

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: P320978

Luminaire Tested: **GAN-SA4D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32110 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

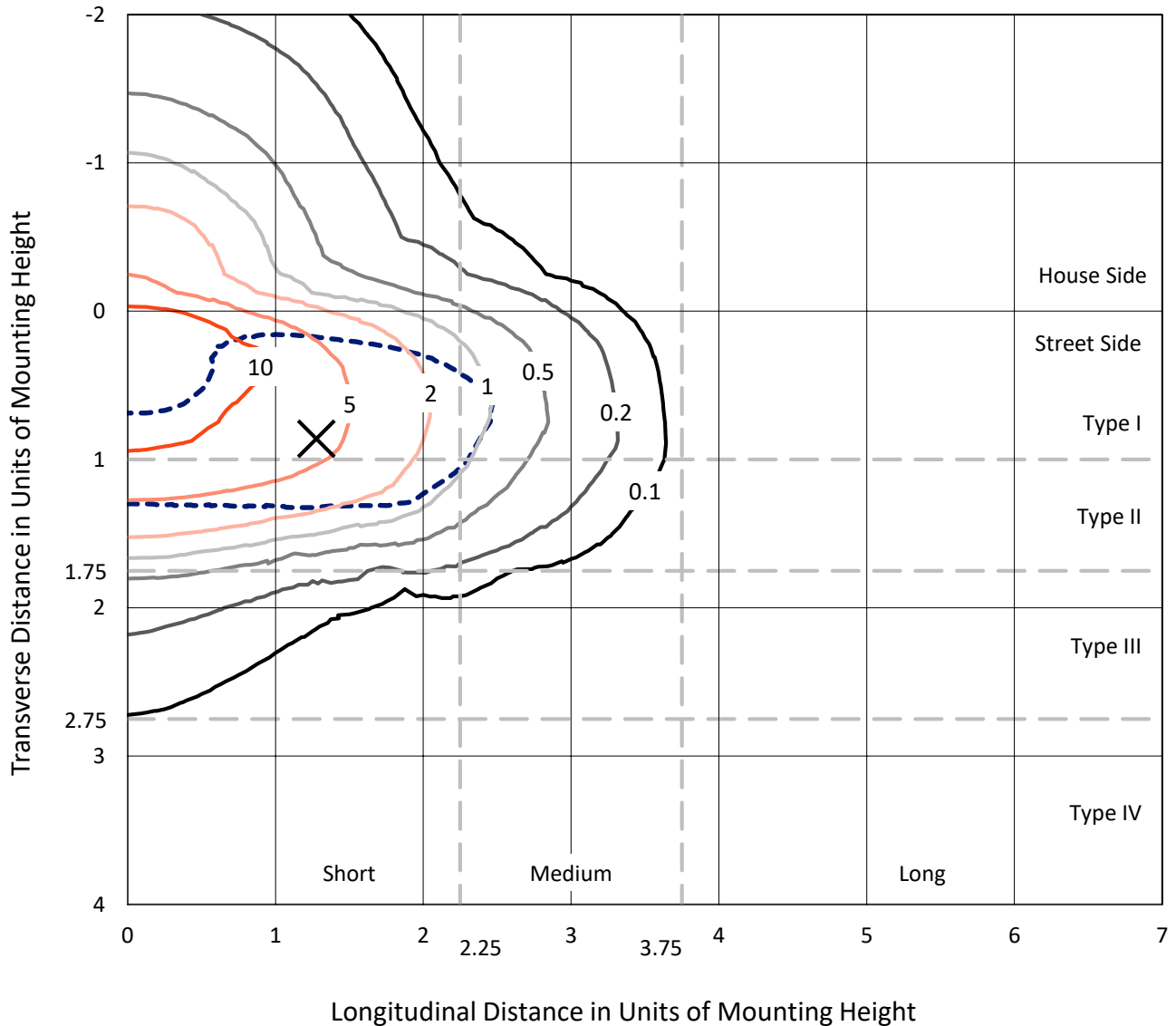
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

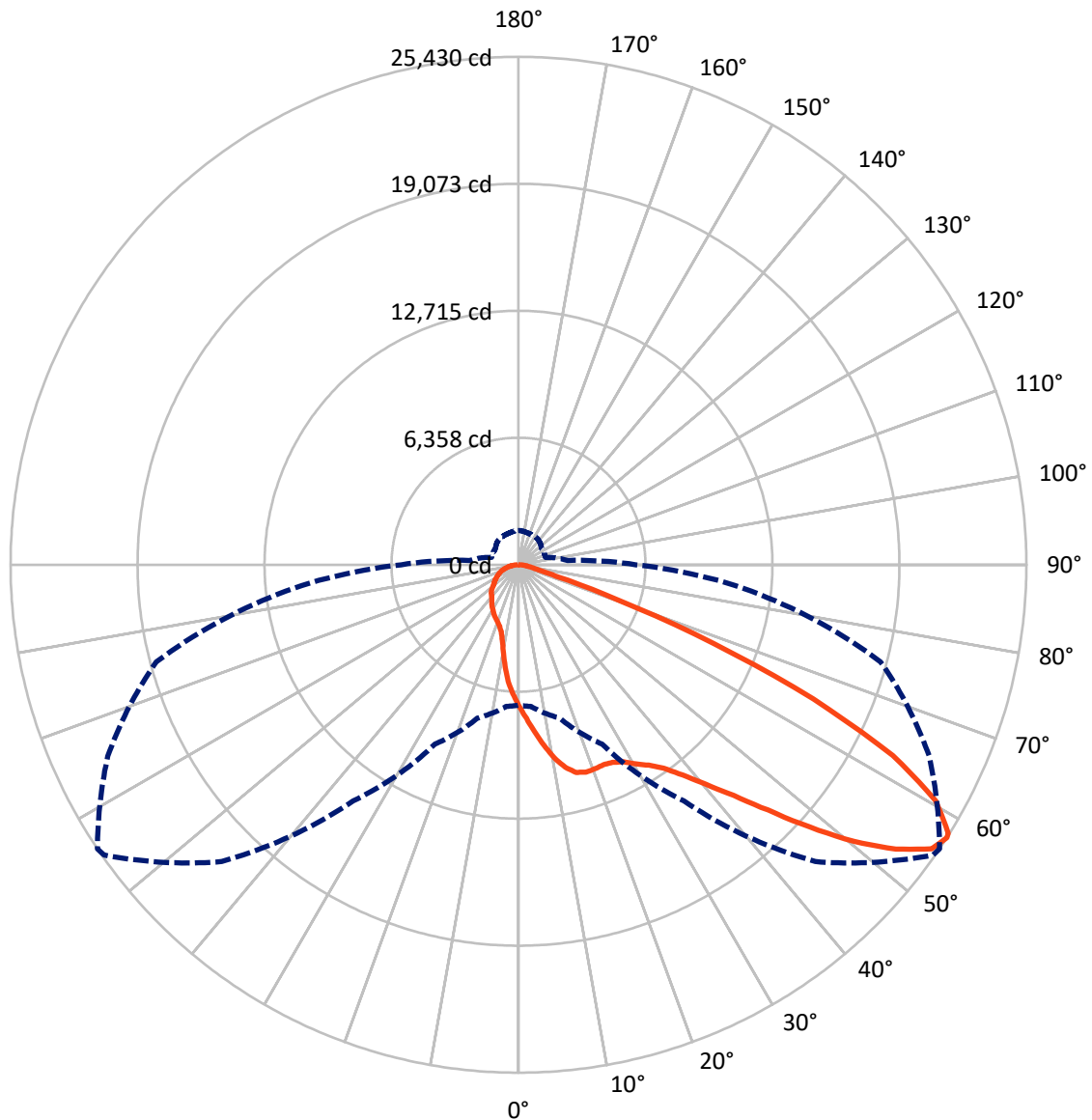
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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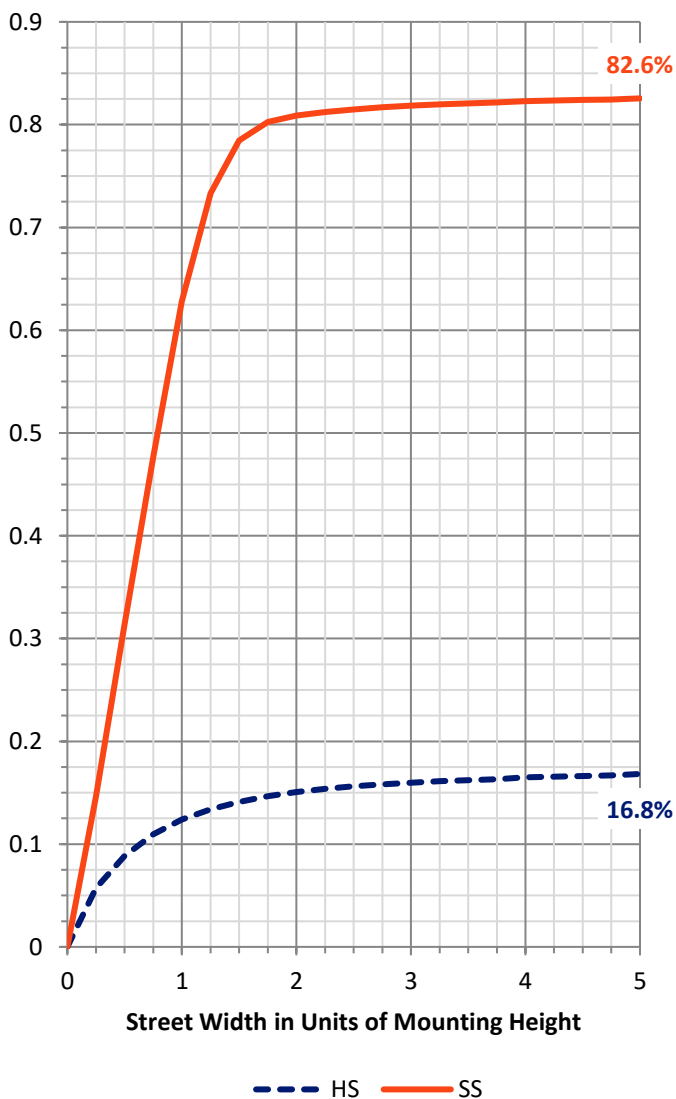
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5535.1	0.0	5535.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	26574.9	0.0	26574.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	32110.0	0.0	32110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.3	2.1
10°-20°	1923.5	6.0
20°-30°	3132.9	9.8
30°-40°	4683.4	14.6
40°-50°	7103.7	22.1
50°-60°	7962.0	24.8
60°-70°	4702.7	14.6
70°-80°	1540.8	4.8
80°-90°	380.7	1.2
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°	32110.0	100.0
0°-180°	32110.0	100.0

Coefficient of Utilization

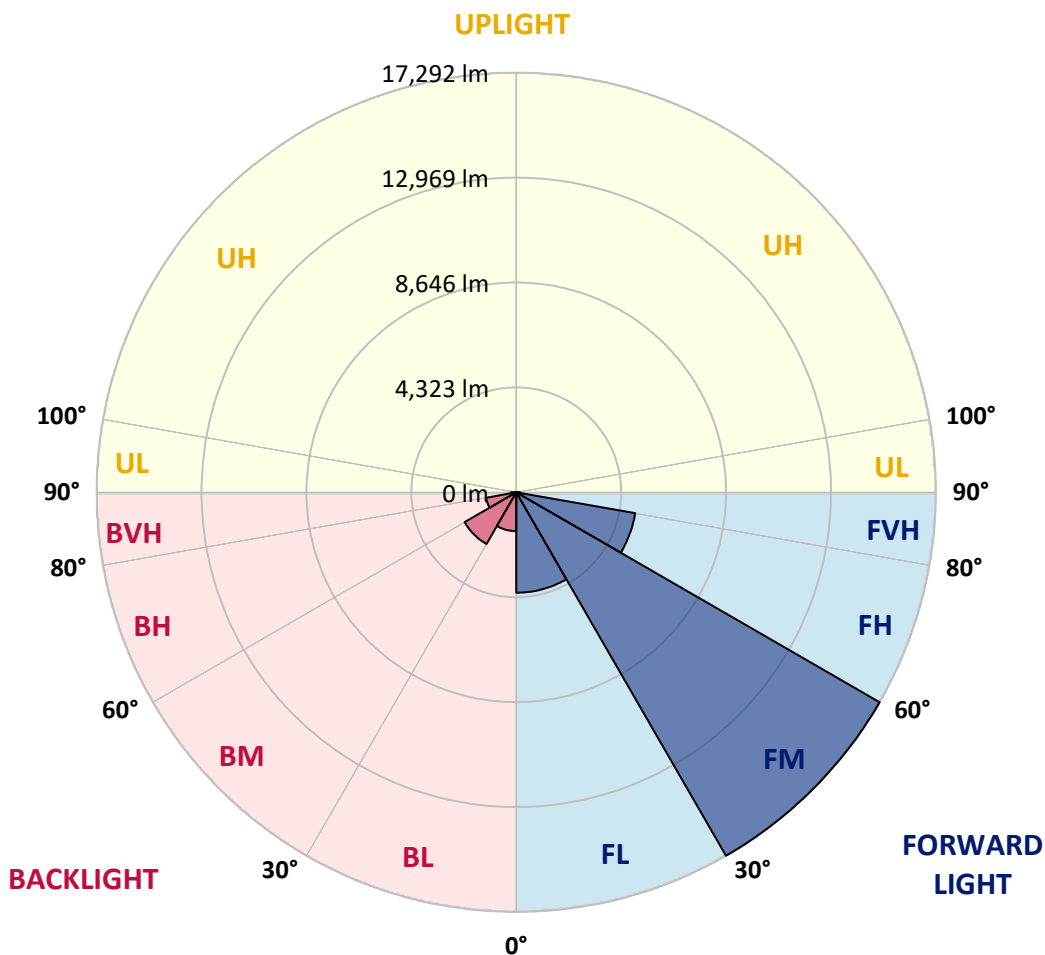


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4136.2	12.9			
FM (30°-60°)	17292.3	53.9			
FH (60°-80°)	4978.8	15.5			G2/5000
FVH (80°-90°)	167.6	0.5			G2/225
BL (0°-30°)	1600.5	5.0	B3/2500		
BM (30°-60°)	2456.8	7.7	B2/2500		
BH (60°-80°)	1264.7	3.9	B3/2500		G3/2500
BVH (80°-90°)	213.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0
2.5°	8178.1	8253.1	8220.0	8105.3	8017.0	7892.3	7753.2	7711.3	7564.5	7400.1	7202.6
5°	9472.5	9435.0	9380.9	9202.1	9013.4	8793.8	8445.1	8390.0	8063.3	7691.4	7298.6
7.5°	10209.6	10206.3	10174.3	10069.5	9897.3	9610.4	9190.0	9124.9	8631.6	8033.5	7424.4
10°	10102.6	10094.9	10147.8	10257.1	10309.0	10249.4	9895.1	9830.0	9224.2	8412.0	7570.1
12.5°	9494.6	9499.0	9583.9	9813.5	10125.8	10501.0	10443.6	10411.6	9838.9	8840.2	7746.6
15°	9021.2	9031.1	9098.4	9298.1	9666.7	10347.6	10776.8	10787.9	10433.6	9312.5	7953.0
17.5°	8813.7	8834.7	8865.6	9005.7	9343.4	10041.9	10856.3	10915.9	10954.5	9802.4	8151.6
20°	8879.9	8899.8	8908.6	8998.0	9275.0	9856.5	10801.1	10908.2	11354.0	10263.7	8350.2
22.5°	9176.8	9188.9	9194.4	9217.6	9432.8	9909.5	10764.7	10877.3	11643.1	10677.5	8500.3
25°	9668.9	9660.1	9624.8	9595.0	9739.5	10119.1	10848.6	10955.6	11878.1	11052.7	8598.5
27.5°	10258.2	10247.2	10178.7	10097.1	10179.8	10445.8	11090.2	11175.2	12088.9	11403.6	8648.2
30°	10965.5	10936.8	10807.7	10710.6	10742.6	10935.7	11488.6	11565.8	12414.4	11802.0	8696.7
32.5°	11783.2	11752.3	11565.8	11404.7	11404.7	11565.8	11899.1	11963.1	12690.3	12252.2	8775.1
35°	12807.3	12768.7	12525.9	12255.5	12179.4	12261.1	12458.6	12503.8	13186.9	12819.4	8917.4
37.5°	14014.5	13962.7	13648.2	13286.2	13119.6	13115.2	13257.5	13350.2	13980.3	13564.3	9159.1
40°	15225.1	15188.7	14913.9	14629.2	14302.5	14197.7	14417.3	14446.0	15017.6	14489.0	9468.1
42.5°	16160.8	16154.2	16103.5	16141.0	15806.6	15594.7	15766.9	15790.1	16284.4	15489.9	9796.9
45°	16655.2	16666.2	16912.3	17457.5	17581.1	17426.6	17511.5	17518.2	17732.2	16499.6	10098.2
47.5°	16259.1	16316.4	16938.8	18158.2	19170.1	19683.2	19542.0	19623.6	19135.9	17367.0	10334.3
50°	14715.3	14785.9	15845.2	17845.9	19911.7	21867.1	21793.1	21774.4	20268.1	18002.6	10462.3
52.5°	12802.9	12858.1	13732.0	16222.6	19367.6	23074.3	23753.0	23655.9	21274.5	18478.2	10486.6
55°	9890.7	9976.8	10814.4	12982.7	17167.2	22613.0	25194.1	25107.0	22191.5	18727.6	10457.9
57°	7031.5	7122.0	7954.1	9908.4	14441.6	21016.3	25337.6	25430.3	22687.0	18769.5	10489.9
57.5°	6274.5	6367.2	7191.5	9089.6	13591.9	20439.1	25214.0	25368.5	22776.4	18762.9	10507.6
60°	3159.3	3194.6	3719.9	5073.9	8591.9	16523.9	23601.8	24000.2	22856.9	18438.5	10583.7
62.5°	1964.2	1938.9	1922.3	2337.2	4180.1	10957.8	20274.7	21041.7	21315.3	17652.8	10399.4
65°	1727.0	1679.5	1497.5	1464.4	1846.2	5322.2	15268.1	16222.6	18021.4	16414.7	9960.2
67.5°	1622.2	1575.8	1370.6	1247.0	1248.1	2109.9	9479.1	10553.9	14038.8	14321.3	8924.1
70°	1514.0	1472.1	1280.1	1134.4	1062.7	1168.6	4361.1	5176.5	9151.4	11256.9	7458.6
72.5°	1375.0	1346.3	1164.2	1014.1	938.0	875.1	1669.6	1972.0	5297.9	7560.1	5179.9
75°	1229.3	1202.8	1047.2	903.8	811.1	688.6	940.2	1013.0	2691.5	3867.8	2550.2
77.5°	1069.3	1053.8	931.4	798.9	725.0	570.5	665.4	700.7	1154.3	1658.6	1279.0
80°	850.8	880.6	814.4	711.8	643.3	456.9	471.2	494.4	672.0	810.0	726.1
82.5°	554.0	605.8	637.8	578.2	529.7	359.7	338.8	348.7	438.1	494.4	315.6
85°	230.6	259.3	419.3	378.5	352.0	262.6	227.3	231.7	271.5	281.4	129.1
87.5°	102.6	109.2	184.3	173.3	149.0	90.5	97.1	105.9	144.6	136.8	49.7
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°	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0	7122.0
2.5°	7128.6	7036.0	6877.0	6701.6	6558.1	6443.4	6327.5	6248.1	6155.4	6105.7	6080.3
5°	7134.2	6952.1	6617.7	6274.5	5967.8	5687.5	5420.4	5215.2	5023.2	4919.4	4890.7
7.5°	7157.3	6883.7	6343.0	5778.0	5232.8	4735.1	4351.1	4110.6	3937.3	3860.1	3838.0
10°	7176.1	6803.1	6003.1	5166.6	4425.1	3920.8	3622.8	3488.2	3428.6	3418.7	3408.7
12.5°	7220.2	6720.4	5645.5	4528.8	3797.2	3448.5	3344.7	3335.9	3352.5	3376.7	3376.7
15°	7289.8	6638.7	5237.2	3981.4	3397.7	3275.2	3296.2	3344.7	3390.0	3427.5	3433.0
17.5°	7340.5	6538.3	4798.0	3543.4	3184.7	3217.8	3292.9	3361.3	3407.6	3444.0	3447.4
20°	7376.9	6382.7	4329.1	3209.0	3062.2	3164.9	3258.7	3319.3	3351.3	3387.8	3393.3
22.5°	7358.2	6174.1	3913.0	2969.5	2962.9	3087.6	3177.0	3249.8	3225.5	3190.2	3213.4
25°	7267.7	5887.2	3484.9	2790.8	2858.1	2983.9	3094.2	3045.7	2964.0	2948.6	2957.4
27.5°	7106.6	5520.8	3088.7	2625.2	2736.7	2887.9	2881.3	2832.7	2804.0	2784.1	2796.3
30°	6933.3	5123.6	2742.2	2480.7	2602.1	2726.8	2701.4	2700.3	2671.6	2639.6	2655.0
32.5°	6762.3	4724.1	2467.4	2361.5	2500.5	2517.1	2572.3	2588.8	2532.5	2465.2	2460.8
35°	6613.3	4346.7	2258.9	2253.4	2378.1	2380.3	2460.8	2437.6	2297.5	2228.0	2228.0
37.5°	6501.9	3970.4	2100.0	2156.3	2216.9	2274.3	2315.2	2219.2	2196.0	2157.4	2156.3
40°	6453.3	3639.4	2000.7	2082.3	2103.3	2176.1	2071.3	2108.8	2119.8	2100.0	2100.0
42.5°	6402.5	3351.3	1914.6	2026.0	2022.7	2012.8	1959.8	2008.4	2052.5	2053.6	2050.3
45°	6351.8	3103.1	1838.4	1905.8	1952.1	1845.1	1855.0	1906.9	1968.7	1990.7	1990.7
47.5°	6295.5	2906.6	1768.9	1778.9	1850.6	1778.9	1771.1	1810.9	1883.7	1919.0	1926.7
50°	6171.9	2730.1	1689.5	1667.4	1687.3	1711.5	1718.2	1736.9	1817.5	1873.8	1887.0
52.5°	6000.9	2572.3	1587.9	1564.8	1564.8	1656.4	1687.3	1692.8	1761.2	1828.5	1841.8
55°	5858.5	2471.9	1483.1	1478.7	1474.3	1597.9	1650.8	1659.7	1707.1	1760.1	1766.7
57°	5868.4	2464.1	1402.6	1407.0	1405.9	1538.3	1616.6	1635.4	1659.7	1704.9	1712.6
57.5°	5874.0	2469.6	1384.9	1387.1	1386.0	1521.7	1606.7	1627.7	1646.4	1693.9	1701.6
60°	5956.7	2484.0	1313.2	1288.9	1294.4	1433.5	1550.4	1576.9	1589.0	1651.9	1661.9
62.5°	5834.2	2420.0	1255.8	1197.3	1197.3	1340.8	1472.1	1514.0	1532.8	1617.7	1634.3
65°	5478.9	2240.1	1188.5	1093.6	1104.6	1248.1	1378.3	1446.7	1475.4	1581.3	1599.0
67.5°	4930.5	2031.6	1116.7	1000.9	1011.9	1151.0	1281.2	1355.1	1400.3	1541.6	1555.9
70°	4216.5	1776.6	1019.6	902.7	915.9	1045.0	1166.4	1250.3	1317.6	1504.1	1508.5
72.5°	3108.6	1456.6	883.9	794.5	808.9	921.4	1050.5	1147.6	1238.1	1410.3	1408.1
75°	1848.4	1138.8	733.8	685.3	695.2	800.0	945.7	1063.8	1199.5	1373.9	1394.8
77.5°	1121.2	857.4	598.1	573.8	586.0	693.0	870.7	996.5	1183.0	1295.5	1288.9
80°	677.6	612.4	477.8	462.4	474.5	592.6	805.6	945.7	1034.0	1106.8	1106.8
82.5°	354.2	374.1	350.9	338.8	355.3	481.1	732.7	825.4	913.7	784.6	732.7
85°	144.6	195.3	213.0	211.9	221.8	333.3	632.3	706.2	589.3	559.5	572.7
87.5°	48.6	82.8	103.7	89.4	93.8	209.7	438.1	341.0	405.0	282.5	268.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)