

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: P852699

Luminaire Tested: **GLAN-SB5D-730-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852699
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49077 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

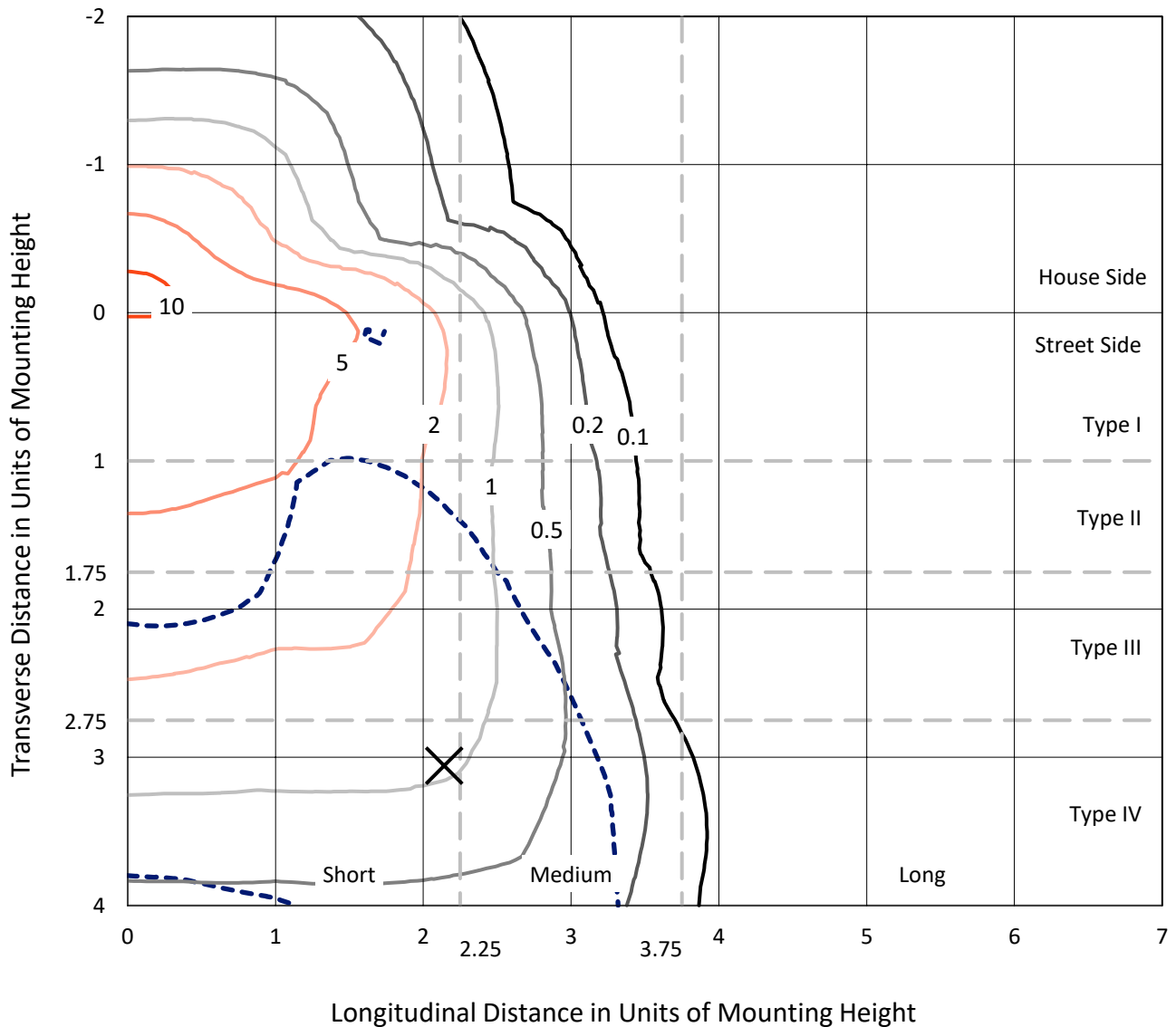
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

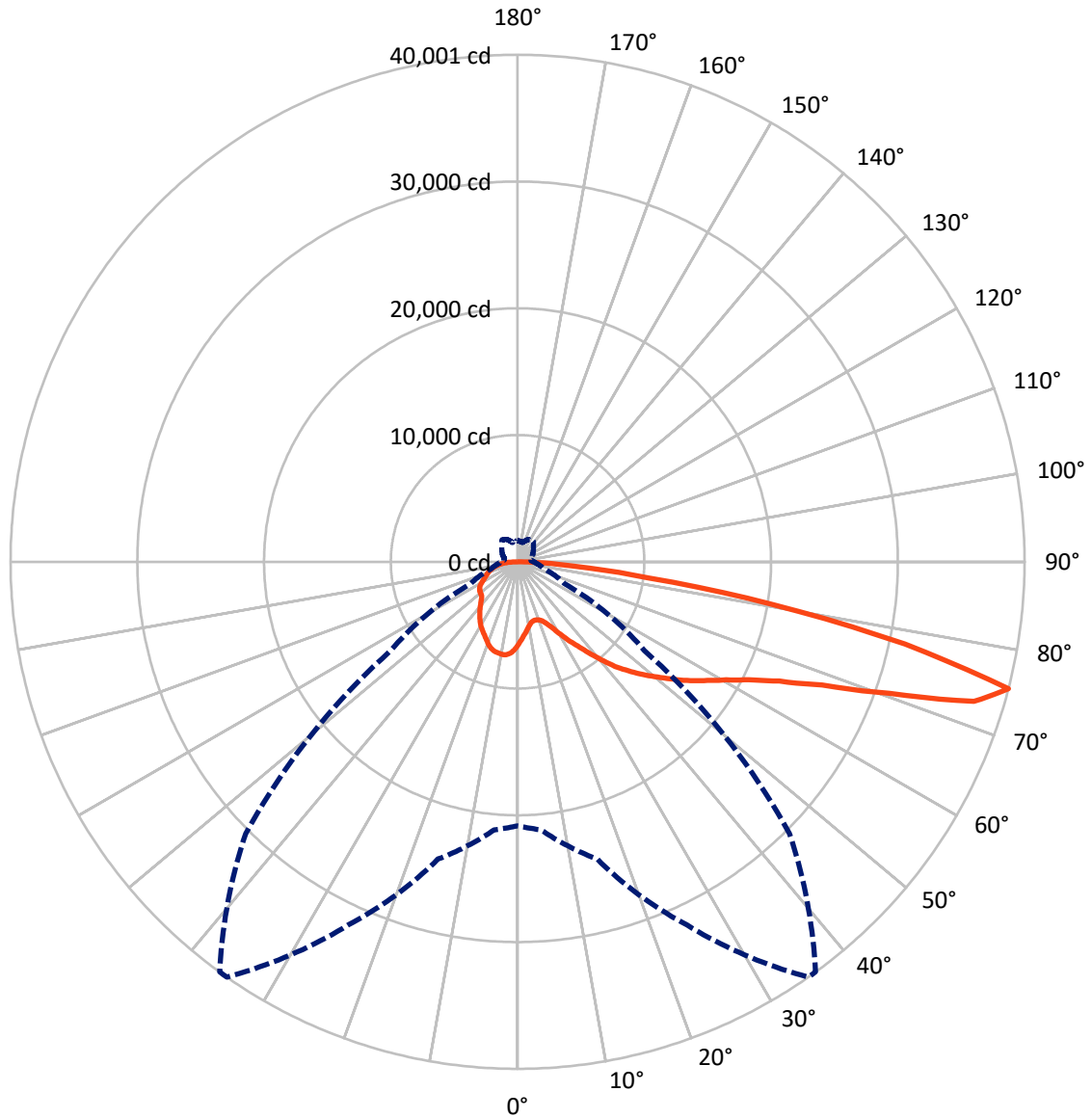
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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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 | 11679.1 | 0.0 | 11679.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 37397.9 | 0.0 | 37397.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 49077.0 | 0.0 | 49077.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 619.2 | 1.3 |
| 10°-20° | 1786.0 | 3.6 |
| 20°-30° | 2999.2 | 6.1 |
| 30°-40° | 4661.2 | 9.5 |
| 40°-50° | 6918.4 | 14.1 |
| 50°-60° | 9551.3 | 19.5 |
| 60°-70° | 11587.9 | 23.6 |
| 70°-80° | 9576.5 | 19.5 |
| 80°-90° | 1377.4 | 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° | 49077.0 | 100.0 |
| 0°-180° | 49077.0 | 100.0 |

Coefficient of Utilization



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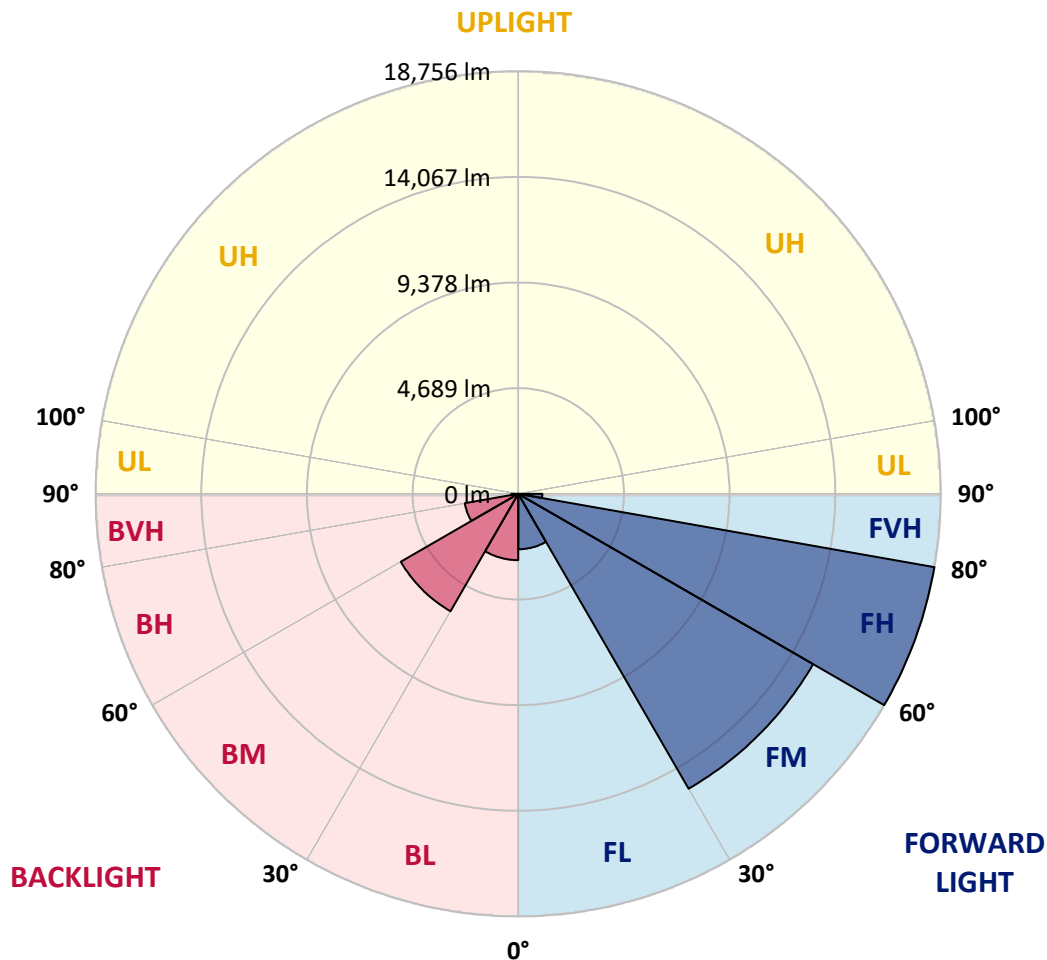
CATALOG NUMBER: GLAN-SB5D-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2461.1 | 5.0 | | | |
| FM (30°-60°) | 15113.1 | 30.8 | | | |
| FH (60°-80°) | 18756.5 | 38.2 | | | G5 |
| FVH (80°-90°) | 1067.2 | 2.2 | | | G5 |
| BL (0°-30°) | 2943.3 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 6017.8 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2407.9 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 310.2 | 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° | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 |
| 2.5° | 6030.5 | 6067.6 | 6083.5 | 6075.6 | 6115.3 | 6110.0 | 6165.8 | 6234.7 | 6330.2 | 6423.1 |
| 5° | 5566.2 | 5606.0 | 5640.4 | 5672.3 | 5749.2 | 5773.1 | 5860.7 | 5993.3 | 6168.4 | 6346.2 |
| 7.5° | 5133.7 | 5168.2 | 5221.3 | 5279.6 | 5409.6 | 5433.5 | 5579.4 | 5786.4 | 6030.5 | 6290.5 |
| 10° | 4780.9 | 4815.3 | 4871.1 | 4937.4 | 5099.2 | 5128.4 | 5314.1 | 5590.0 | 5908.4 | 6237.4 |
| 12.5° | 4629.6 | 4640.2 | 4672.1 | 4738.4 | 4879.0 | 4897.6 | 5101.9 | 5417.6 | 5789.0 | 6197.6 |
| 15° | 4621.7 | 4642.9 | 4645.5 | 4680.0 | 4796.8 | 4804.7 | 4993.1 | 5306.2 | 5714.7 | 6189.6 |
| 17.5° | 4701.3 | 4717.2 | 4693.3 | 4714.5 | 4812.7 | 4826.0 | 4974.5 | 5253.1 | 5690.9 | 6224.1 |
| 20° | 4913.5 | 4926.8 | 4855.1 | 4826.0 | 4897.6 | 4908.2 | 5054.1 | 5287.6 | 5714.7 | 6295.8 |
| 22.5° | 5364.5 | 5372.5 | 5197.4 | 5078.0 | 5083.3 | 5088.6 | 5216.0 | 5428.2 | 5807.6 | 6425.8 |
| 25° | 6067.6 | 6062.3 | 5783.7 | 5552.9 | 5420.2 | 5391.1 | 5476.0 | 5656.4 | 5964.1 | 6598.2 |
| 27.5° | 6890.0 | 6850.3 | 6571.7 | 6226.8 | 5937.6 | 5895.1 | 5876.6 | 5953.5 | 6187.0 | 6826.4 |
| 30° | 7818.6 | 7781.5 | 7481.7 | 7030.7 | 6630.0 | 6561.1 | 6386.0 | 6346.2 | 6518.6 | 7136.8 |
| 32.5° | 8837.4 | 8813.5 | 8455.4 | 7908.8 | 7372.9 | 7293.3 | 6998.8 | 6892.7 | 7028.0 | 7606.4 |
| 35° | 9691.7 | 9670.5 | 9373.3 | 8810.9 | 8155.6 | 8057.4 | 7757.6 | 7638.2 | 7707.2 | 8208.6 |
| 37.5° | 10463.7 | 10453.1 | 10198.4 | 9755.4 | 9078.8 | 8959.5 | 8622.5 | 8582.7 | 8569.4 | 9001.9 |
| 40° | 11180.1 | 11153.5 | 10888.2 | 10654.8 | 10153.3 | 10044.6 | 9747.4 | 9712.9 | 9612.1 | 9978.2 |
| 42.5° | 11973.4 | 11904.4 | 11519.7 | 11410.9 | 11275.6 | 11185.4 | 11007.6 | 11012.9 | 10790.1 | 11079.3 |
| 45° | 12620.7 | 12580.9 | 12185.6 | 12121.9 | 12267.8 | 12230.7 | 12384.6 | 12424.4 | 11991.9 | 12233.4 |
| 47.5° | 13315.8 | 13278.7 | 12944.4 | 12899.3 | 13294.6 | 13305.2 | 13849.1 | 13862.3 | 13164.6 | 13432.5 |
| 50° | 14172.8 | 14119.7 | 13788.1 | 13843.8 | 14286.8 | 14326.6 | 15321.5 | 15231.3 | 14244.4 | 14650.3 |
| 52.5° | 14737.9 | 14769.7 | 14698.1 | 14788.3 | 15393.2 | 15430.3 | 16770.1 | 16539.3 | 15313.6 | 15852.2 |
| 55° | 15154.4 | 15218.1 | 15440.9 | 15647.9 | 16560.5 | 16597.7 | 18136.5 | 17783.6 | 16199.7 | 16966.4 |
| 57.5° | 15690.3 | 15600.1 | 16016.6 | 16419.9 | 17669.5 | 17767.7 | 19465.6 | 18982.8 | 16985.0 | 17926.9 |
| 60° | 16459.7 | 16396.0 | 16719.7 | 17316.7 | 18911.2 | 19067.7 | 20871.8 | 20062.6 | 17560.7 | 18688.3 |
| 62.5° | 18019.7 | 17860.5 | 17910.9 | 18438.9 | 20476.5 | 20683.4 | 22458.3 | 21004.4 | 17847.3 | 18985.4 |
| 65° | 20351.8 | 20078.5 | 19823.8 | 20189.9 | 22681.2 | 22885.5 | 24249.2 | 21744.6 | 17741.1 | 18409.7 |
| 67.5° | 23288.7 | 23018.1 | 22705.1 | 23050.0 | 25928.6 | 26090.4 | 26459.2 | 22161.2 | 16905.4 | 16191.7 |
| 70° | 25711.0 | 25610.2 | 25984.3 | 27403.7 | 31115.3 | 31120.6 | 29292.7 | 21816.3 | 14615.8 | 11479.9 |
| 72.5° | 25390.0 | 25329.0 | 27300.2 | 31688.4 | 37652.5 | 37511.9 | 31974.9 | 19205.6 | 9845.6 | 5178.8 |
| 75° | 20829.3 | 21224.6 | 24278.3 | 31611.4 | 40000.5 | 39981.9 | 30332.7 | 12209.5 | 4072.5 | 2146.3 |
| 77.5° | 11169.5 | 11795.6 | 15761.9 | 23339.1 | 31226.8 | 31696.3 | 21325.5 | 4271.5 | 1748.4 | 1374.3 |
| 80° | 3642.7 | 4189.2 | 6282.5 | 11883.1 | 20290.8 | 20203.2 | 9139.9 | 1676.7 | 1196.5 | 973.7 |
| 82.5° | 1546.7 | 1610.4 | 2807.0 | 5611.3 | 10413.3 | 10251.5 | 2910.4 | 963.1 | 841.0 | 665.9 |
| 85° | 604.9 | 676.5 | 1239.0 | 2594.7 | 4510.2 | 4412.1 | 1050.6 | 477.6 | 538.6 | 435.1 |
| 87.5° | 199.0 | 241.4 | 443.1 | 888.8 | 1403.5 | 1353.1 | 257.3 | 164.5 | 233.5 | 199.0 |
| 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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 CATALOG NUMBER: GLAN-SB5D-730-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6539.8 | 0° | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 | 6539.8 |
| 6558.4 | 2.5° | 6595.6 | 6638.0 | 6688.4 | 6762.7 | 6826.4 | 6879.4 | 6935.2 | 6969.6 | 6982.9 | 7022.7 |
| 6569.0 | 5° | 6643.3 | 6736.2 | 6860.9 | 6982.9 | 7102.3 | 7173.9 | 7237.6 | 7269.4 | 7298.6 | 7319.8 |
| 6598.2 | 7.5° | 6722.9 | 6842.3 | 7038.6 | 7197.8 | 7298.6 | 7357.0 | 7399.4 | 7388.8 | 7399.4 | 7404.7 |
| 6630.0 | 10° | 6791.9 | 6959.0 | 7192.5 | 7343.7 | 7420.7 | 7423.3 | 7412.7 | 7375.6 | 7357.0 | 7359.6 |
| 6677.8 | 12.5° | 6874.1 | 7059.8 | 7311.9 | 7439.2 | 7460.5 | 7402.1 | 7357.0 | 7293.3 | 7269.4 | 7258.8 |
| 6749.4 | 15° | 6985.6 | 7197.8 | 7441.9 | 7489.6 | 7436.6 | 7362.3 | 7285.4 | 7181.9 | 7128.8 | 7086.4 |
| 6871.5 | 17.5° | 7120.9 | 7354.3 | 7542.7 | 7508.2 | 7394.1 | 7272.1 | 7147.4 | 6990.9 | 6882.1 | 6837.0 |
| 7038.6 | 20° | 7309.2 | 7518.8 | 7619.6 | 7468.4 | 7296.0 | 7110.3 | 6898.0 | 6707.0 | 6606.2 | 6561.1 |
| 7250.9 | 22.5° | 7537.4 | 7739.0 | 7693.9 | 7399.4 | 7155.4 | 6858.2 | 6592.9 | 6452.3 | 6401.9 | 6370.0 |
| 7524.1 | 25° | 7810.7 | 7983.1 | 7747.0 | 7298.6 | 6924.5 | 6523.9 | 6319.6 | 6274.5 | 6250.7 | 6226.8 |
| 7858.4 | 27.5° | 8166.2 | 8259.0 | 7786.8 | 7150.1 | 6563.7 | 6168.4 | 6094.1 | 6102.1 | 6094.1 | 6054.3 |
| 8322.7 | 30° | 8635.8 | 8617.2 | 7823.9 | 6908.6 | 6149.8 | 5847.4 | 5852.7 | 5887.2 | 5892.5 | 5866.0 |
| 8970.1 | 32.5° | 9253.9 | 9065.6 | 7842.5 | 6595.6 | 5754.5 | 5566.2 | 5571.5 | 5608.6 | 5635.1 | 5590.0 |
| 9816.4 | 35° | 10002.1 | 9588.2 | 7813.3 | 6202.9 | 5449.4 | 5298.2 | 5258.4 | 5269.0 | 5277.0 | 5234.5 |
| 10843.1 | 37.5° | 10875.0 | 10174.6 | 7683.3 | 5767.8 | 5197.4 | 5035.5 | 4950.6 | 4879.0 | 4836.6 | 4796.8 |
| 12005.2 | 40° | 11832.7 | 10814.0 | 7444.5 | 5343.3 | 4916.2 | 4757.0 | 4629.6 | 4494.3 | 4351.1 | 4298.0 |
| 13236.2 | 42.5° | 12835.6 | 11471.9 | 7155.4 | 4937.4 | 4592.5 | 4462.5 | 4327.2 | 4130.8 | 3915.9 | 3807.2 |
| 14515.0 | 45° | 13875.6 | 12145.8 | 6871.5 | 4536.8 | 4260.8 | 4205.1 | 4048.6 | 3812.5 | 3579.0 | 3441.0 |
| 15796.4 | 47.5° | 14894.4 | 12782.5 | 6454.9 | 4133.5 | 3950.4 | 4011.5 | 3889.4 | 3671.9 | 3411.9 | 3194.3 |
| 17067.3 | 50° | 15868.1 | 13379.5 | 5773.1 | 3724.9 | 3698.4 | 3953.1 | 3836.4 | 3523.3 | 3226.1 | 2947.6 |
| 18314.2 | 52.5° | 16833.8 | 13862.3 | 4900.2 | 3353.5 | 3563.1 | 3937.2 | 3767.4 | 3422.5 | 3059.0 | 2767.2 |
| 19486.9 | 55° | 17653.6 | 14111.7 | 4059.2 | 3035.1 | 3366.8 | 3801.9 | 3685.1 | 3303.1 | 2822.9 | 2512.5 |
| 20290.8 | 57.5° | 18120.5 | 13910.1 | 3358.8 | 2722.1 | 3096.1 | 3579.0 | 3544.5 | 3048.4 | 2541.7 | 2302.9 |
| 20447.3 | 60° | 17918.9 | 13092.9 | 2785.7 | 2448.8 | 2838.8 | 3337.6 | 3300.4 | 2796.3 | 2326.8 | 2101.2 |
| 19608.9 | 62.5° | 16807.3 | 11535.6 | 2332.1 | 2210.0 | 2605.3 | 3090.8 | 3056.3 | 2602.7 | 2162.3 | 1944.7 |
| 17383.0 | 65° | 14568.1 | 9383.9 | 1979.2 | 2011.0 | 2369.2 | 2793.7 | 2844.1 | 2440.8 | 2032.3 | 1820.0 |
| 13448.5 | 67.5° | 11111.1 | 6797.2 | 1703.3 | 1838.6 | 2138.4 | 2501.9 | 2647.8 | 2324.1 | 1923.5 | 1721.8 |
| 7781.5 | 70° | 6332.9 | 3860.2 | 1469.8 | 1671.4 | 1934.1 | 2231.2 | 2496.5 | 2231.2 | 1806.7 | 1639.6 |
| 2915.7 | 72.5° | 2401.0 | 1772.3 | 1270.8 | 1504.3 | 1737.8 | 2003.1 | 2329.4 | 2085.3 | 1671.4 | 1546.7 |
| 1506.9 | 75° | 1281.4 | 1079.8 | 1069.2 | 1308.0 | 1512.3 | 1780.2 | 2119.8 | 1942.1 | 1570.6 | 1634.3 |
| 1042.7 | 77.5° | 872.9 | 764.1 | 894.1 | 1119.6 | 1265.5 | 1533.5 | 1897.0 | 1724.5 | 1361.0 | 1355.7 |
| 721.6 | 80° | 604.9 | 541.2 | 726.9 | 902.0 | 979.0 | 1289.4 | 1655.5 | 1480.4 | 1109.0 | 1034.7 |
| 445.7 | 82.5° | 363.5 | 352.9 | 543.9 | 673.9 | 692.5 | 994.9 | 1371.6 | 1241.6 | 907.4 | 790.6 |
| 265.3 | 85° | 199.0 | 209.6 | 347.6 | 395.3 | 403.3 | 695.1 | 1074.5 | 960.4 | 697.8 | 586.3 |
| 95.5 | 87.5° | 55.7 | 71.6 | 127.3 | 156.5 | 193.7 | 360.8 | 639.4 | 570.4 | 350.2 | 244.1 |
| 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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| <u>180°</u> |
|-------------|
| 6539.8 |
| 7020.0 |
| 7325.2 |
| 7412.7 |
| 7365.0 |
| 7253.5 |
| 7099.6 |
| 6839.6 |
| 6555.8 |
| 6375.4 |
| 6226.8 |
| 6062.3 |
| 5879.2 |
| 5611.3 |
| 5263.7 |
| 4823.3 |
| 4321.9 |
| 3820.4 |
| 3430.4 |
| 3170.4 |
| 2923.7 |
| 2735.3 |
| 2485.9 |
| 2271.0 |
| 2069.4 |
| 1910.2 |
| 1785.5 |
| 1690.0 |
| 1618.4 |
| 1525.5 |
| 1687.4 |
| 1249.6 |
| 989.6 |
| 795.9 |
| 591.6 |
| 244.1 |
| 0.0 |

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