

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: P320912

Luminaire Tested: **GAN-SA8A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320912
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-SA8A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34895 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

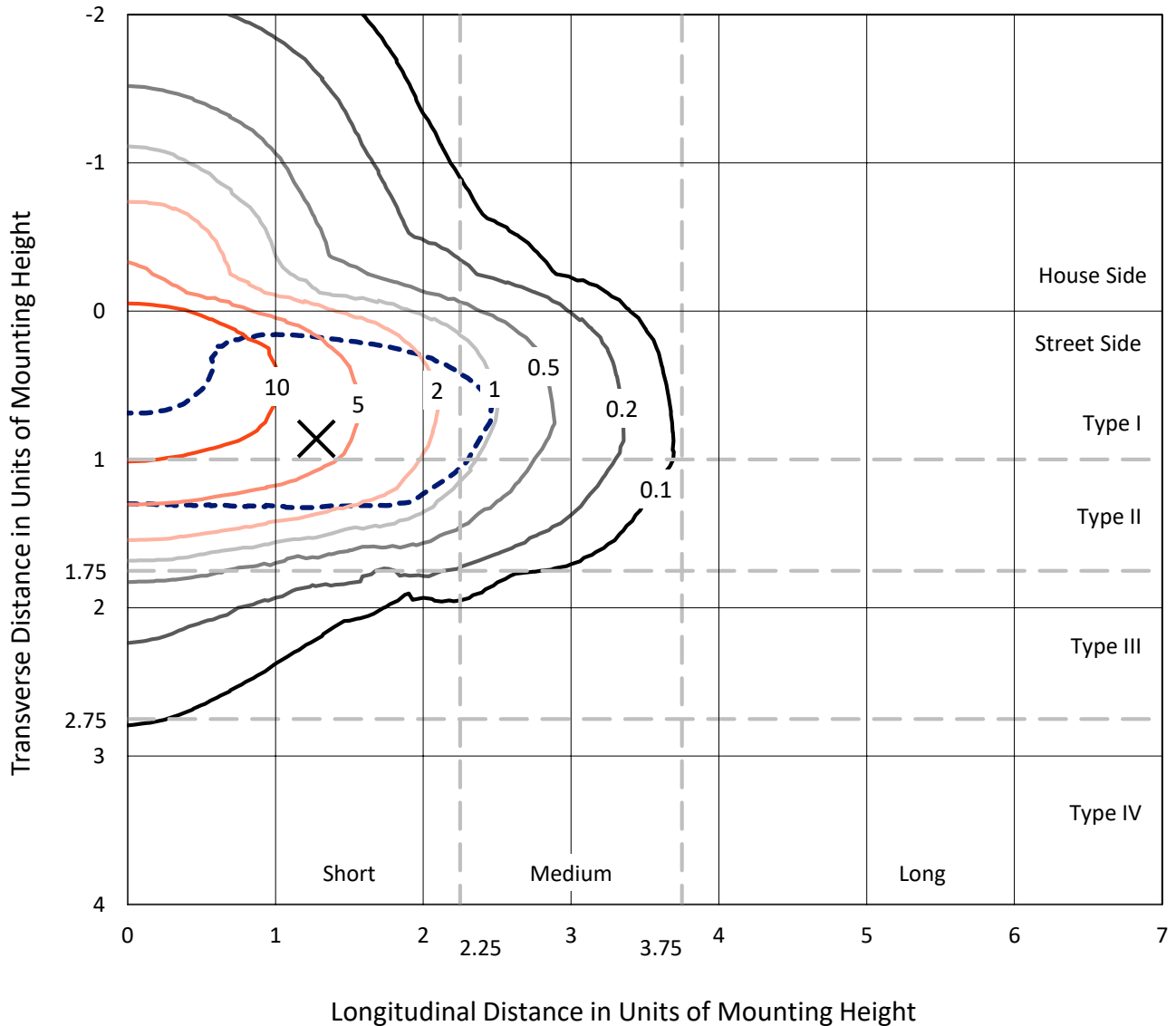
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

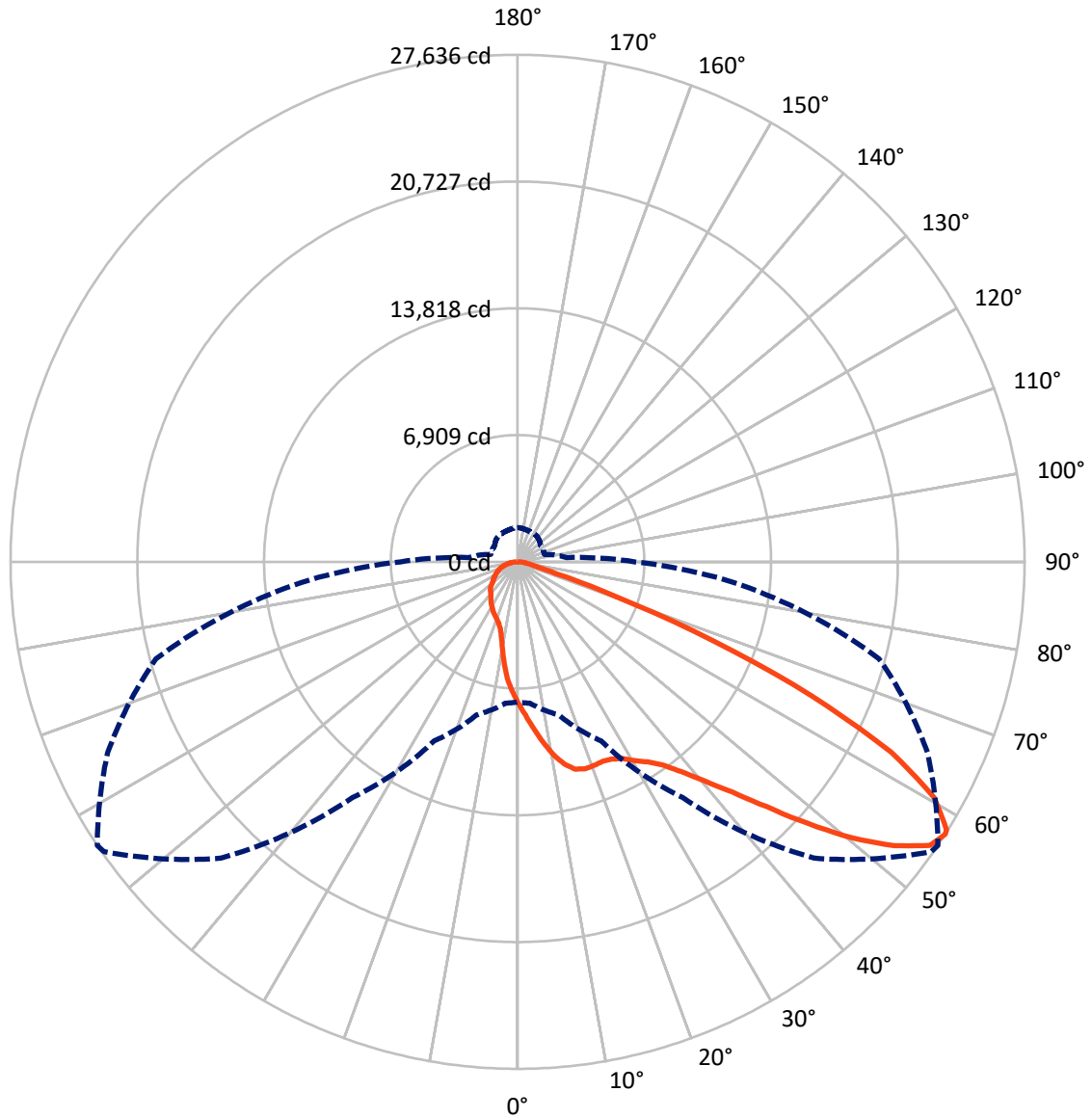
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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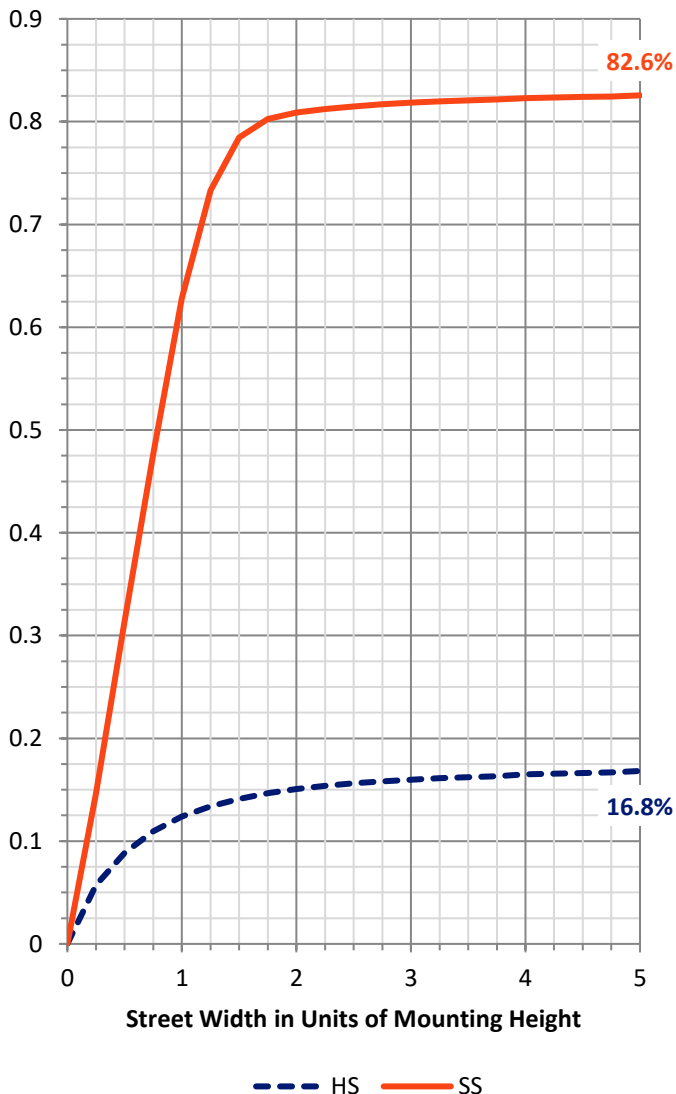
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6015.2	0.0	6015.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	28879.8	0.0	28879.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	34895.0	0.0	34895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.3	2.1
10°-20°	2090.3	6.0
20°-30°	3404.7	9.8
30°-40°	5089.6	14.6
40°-50°	7719.8	22.1
50°-60°	8652.6	24.8
60°-70°	5110.6	14.6
70°-80°	1674.4	4.8
80°-90°	413.7	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°	34895.0	100.0
0°-180°	34895.0	100.0

Coefficient of Utilization

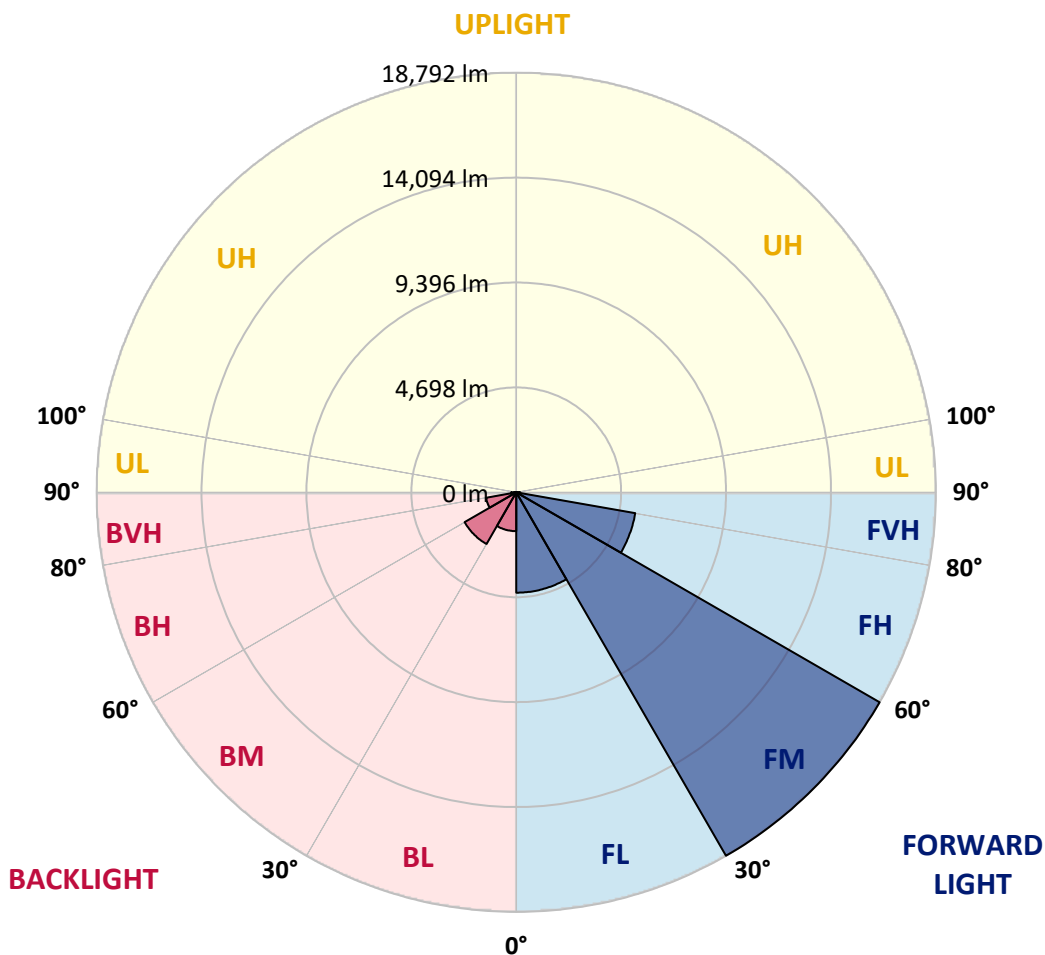


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4495.0	12.9			
FM (30°-60°)	18792.1	53.9			
FH (60°-80°)	5410.6	15.5			G3/7500
FVH (80°-90°)	182.2	0.5			G2/225
BL (0°-30°)	1739.3	5.0	B3/2500		
BM (30°-60°)	2669.9	7.7	B3/5000		
BH (60°-80°)	1374.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	231.5	0.7			G3/500
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°	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7
2.5°	8887.4	8968.9	8933.0	8808.2	8712.3	8576.8	8425.7	8380.1	8220.6	8041.9	7827.3
5°	10294.1	10253.3	10194.5	10000.3	9795.2	9556.6	9177.6	9117.6	8762.7	8358.5	7931.6
7.5°	11095.2	11091.6	11056.8	10942.8	10755.8	10444.0	9987.1	9916.3	9380.3	8730.3	8068.3
10°	10978.8	10970.4	11028.0	11146.7	11203.1	11138.3	10753.4	10682.6	10024.3	9141.6	8226.6
12.5°	10318.1	10322.9	10415.2	10664.6	11004.0	11411.7	11349.4	11314.6	10692.2	9606.9	8418.5
15°	9803.6	9814.4	9887.5	10104.6	10505.1	11245.1	11711.5	11723.5	11338.6	10120.2	8642.8
17.5°	9578.1	9600.9	9634.5	9786.8	10153.8	10912.9	11797.9	11862.6	11904.6	10652.6	8858.6
20°	9650.1	9671.7	9681.3	9778.4	10079.4	10711.4	11737.9	11854.3	12338.7	11153.9	9074.5
22.5°	9972.7	9985.9	9991.9	10017.1	10250.9	10769.0	11698.4	11820.7	12652.9	11603.6	9237.6
25°	10507.5	10497.9	10459.6	10427.2	10584.3	10996.8	11789.5	11905.8	12908.4	12011.4	9344.3
27.5°	11147.9	11135.9	11061.6	10972.8	11062.8	11351.8	12052.1	12144.5	13137.4	12392.7	9398.3
30°	11916.6	11885.4	11745.1	11639.6	11674.4	11884.2	12485.0	12569.0	13491.2	12825.6	9451.0
32.5°	12805.2	12771.7	12569.0	12393.9	12393.9	12569.0	12931.2	13000.7	13791.0	13314.9	9536.2
35°	13918.1	13876.1	13612.3	13318.5	13235.8	13324.5	13539.2	13588.3	14330.6	13931.3	9690.9
37.5°	15230.0	15173.7	14831.9	14438.6	14257.5	14252.7	14407.4	14508.1	15192.9	14740.8	9953.5
40°	16545.6	16506.0	16207.4	15898.0	15543.0	15429.1	15667.8	15698.9	16320.1	15745.7	10289.3
42.5°	17562.5	17555.3	17500.2	17540.9	17177.6	16947.3	17134.4	17159.6	17696.8	16833.4	10646.6
45°	18099.8	18111.8	18379.2	18971.6	19105.9	18938.0	19030.4	19037.6	19270.2	17930.7	10974.0
47.5°	17669.3	17731.6	18408.0	19733.1	20832.8	21390.4	21236.9	21325.7	20795.6	18873.3	11230.7
50°	15991.6	16068.3	17219.5	19393.7	21638.7	23763.7	23683.3	23662.9	22026.0	19564.0	11369.8
52.5°	13913.3	13973.3	14923.0	17629.7	21047.4	25075.6	25813.1	25707.6	23119.7	20080.9	11396.2
55°	10748.6	10842.1	11752.3	14108.8	18656.2	24574.3	27379.3	27284.6	24116.2	20351.9	11365.0
57°	7641.4	7739.7	8644.0	10767.8	15694.1	22839.1	27535.2	27635.9	24654.7	20397.5	11399.8
57.5°	6818.7	6919.5	7815.3	9877.9	14770.7	22211.9	27400.9	27568.8	24751.8	20390.3	11418.9
60°	3433.4	3471.7	4042.6	5514.0	9337.1	17957.1	25648.8	26081.8	24839.4	20037.7	11501.7
62.5°	2134.6	2107.0	2089.0	2539.9	4542.6	11908.2	22033.2	22866.7	23164.1	19183.9	11301.4
65°	1876.8	1825.2	1627.3	1591.4	2006.3	5783.8	16592.4	17629.7	19584.4	17838.3	10824.1
67.5°	1762.8	1712.5	1489.4	1355.1	1356.3	2292.9	10301.3	11469.3	15256.4	15563.4	9698.1
70°	1645.3	1599.8	1391.1	1232.8	1154.8	1270.0	4739.3	5625.5	9945.1	12233.2	8105.5
72.5°	1494.2	1463.0	1265.2	1102.1	1019.3	951.0	1814.4	2143.0	5757.4	8215.8	5629.1
75°	1335.9	1307.1	1138.1	982.2	881.4	748.3	1021.7	1100.9	2924.9	4203.3	2771.4
77.5°	1162.0	1145.3	1012.1	868.2	787.9	620.0	723.1	761.5	1254.4	1802.4	1389.9
80°	924.6	957.0	885.0	773.5	699.1	496.5	512.1	537.2	730.3	880.2	789.1
82.5°	602.0	658.4	693.1	628.4	575.6	390.9	368.2	379.0	476.1	537.2	343.0
85°	250.6	281.8	455.7	411.3	382.6	285.4	247.0	251.8	295.0	305.8	140.3
87.5°	111.5	118.7	200.3	188.3	161.9	98.3	105.5	115.1	157.1	148.7	54.0
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°	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7	7739.7
2.5°	7746.9	7646.2	7473.5	7282.8	7126.9	7002.2	6876.3	6790.0	6689.2	6635.3	6607.7
5°	7752.9	7555.1	7191.7	6818.7	6485.4	6180.8	5890.6	5667.5	5458.8	5346.1	5314.9
7.5°	7778.1	7480.7	6893.1	6279.1	5686.7	5145.8	4728.5	4467.1	4278.8	4194.9	4170.9
10°	7798.5	7393.2	6523.7	5614.7	4808.9	4260.8	3937.0	3790.7	3726.0	3715.2	3704.4
12.5°	7846.5	7303.2	6135.2	4921.6	4126.5	3747.6	3634.8	3625.2	3643.2	3669.6	3669.6
15°	7922.0	7214.5	5691.5	4326.8	3692.4	3559.3	3582.1	3634.8	3684.0	3724.8	3730.8
17.5°	7977.2	7105.4	5214.2	3850.7	3460.9	3496.9	3578.5	3652.8	3703.2	3742.8	3746.4
20°	8016.8	6936.3	4704.5	3487.3	3327.8	3439.4	3541.3	3607.2	3642.0	3681.6	3687.6
22.5°	7996.4	6709.6	4252.4	3227.1	3219.9	3355.4	3452.5	3531.7	3505.3	3466.9	3492.1
25°	7898.0	6397.8	3787.1	3032.8	3106.0	3242.7	3362.6	3309.8	3221.1	3204.3	3213.9
27.5°	7723.0	5999.7	3356.6	2852.9	2974.1	3138.3	3131.2	3078.4	3047.2	3025.6	3038.8
30°	7534.7	5568.0	2980.1	2695.8	2827.8	2963.3	2935.7	2934.5	2903.3	2868.5	2885.3
32.5°	7348.8	5133.8	2681.4	2566.3	2717.4	2735.4	2795.4	2813.4	2752.2	2679.0	2674.3
35°	7186.9	4723.7	2454.8	2448.8	2584.3	2586.7	2674.3	2649.1	2496.8	2421.2	2421.2
37.5°	7065.8	4314.8	2282.1	2343.3	2409.2	2471.6	2516.0	2411.6	2386.4	2344.5	2343.3
40°	7013.0	3955.0	2174.2	2262.9	2285.7	2364.9	2250.9	2291.7	2303.7	2282.1	2282.1
42.5°	6957.9	3642.0	2080.6	2201.8	2198.2	2187.4	2129.8	2182.6	2230.5	2231.7	2228.1
45°	6902.7	3372.2	1997.9	2071.0	2121.4	2005.1	2015.9	2072.2	2139.4	2163.4	2163.4
47.5°	6841.5	3158.7	1922.3	1933.1	2011.1	1933.1	1924.7	1967.9	2047.1	2085.4	2093.8
50°	6707.2	2966.9	1836.0	1812.0	1833.6	1860.0	1867.2	1887.6	1975.1	2036.3	2050.7
52.5°	6521.3	2795.4	1725.7	1700.5	1700.5	1800.0	1833.6	1839.6	1913.9	1987.1	2001.5
55°	6366.6	2686.2	1611.7	1607.0	1602.2	1736.5	1794.0	1803.6	1855.2	1912.8	1919.9
57°	6377.4	2677.9	1524.2	1529.0	1527.8	1671.7	1756.9	1777.2	1803.6	1852.8	1861.2
57.5°	6383.4	2683.8	1505.0	1507.4	1506.2	1653.7	1746.1	1768.8	1789.2	1840.8	1849.2
60°	6473.4	2699.4	1427.1	1400.7	1406.7	1557.8	1684.9	1713.7	1726.9	1795.2	1806.0
62.5°	6340.3	2629.9	1364.7	1301.1	1301.1	1457.0	1599.8	1645.3	1665.7	1758.1	1776.0
65°	5954.1	2434.4	1291.6	1188.4	1200.4	1356.3	1497.8	1572.2	1603.4	1718.5	1737.7
67.5°	5358.1	2207.8	1213.6	1087.7	1099.7	1250.8	1392.3	1472.6	1521.8	1675.3	1690.9
70°	4582.2	1930.7	1108.1	981.0	995.3	1135.7	1267.6	1358.7	1431.9	1634.5	1639.3
72.5°	3378.2	1583.0	960.6	863.4	879.0	1001.3	1141.7	1247.2	1345.5	1532.6	1530.2
75°	2008.7	1237.6	797.5	744.7	755.5	869.4	1027.7	1156.0	1303.5	1493.0	1515.8
77.5°	1218.4	931.8	650.0	623.6	636.8	753.1	946.2	1082.9	1285.6	1407.9	1400.7
80°	736.3	665.6	519.3	502.5	515.7	644.0	875.4	1027.7	1123.7	1202.8	1202.8
82.5°	384.9	406.5	381.4	368.2	386.1	522.9	796.3	897.0	993.0	852.6	796.3
85°	157.1	212.3	231.4	230.2	241.0	362.2	687.2	767.5	640.4	608.0	622.4
87.5°	52.8	89.9	112.7	97.1	101.9	227.9	476.1	370.6	440.1	307.0	291.4
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)