.5 | 41084.5 | 35020.2 | 21034.8 | 10783.3 | 5672.0 |
| 75° | 22813.1 | 23246.0 | 26590.6 | 34622.1 | 43810.1 | 43789.7 | 33221.5 | 13372.3 | 4460.3 | 2350.8 |
| 77.5° | 12233.2 | 12919.0 | 17263.1 | 25561.9 | 34200.7 | 34715.0 | 23356.5 | 4678.3 | 1914.9 | 1505.2 |
| 80° | 3989.6 | 4588.2 | 6880.8 | 13014.9 | 22223.2 | 22127.3 | 10010.3 | 1836.4 | 1310.5 | 1066.4 |
| 82.5° | 1694.1 | 1763.8 | 3074.3 | 6145.7 | 11405.1 | 11227.8 | 3187.6 | 1054.8 | 921.1 | 729.3 |
| 85° | 662.5 | 741.0 | 1357.0 | 2841.8 | 4939.8 | 4832.3 | 1150.7 | 523.0 | 589.9 | 476.5 |
| 87.5° | 217.9 | 264.4 | 485.3 | 973.4 | 1537.1 | 1481.9 | 281.9 | 180.2 | 255.7 | 217.9 |
| 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-SB5D-740-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7162.7 | 0° | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 | 7162.7 |
| 7183.0 | 2.5° | 7223.7 | 7270.2 | 7325.4 | 7406.8 | 7476.5 | 7534.6 | 7595.6 | 7633.4 | 7647.9 | 7691.5 |
| 7194.6 | 5° | 7276.0 | 7377.7 | 7514.3 | 7647.9 | 7778.7 | 7857.2 | 7926.9 | 7961.8 | 7993.7 | 8017.0 |
| 7226.6 | 7.5° | 7363.2 | 7493.9 | 7709.0 | 7883.3 | 7993.7 | 8057.7 | 8104.1 | 8092.5 | 8104.1 | 8110.0 |
| 7261.5 | 10° | 7438.7 | 7621.8 | 7877.5 | 8043.1 | 8127.4 | 8130.3 | 8118.7 | 8078.0 | 8057.7 | 8060.6 |
| 7313.8 | 12.5° | 7528.8 | 7732.2 | 8008.3 | 8147.7 | 8171.0 | 8107.1 | 8057.7 | 7987.9 | 7961.8 | 7950.1 |
| 7392.2 | 15° | 7650.9 | 7883.3 | 8150.6 | 8202.9 | 8144.8 | 8063.5 | 7979.2 | 7865.9 | 7807.8 | 7761.3 |
| 7525.9 | 17.5° | 7799.0 | 8054.8 | 8261.1 | 8223.3 | 8098.3 | 7964.7 | 7828.1 | 7656.7 | 7537.5 | 7488.1 |
| 7709.0 | 20° | 8005.4 | 8234.9 | 8345.3 | 8179.7 | 7990.8 | 7787.4 | 7555.0 | 7345.7 | 7235.3 | 7185.9 |
| 7941.4 | 22.5° | 8255.2 | 8476.1 | 8426.7 | 8104.1 | 7836.8 | 7511.4 | 7220.8 | 7066.8 | 7011.6 | 6976.7 |
| 8240.7 | 25° | 8554.5 | 8743.4 | 8484.8 | 7993.7 | 7584.0 | 7145.2 | 6921.5 | 6872.1 | 6846.0 | 6819.8 |
| 8606.8 | 27.5° | 8943.9 | 9045.6 | 8528.4 | 7831.0 | 7188.8 | 6755.9 | 6674.5 | 6683.2 | 6674.5 | 6630.9 |
| 9115.4 | 30° | 9458.2 | 9437.9 | 8569.1 | 7566.6 | 6735.5 | 6404.3 | 6410.1 | 6447.9 | 6453.7 | 6424.6 |
| 9824.4 | 32.5° | 10135.3 | 9929.0 | 8589.4 | 7223.7 | 6302.6 | 6096.3 | 6102.1 | 6142.8 | 6171.8 | 6122.4 |
| 10751.3 | 35° | 10954.7 | 10501.4 | 8557.4 | 6793.7 | 5968.4 | 5802.8 | 5759.2 | 5770.8 | 5779.5 | 5733.1 |
| 11875.8 | 37.5° | 11910.7 | 11143.6 | 8415.1 | 6317.1 | 5692.4 | 5515.1 | 5422.1 | 5343.7 | 5297.2 | 5253.6 |
| 13148.5 | 40° | 12959.7 | 11843.9 | 8153.5 | 5852.2 | 5384.4 | 5210.0 | 5070.5 | 4922.3 | 4765.4 | 4707.3 |
| 14496.8 | 42.5° | 14058.0 | 12564.5 | 7836.8 | 5407.6 | 5029.9 | 4887.5 | 4739.3 | 4524.3 | 4288.9 | 4169.8 |
| 15897.4 | 45° | 15197.1 | 13302.5 | 7525.9 | 4968.8 | 4666.6 | 4605.6 | 4434.2 | 4175.6 | 3919.9 | 3768.8 |
| 17300.9 | 47.5° | 16312.9 | 13999.9 | 7069.7 | 4527.2 | 4326.7 | 4393.5 | 4259.8 | 4021.6 | 3736.8 | 3498.5 |
| 18692.7 | 50° | 17379.3 | 14653.7 | 6322.9 | 4079.7 | 4050.6 | 4329.6 | 4201.7 | 3858.8 | 3533.4 | 3228.3 |
| 20058.4 | 52.5° | 18437.0 | 15182.6 | 5366.9 | 3672.9 | 3902.4 | 4312.1 | 4126.2 | 3748.4 | 3350.3 | 3030.7 |
| 21342.8 | 55° | 19334.9 | 15455.7 | 4445.8 | 3324.2 | 3687.4 | 4163.9 | 4036.1 | 3617.7 | 3091.7 | 2751.7 |
| 22223.2 | 57.5° | 19846.3 | 15234.9 | 3678.7 | 2981.3 | 3391.0 | 3919.9 | 3882.1 | 3338.7 | 2783.7 | 2522.2 |
| 22394.6 | 60° | 19625.5 | 14339.9 | 3051.0 | 2682.0 | 3109.2 | 3655.4 | 3614.8 | 3062.7 | 2548.3 | 2301.4 |
| 21476.4 | 62.5° | 18408.0 | 12634.2 | 2554.2 | 2420.5 | 2853.5 | 3385.2 | 3347.4 | 2850.5 | 2368.2 | 2129.9 |
| 19038.5 | 65° | 15955.5 | 10277.7 | 2167.7 | 2202.6 | 2594.8 | 3059.8 | 3115.0 | 2673.3 | 2225.8 | 1993.3 |
| 14729.3 | 67.5° | 12169.3 | 7444.5 | 1865.5 | 2013.7 | 2342.0 | 2740.1 | 2899.9 | 2545.4 | 2106.7 | 1885.8 |
| 8522.6 | 70° | 6936.0 | 4227.9 | 1609.8 | 1830.6 | 2118.3 | 2443.7 | 2734.3 | 2443.7 | 1978.8 | 1795.8 |
| 3193.4 | 72.5° | 2629.7 | 1941.0 | 1391.9 | 1647.6 | 1903.3 | 2193.8 | 2551.3 | 2283.9 | 1830.6 | 1694.1 |
| 1650.5 | 75° | 1403.5 | 1182.6 | 1171.0 | 1432.5 | 1656.3 | 1949.8 | 2321.7 | 2127.0 | 1720.2 | 1789.9 |
| 1142.0 | 77.5° | 956.0 | 836.9 | 979.2 | 1226.2 | 1386.0 | 1679.5 | 2077.6 | 1888.7 | 1490.7 | 1484.8 |
| 790.4 | 80° | 662.5 | 592.8 | 796.2 | 988.0 | 1072.2 | 1412.2 | 1813.2 | 1621.4 | 1214.6 | 1133.2 |
| 488.2 | 82.5° | 398.1 | 386.5 | 595.7 | 738.1 | 758.4 | 1089.7 | 1502.3 | 1359.9 | 993.8 | 865.9 |
| 290.6 | 85° | 217.9 | 229.6 | 380.7 | 433.0 | 441.7 | 761.3 | 1176.8 | 1051.9 | 764.2 | 642.2 |
| 104.6 | 87.5° | 61.0 | 78.5 | 139.5 | 171.4 | 212.1 | 395.2 | 700.3 | 624.7 | 383.6 | 267.3 |
| 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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| 180° |
|--------|
| 7162.7 |
| 7688.6 |
| 8022.8 |
| 8118.7 |
| 8066.4 |
| 7944.3 |
| 7775.8 |
| 7491.0 |
| 7180.1 |
| 6982.5 |
| 6819.8 |
| 6639.6 |
| 6439.2 |
| 6145.7 |
| 5765.0 |
| 5282.7 |
| 4733.5 |
| 4184.3 |
| 3757.1 |
| 3472.4 |
| 3202.1 |
| 2995.8 |
| 2722.7 |
| 2487.3 |
| 2266.5 |
| 2092.1 |
| 1955.6 |
| 1851.0 |
| 1772.5 |
| 1670.8 |
| 1848.1 |
| 1368.6 |
| 1083.8 |
| 871.7 |
| 648.0 |
| 267.3 |
| 0.0 |

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