

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: P320911

Luminaire Tested: **GAN-SA7A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320911
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-SA7A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30797 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

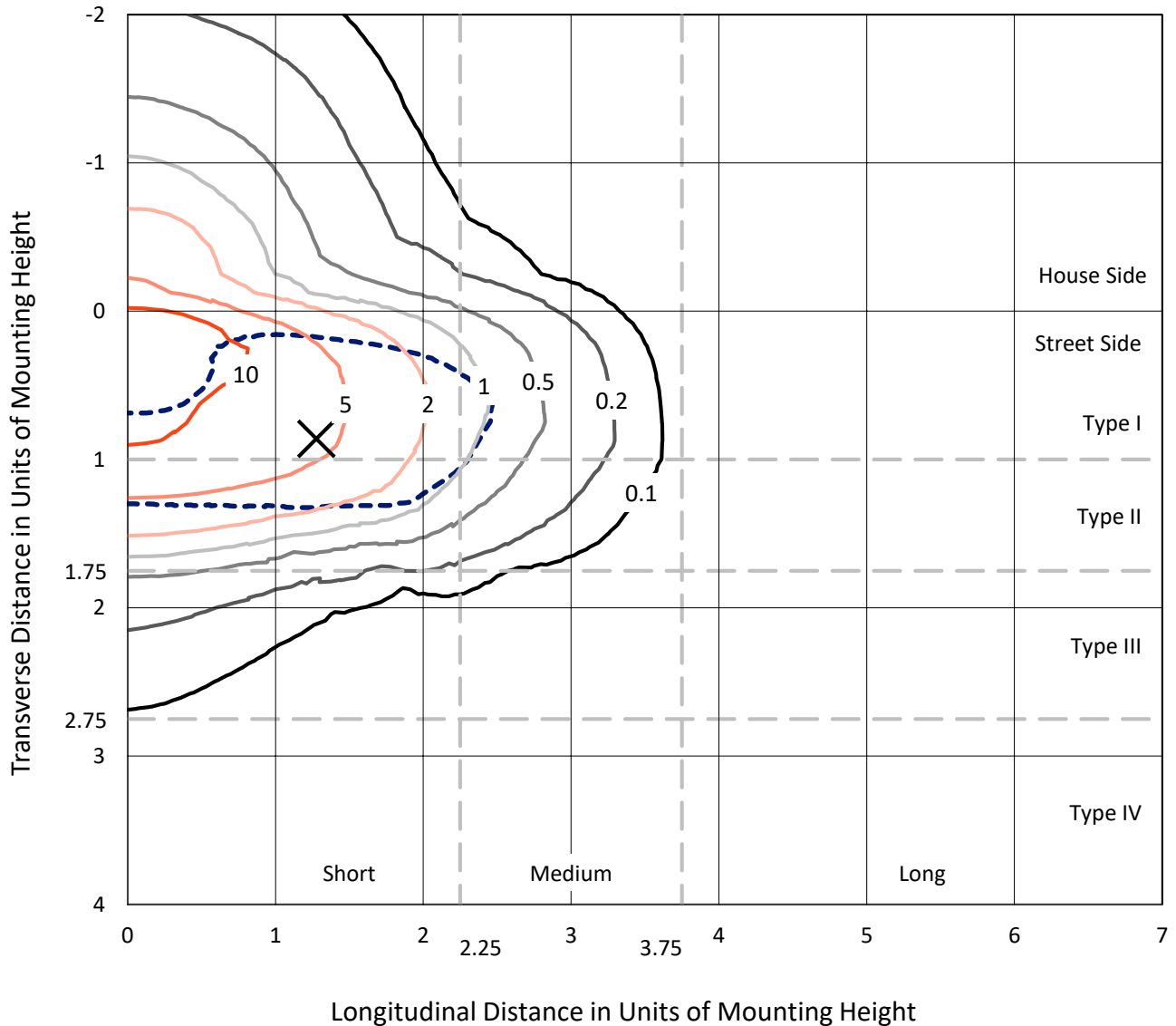
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

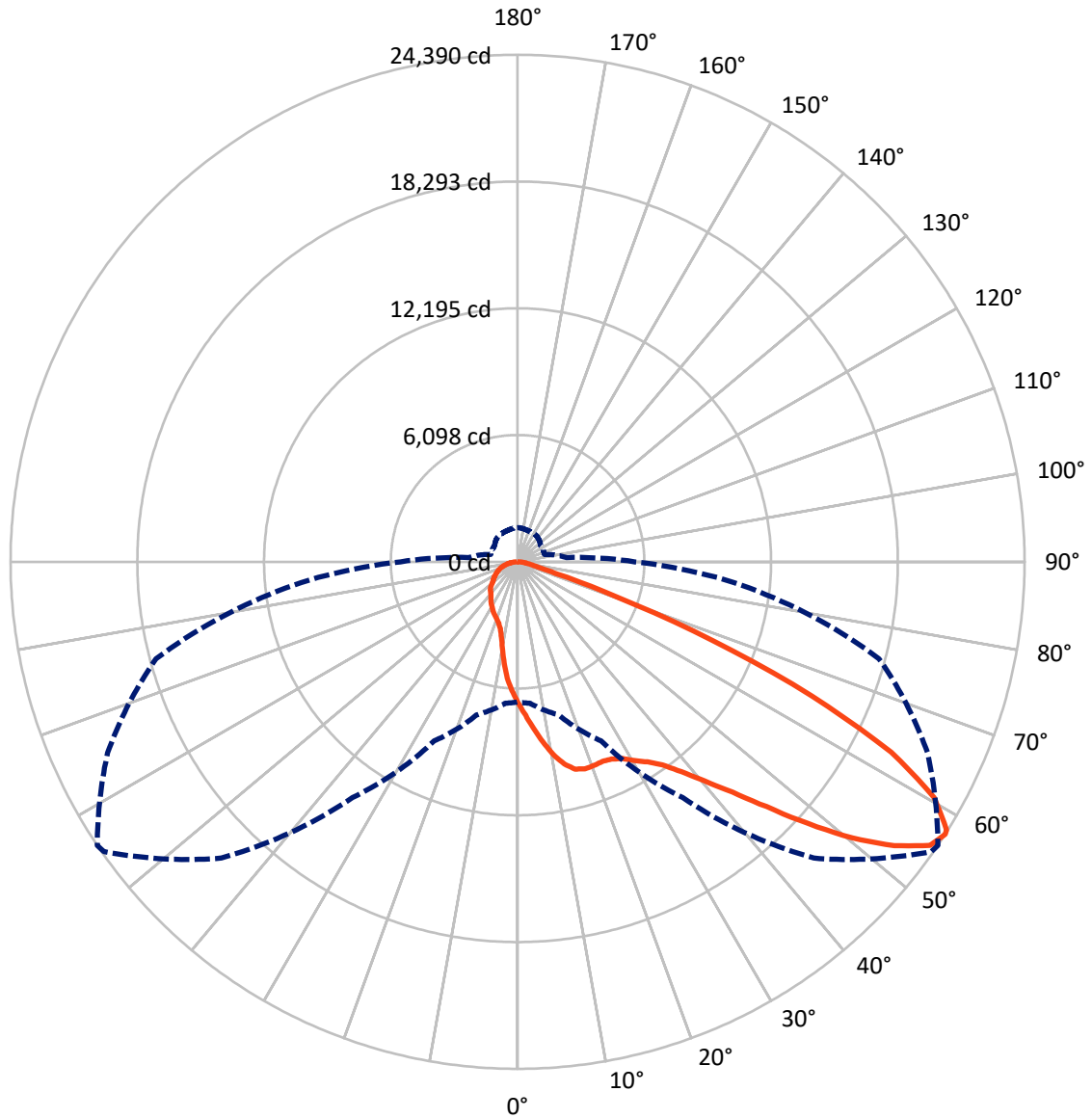
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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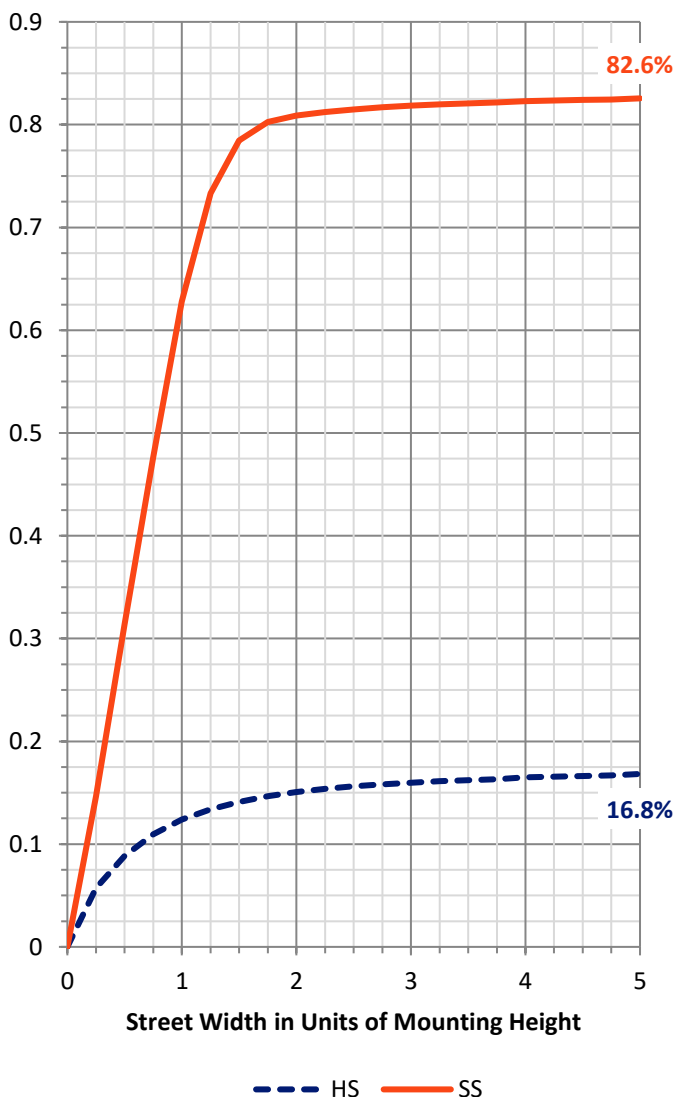
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5308.8	0.0	5308.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	25488.3	0.0	25488.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	30797.0	0.0	30797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.5	2.1
10°-20°	1844.8	6.0
20°-30°	3004.8	9.8
30°-40°	4491.9	14.6
40°-50°	6813.3	22.1
50°-60°	7636.4	24.8
60°-70°	4510.4	14.6
70°-80°	1477.8	4.8
80°-90°	365.1	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°	30797.0	100.0
0°-180°	30797.0	100.0

Coefficient of Utilization



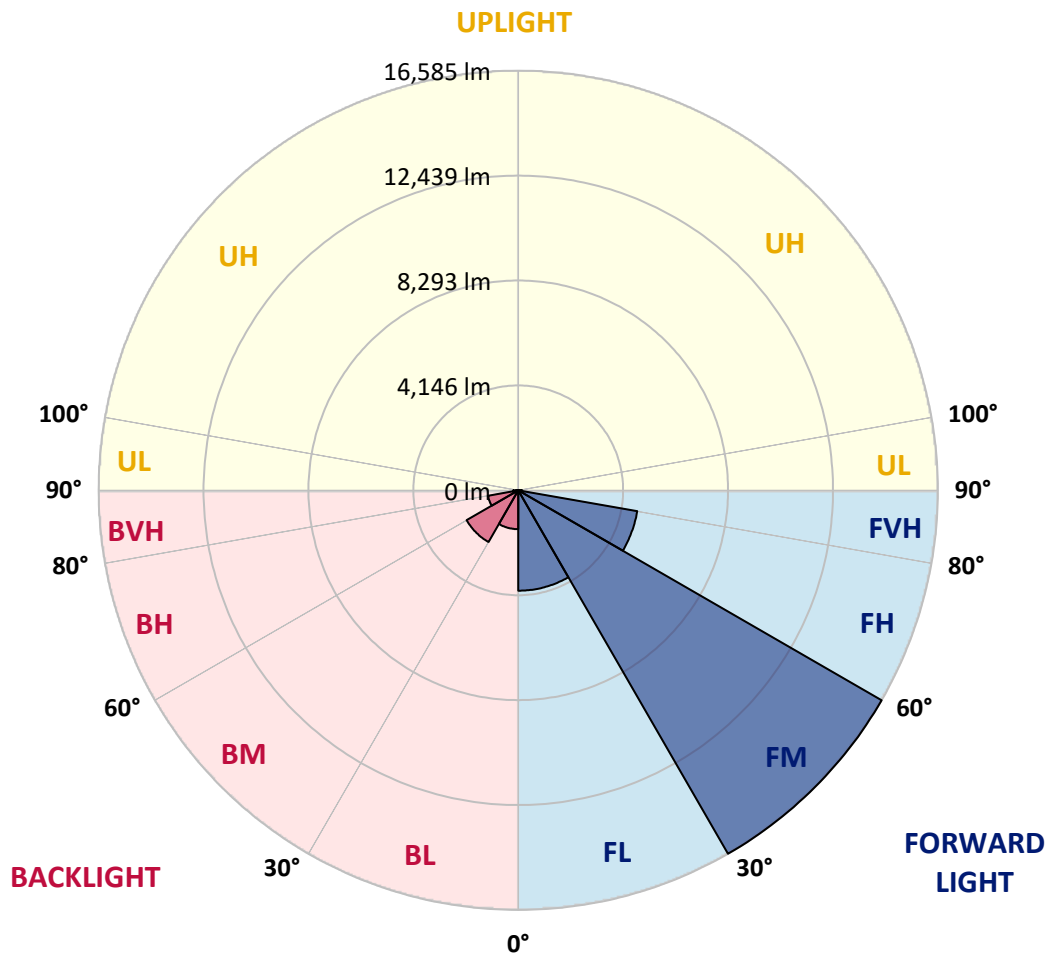
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3967.1	12.9			
FM (30°-60°)	16585.2	53.9			
FH (60°-80°)	4775.2	15.5			G2/5000
FVH (80°-90°)	160.8	0.5			G2/225
BL (0°-30°)	1535.0	5.0	B3/2500		
BM (30°-60°)	2356.4	7.7	B2/2500		
BH (60°-80°)	1213.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	204.3	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°	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8
2.5°	7843.7	7915.6	7883.9	7773.8	7689.2	7569.6	7436.2	7396.0	7255.2	7097.5	6908.1
5°	9085.2	9049.2	8997.3	8825.9	8644.9	8434.3	8099.8	8046.9	7733.6	7376.9	7000.1
7.5°	9792.2	9789.0	9758.3	9657.7	9492.6	9217.5	8814.2	8751.8	8278.7	7705.0	7120.8
10°	9689.5	9682.1	9732.9	9837.7	9887.4	9830.3	9490.5	9428.1	8847.0	8068.1	7260.5
12.5°	9106.3	9110.6	9192.1	9412.2	9711.7	10071.6	10016.5	9985.8	9436.5	8478.7	7429.8
15°	8652.3	8661.8	8726.4	8917.9	9271.4	9924.5	10336.2	10346.8	10007.0	8931.7	7627.8
17.5°	8453.3	8473.4	8503.0	8637.5	8961.3	9631.3	10412.4	10469.5	10506.6	9401.6	7818.3
20°	8516.8	8535.9	8544.3	8630.1	8895.7	9453.5	10359.5	10462.1	10889.7	9844.0	8008.8
22.5°	8801.5	8813.2	8818.4	8840.7	9047.1	9504.3	10324.5	10432.5	11167.0	10240.9	8152.7
25°	9273.6	9265.1	9231.2	9202.6	9341.3	9705.4	10405.0	10507.6	11392.4	10600.8	8246.9
27.5°	9838.7	9828.1	9762.5	9684.2	9763.6	10018.7	10636.7	10718.2	11594.6	10937.3	8294.5
30°	10517.1	10489.6	10365.8	10272.7	10303.4	10488.6	11018.8	11092.9	11906.8	11319.4	8341.1
32.5°	11301.4	11271.8	11092.9	10938.4	10938.4	11092.9	11412.5	11473.9	12171.4	11751.2	8416.3
35°	12283.6	12246.5	12013.7	11754.4	11681.4	11759.7	11949.1	11992.5	12647.7	12295.2	8552.8
37.5°	13441.5	13391.7	13090.1	12742.9	12583.1	12578.9	12715.4	12804.3	13408.7	13009.6	8784.6
40°	14602.5	14567.6	14304.0	14031.0	13717.7	13617.2	13827.8	13855.3	14403.5	13896.6	9080.9
42.5°	15500.0	15493.7	15445.0	15481.0	15160.3	14957.1	15122.2	15144.4	15618.6	14856.5	9396.3
45°	15974.2	15984.8	16220.8	16743.6	16862.2	16714.0	16795.5	16801.8	17007.2	15824.9	9685.3
47.5°	15594.2	15649.2	16246.2	17415.7	18386.2	18878.4	18742.9	18821.2	18353.4	16656.8	9911.8
50°	14113.5	14181.3	15197.3	17116.2	19097.5	20972.9	20902.0	20884.0	19439.3	17266.5	10034.5
52.5°	12279.4	12332.3	13170.5	15559.3	18575.7	22130.8	22781.7	22688.6	20404.6	17722.6	10057.8
55°	9486.3	9568.8	10372.2	12451.9	16465.3	21688.4	24163.9	24080.3	21284.1	17961.8	10030.3
57°	6744.0	6830.8	7628.8	9503.2	13851.1	20156.9	24301.5	24390.4	21759.3	18002.0	10061.0
57.5°	6018.0	6106.9	6897.5	8717.9	13036.1	19603.4	24183.0	24331.2	21845.0	17995.7	10077.9
60°	3030.1	3064.0	3567.8	4866.4	8240.6	15848.2	22636.7	23018.8	21922.3	17684.5	10150.9
62.5°	1883.9	1859.6	1843.7	2241.7	4009.2	10509.7	19445.7	20181.2	20443.7	16930.9	9974.2
65°	1656.4	1610.9	1436.2	1404.5	1770.7	5104.6	14643.8	15559.3	17284.4	15743.4	9553.0
67.5°	1555.8	1511.4	1314.5	1196.0	1197.0	2023.6	9091.5	10122.4	13464.7	13735.7	8559.1
70°	1452.1	1411.9	1227.7	1088.0	1019.2	1120.8	4182.7	4964.9	8777.2	10796.6	7153.6
72.5°	1318.7	1291.2	1116.6	972.7	899.6	839.3	1601.3	1891.3	5081.3	7251.0	4968.0
75°	1179.0	1153.6	1004.4	866.8	777.9	660.4	901.7	971.6	2581.4	3709.6	2445.9
77.5°	1025.6	1010.8	893.3	766.3	695.4	547.2	638.2	672.1	1107.1	1590.7	1226.7
80°	816.0	844.6	781.1	682.7	617.0	438.2	451.9	474.2	644.6	776.9	696.4
82.5°	531.3	581.1	611.7	554.6	508.0	345.0	324.9	334.4	420.2	474.2	302.7
85°	221.2	248.7	402.2	363.0	337.6	251.9	218.0	222.3	260.4	269.9	123.8
87.5°	98.4	104.8	176.7	166.2	142.9	86.8	93.1	101.6	138.6	131.2	47.6
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°	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8	6830.8
2.5°	6837.2	6748.2	6595.8	6427.6	6290.0	6179.9	6068.8	5992.6	5903.7	5856.0	5831.7
5°	6842.4	6667.8	6347.1	6018.0	5723.7	5454.9	5198.8	5001.9	4817.8	4718.3	4690.8
7.5°	6864.7	6602.2	6083.6	5541.7	5018.9	4541.5	4173.2	3942.5	3776.3	3702.2	3681.1
10°	6882.7	6524.9	5757.6	4955.3	4244.1	3760.4	3474.7	3345.5	3288.4	3278.9	3269.3
12.5°	6925.0	6445.6	5414.7	4343.6	3641.9	3307.4	3208.0	3199.5	3215.4	3238.7	3238.7
15°	6991.7	6367.2	5023.1	3818.6	3258.8	3141.3	3161.4	3208.0	3251.4	3287.3	3292.6
17.5°	7040.4	6270.9	4601.8	3398.5	3054.5	3086.2	3158.2	3223.8	3268.3	3303.2	3306.4
20°	7075.3	6121.7	4152.0	3077.8	2937.0	3035.4	3125.4	3183.6	3214.3	3249.2	3254.5
22.5°	7057.3	5921.7	3753.0	2848.1	2841.8	2961.4	3047.1	3116.9	3093.7	3059.8	3082.0
25°	6970.5	5646.5	3342.4	2676.7	2741.2	2861.9	2967.7	2921.1	2842.8	2828.0	2836.5
27.5°	6816.0	5295.1	2962.4	2517.9	2624.8	2769.8	2763.4	2716.9	2689.4	2670.3	2681.9
30°	6649.8	4914.1	2630.1	2379.2	2495.7	2615.3	2590.9	2589.9	2562.3	2531.7	2546.5
32.5°	6485.8	4530.9	2366.5	2264.9	2398.3	2414.2	2467.1	2483.0	2429.0	2364.4	2360.2
35°	6342.9	4169.0	2166.5	2161.2	2280.8	2282.9	2360.2	2338.0	2203.6	2136.9	2136.9
37.5°	6236.0	3808.1	2014.1	2068.1	2126.3	2181.3	2220.5	2128.4	2106.2	2069.1	2068.1
40°	6189.4	3490.5	1918.8	1997.2	2017.3	2087.1	1986.6	2022.6	2033.2	2014.1	2014.1
42.5°	6140.7	3214.3	1836.3	1943.2	1940.0	1930.5	1879.7	1926.3	1968.6	1969.7	1966.5
45°	6092.1	2976.2	1763.3	1827.8	1872.3	1769.6	1779.1	1828.9	1888.2	1909.3	1909.3
47.5°	6038.1	2787.8	1696.6	1706.1	1774.9	1706.1	1698.7	1736.8	1806.7	1840.5	1847.9
50°	5919.5	2618.4	1620.4	1599.2	1618.3	1641.6	1647.9	1665.9	1743.2	1797.1	1809.8
52.5°	5755.5	2467.1	1523.0	1500.8	1500.8	1588.6	1618.3	1623.6	1689.2	1753.7	1766.4
55°	5619.0	2370.8	1422.5	1418.2	1414.0	1532.5	1583.3	1591.8	1637.3	1688.1	1694.5
57°	5628.5	2363.4	1345.2	1349.4	1348.4	1475.4	1550.5	1568.5	1591.8	1635.2	1642.6
57.5°	5633.8	2368.7	1328.3	1330.4	1329.3	1459.5	1541.0	1561.1	1579.1	1624.6	1632.0
60°	5713.2	2382.4	1259.5	1236.2	1241.5	1374.8	1487.0	1512.4	1524.1	1584.4	1593.9
62.5°	5595.7	2321.0	1204.4	1148.3	1148.3	1285.9	1411.9	1452.1	1470.1	1551.6	1567.5
65°	5254.9	2148.5	1139.9	1048.9	1059.4	1197.0	1321.9	1387.5	1415.1	1516.7	1533.6
67.5°	4728.9	1948.5	1071.1	960.0	970.5	1103.9	1228.8	1299.7	1343.1	1478.6	1492.3
70°	4044.1	1704.0	977.9	865.8	878.5	1002.3	1118.7	1199.1	1263.7	1442.6	1446.8
72.5°	2981.5	1397.1	847.8	762.0	775.8	883.7	1007.6	1100.7	1187.5	1352.6	1350.5
75°	1772.8	1092.3	703.8	657.3	666.8	767.3	907.0	1020.3	1150.5	1317.7	1337.8
77.5°	1075.3	822.4	573.6	550.4	562.0	664.7	835.1	955.7	1134.6	1242.5	1236.2
80°	649.8	587.4	458.3	443.5	455.1	568.4	772.6	907.0	991.7	1061.6	1061.6
82.5°	339.7	358.8	336.6	324.9	340.8	461.5	702.8	791.7	876.3	752.5	702.8
85°	138.6	187.3	204.3	203.2	212.7	319.6	606.5	677.4	565.2	536.6	549.3
87.5°	46.6	79.4	99.5	85.7	90.0	201.1	420.2	327.0	388.4	270.9	257.2
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)