

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: P654004

Luminaire Tested: **GLAN-SA7A-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27300.5 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

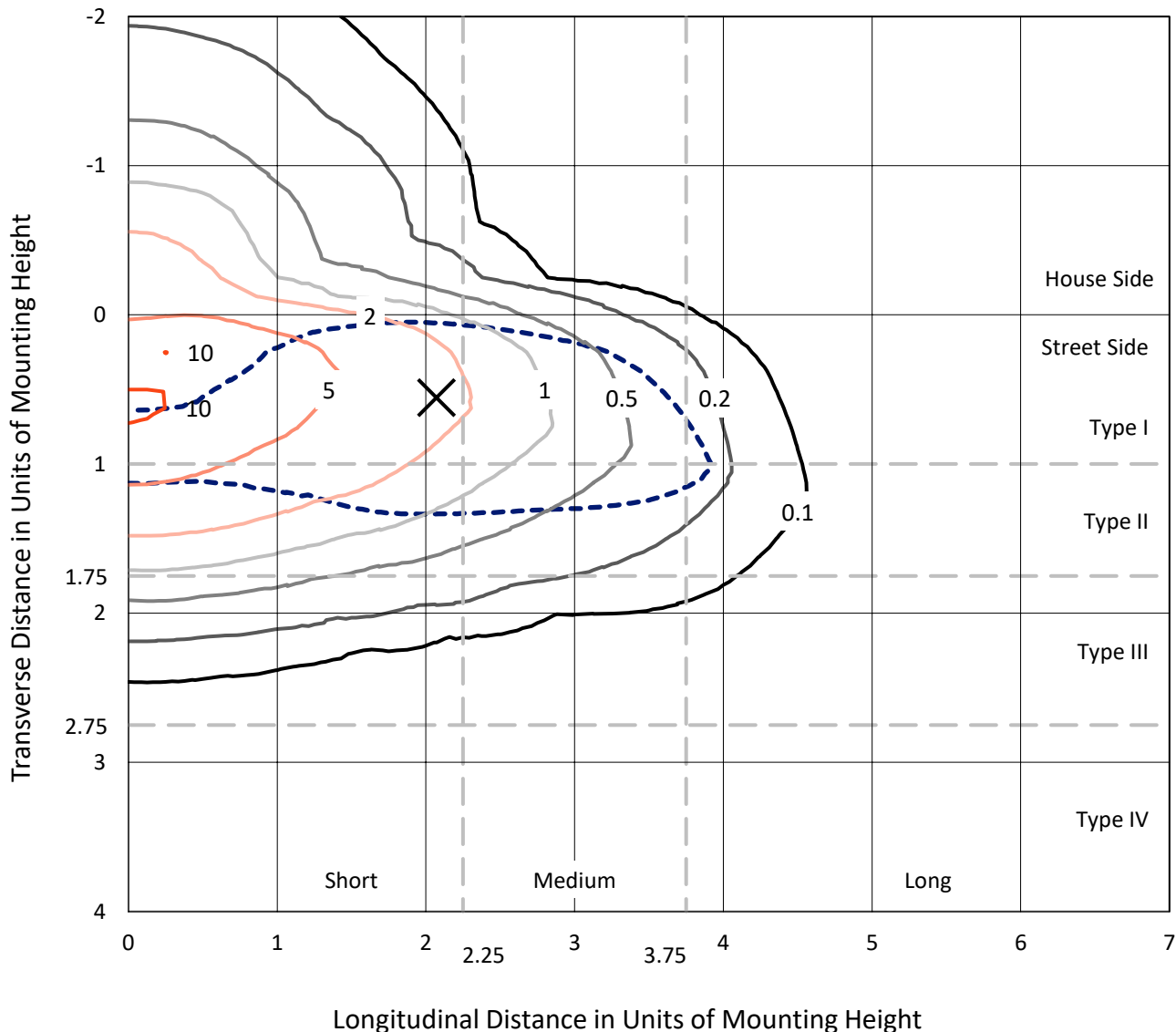
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

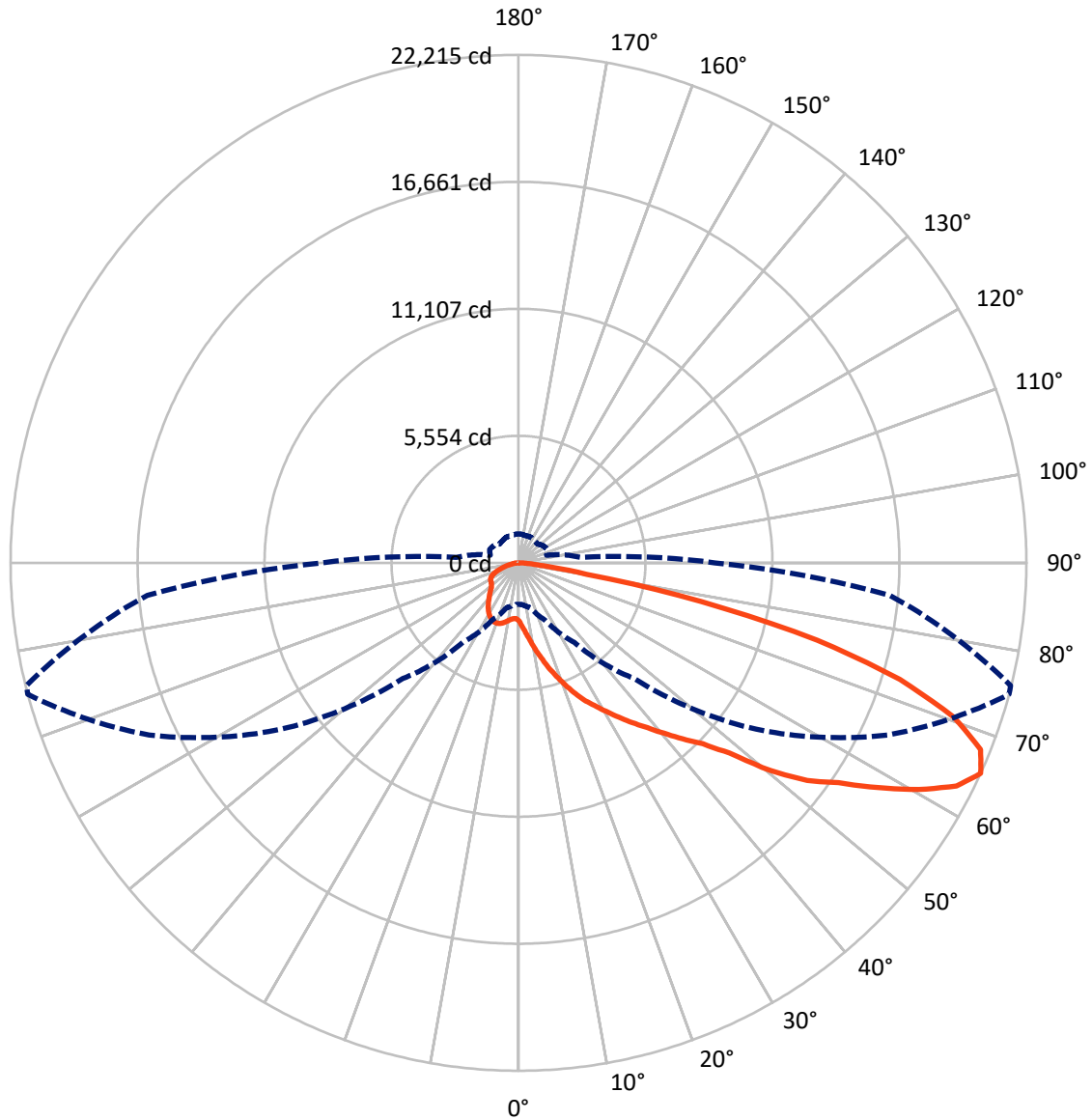
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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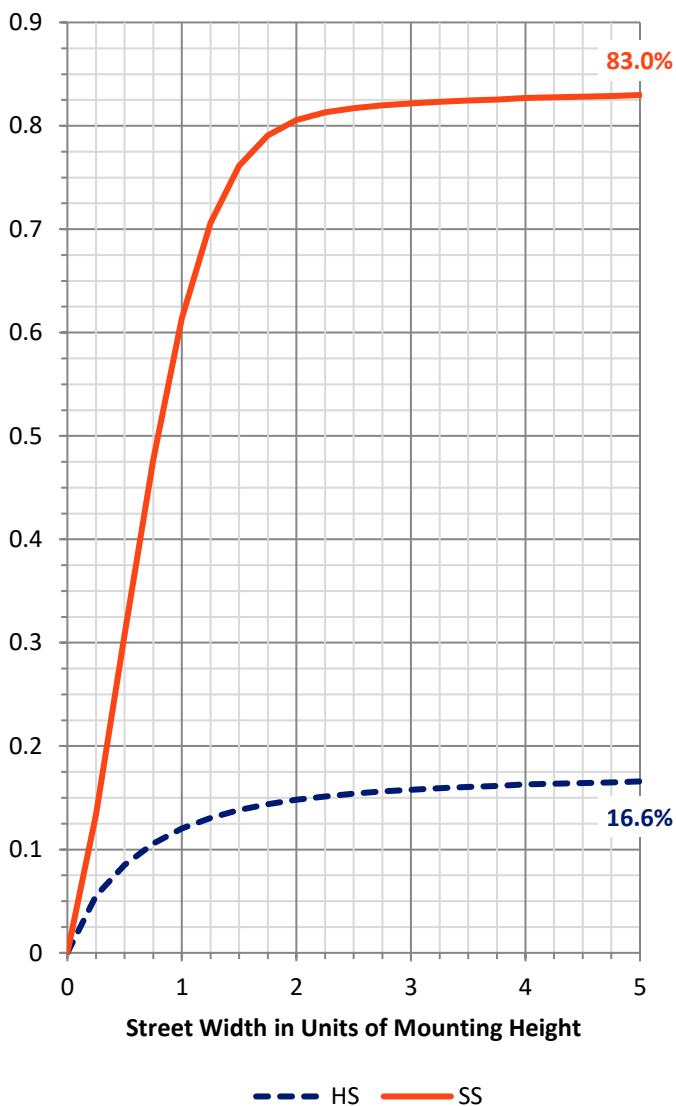
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4589.6	0.0	4589.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	22711.0	0.0	22711.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	27300.5	0.0	27300.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.2	1.1
10°-20°	1207.1	4.4
20°-30°	2331.7	8.5
30°-40°	3787.5	13.9
40°-50°	5210.0	19.1
50°-60°	6151.2	22.5
60°-70°	5389.5	19.7
70°-80°	2573.0	9.4
80°-90°	342.4	1.3
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°	27300.5	100.0
0°-180°	27300.5	100.0

**Coefficient of Utilization**



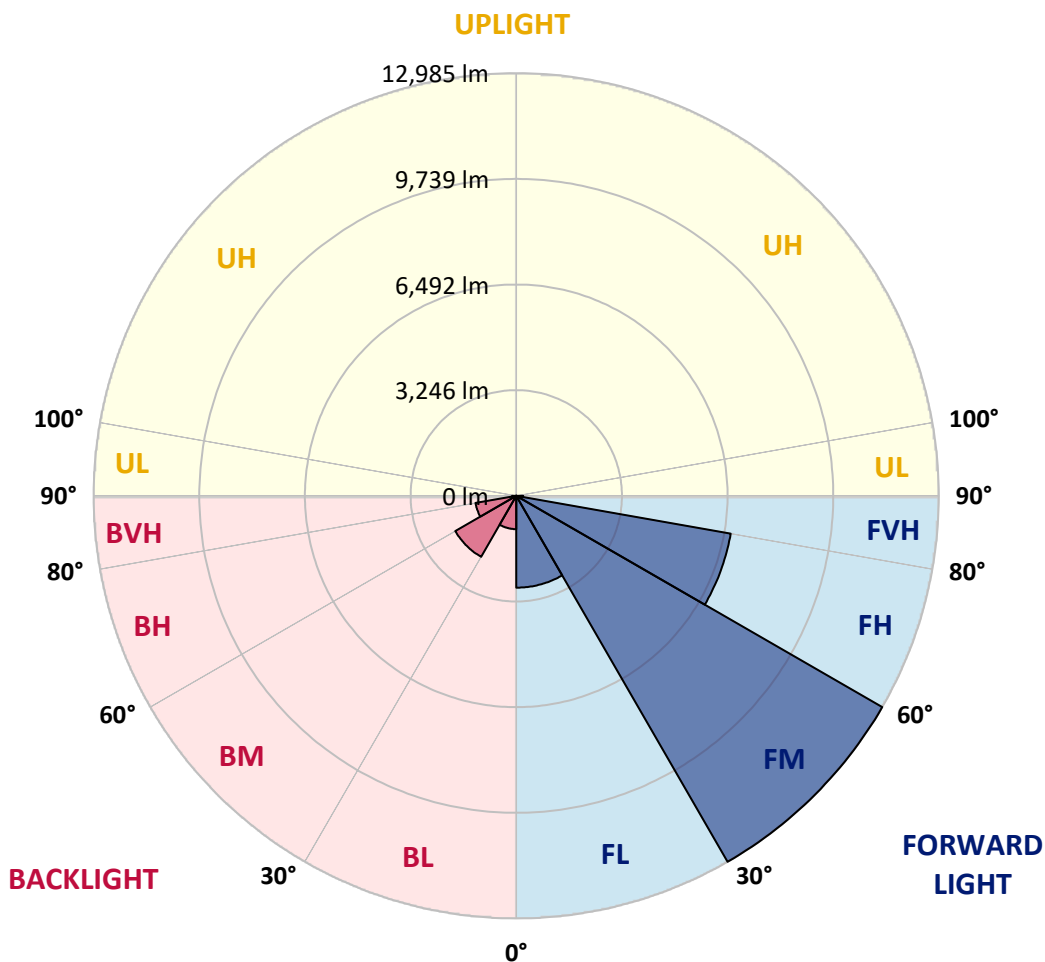
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.4	10.3			
FM (30°-60°)	12984.7	47.6			
FH (60°-80°)	6689.9	24.5			G3/7500
FVH (80°-90°)	214.0	0.8			G2/225
BL (0°-30°)	1024.6	3.8	B3/2500		
BM (30°-60°)	2164.0	7.9	B2/2500		
BH (60°-80°)	1272.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	128.4	0.5			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°	65°	75°	76°	85°
0°	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5
2.5°	3370.2	3348.0	3324.3	3259.2	3189.6	3111.1	2998.6	2890.4	2746.9	2742.4	2635.8
5°	4304.6	4289.8	4184.6	4123.9	3962.5	3747.8	3565.7	3282.8	3020.8	2989.7	2782.4
7.5°	5163.5	5105.7	5065.8	4956.2	4796.2	4520.8	4168.4	3786.4	3348.0	3306.6	2963.0
10°	5810.6	5804.7	5783.9	5689.1	5569.2	5295.3	4904.3	4356.5	3762.6	3681.2	3182.2
12.5°	6294.8	6299.2	6296.2	6294.8	6208.9	5976.4	5552.9	4975.4	4181.7	4123.9	3435.4
15°	6613.1	6657.5	6675.4	6749.4	6756.8	6601.3	6237.0	5573.6	4654.1	4568.2	3707.9
17.5°	6823.4	6845.7	6928.6	7054.4	7156.6	7128.5	6804.2	6127.4	5136.8	4993.2	3990.7
20°	7024.8	7063.3	7127.0	7298.7	7479.3	7562.3	7334.3	6694.6	5615.1	5523.3	4303.1
22.5°	7443.9	7498.6	7520.8	7608.2	7762.2	7908.8	7805.2	7238.0	6139.3	6014.9	4634.8
25°	8153.2	8210.9	8148.7	8127.9	8178.3	8250.9	8228.7	7750.4	6633.9	6456.2	4948.8
27.5°	9077.2	9084.6	8963.1	8847.7	8723.3	8686.2	8618.1	8205.0	7063.3	6915.2	5264.2
30°	10069.3	10033.7	9832.3	9623.6	9413.3	9206.0	9010.5	8643.3	7541.6	7371.3	5573.6
32.5°	10990.3	10971.0	10747.5	10423.2	10067.8	9872.3	9477.0	9086.0	8053.9	7889.6	5892.0
35°	11680.3	11708.5	11462.7	11108.8	10720.8	10547.6	10048.5	9551.0	8584.0	8404.9	6238.5
37.5°	12170.4	12155.6	11938.0	11631.5	11290.9	11139.9	10716.4	10058.9	9154.1	8982.4	6617.6
40°	12345.2	12336.3	12174.9	11951.3	11735.1	11681.8	11415.3	10606.8	9807.2	9605.8	7073.7
42.5°	12234.1	12253.4	12146.8	12086.1	12046.1	12084.6	12109.7	11325.0	10519.4	10334.3	7568.2
45°	11893.6	11883.2	11868.4	11967.6	12192.6	12445.9	12796.8	12003.2	11293.9	11145.8	8231.6
47.5°	11285.0	11359.1	11396.1	11670.0	12161.6	12761.3	13587.6	12912.4	12417.8	12288.9	9243.0
50°	10433.5	10492.7	10711.9	11199.1	11932.1	12879.7	14360.6	14399.0	14292.5	14051.1	10341.7
52.5°	9103.8	9195.6	9647.3	10540.2	11461.1	12830.9	14828.4	15674.0	15814.7	15634.0	11424.1
55°	7615.6	7744.4	8221.3	9392.5	10812.6	12564.4	15151.3	16412.9	16974.1	16806.8	12466.6
57.5°	6158.6	6294.8	6784.9	7919.2	9681.3	11975.0	15363.1	17236.2	18552.6	18335.0	13763.8
60°	4615.6	4757.7	5178.3	6346.6	8070.2	10823.0	15219.4	17950.0	20129.7	20036.3	15062.4
62.5°	2977.8	3134.8	3500.6	4467.5	6203.0	9248.9	14450.9	18343.8	21495.0	21382.3	16010.1
65°	1814.0	1831.7	2033.1	2773.4	4245.4	7161.0	12693.2	17821.1	22214.6	22180.5	16298.9
67.5°	1172.8	1200.9	1292.7	1661.4	2545.5	4973.9	10149.2	16096.0	21794.0	21782.2	15702.1
70°	990.6	999.5	1041.0	1121.0	1479.3	3016.3	7127.0	13346.2	20196.3	20196.3	14267.2
72.5°	885.5	897.3	912.1	937.3	1055.8	1708.8	4252.8	10389.1	17437.6	17553.1	12143.8
75°	804.1	801.1	810.0	814.4	900.3	1116.5	2199.0	7683.7	13489.8	13258.9	8794.3
77.5°	688.5	693.0	688.5	707.8	795.2	850.0	1116.5	5156.1	8175.4	7876.2	4414.2
80°	565.7	573.1	580.5	592.3	679.7	645.6	670.8	2350.0	3023.7	2960.1	1363.8
82.5°	425.0	435.4	447.2	475.3	534.5	426.5	423.5	1004.0	1091.4	999.5	502.0
85°	171.7	202.8	306.5	334.6	336.1	234.0	260.6	419.1	445.7	435.4	197.0
87.5°	39.9	47.3	99.2	149.5	137.7	87.4	96.2	136.2	155.5	143.6	66.6
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°	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5
2.5°	2586.9	2535.1	2446.2	2378.1	2329.2	2286.3	2259.7	2243.4	2237.5	2236.0	2237.5
5°	2674.3	2582.5	2441.8	2352.9	2304.1	2275.9	2259.7	2258.2	2259.7	2261.1	2256.7
7.5°	2794.2	2662.4	2478.8	2395.9	2358.8	2338.1	2330.7	2327.8	2329.2	2327.8	2327.8
10°	2954.2	2773.4	2551.3	2465.5	2434.4	2410.7	2398.9	2391.5	2385.5	2379.6	2376.7
12.5°	3130.4	2896.4	2629.9	2547.0	2502.5	2465.5	2438.8	2419.6	2406.3	2392.9	2390.0
15°	3327.3	3026.7	2717.2	2601.7	2538.1	2483.2	2437.4	2406.3	2382.6	2363.3	2361.9
17.5°	3515.4	3149.6	2776.5	2626.9	2533.6	2456.6	2395.9	2352.9	2323.3	2298.2	2295.2
20°	3716.7	3266.6	2803.1	2610.6	2489.2	2395.9	2315.9	2264.1	2230.1	2201.9	2197.4
22.5°	3919.6	3365.8	2800.1	2558.7	2412.2	2302.6	2218.2	2163.4	2123.4	2095.3	2084.9
25°	4113.6	3445.7	2763.1	2475.8	2305.6	2191.6	2105.7	2055.3	2019.7	1985.7	1985.7
27.5°	4288.3	3493.2	2693.6	2375.2	2196.0	2076.0	2007.9	1962.1	1929.4	1907.2	1893.9
30°	4460.1	3515.4	2598.8	2247.8	2080.5	1978.3	1923.5	1896.9	1867.3	1842.0	1839.1
32.5°	4614.1	3510.9	2480.3	2123.4	1970.9	1898.4	1876.1	1855.4	1824.3	1788.8	1779.9
35°	4763.7	3481.3	2339.7	1987.2	1879.1	1851.0	1856.9	1827.2	1771.0	1726.6	1719.2
37.5°	4926.5	3428.0	2185.6	1876.1	1802.1	1828.8	1843.6	1778.4	1686.6	1617.0	1600.7
40°	5114.6	3367.3	2025.7	1765.1	1741.4	1808.1	1808.1	1688.1	1562.2	1519.3	1507.4
42.5°	5335.2	3316.9	1892.4	1671.8	1691.1	1757.7	1750.3	1568.1	1516.3	1494.1	1488.1
45°	5684.7	3299.2	1754.7	1590.3	1649.6	1698.5	1637.8	1526.7	1497.1	1479.3	1473.3
47.5°	6237.0	3319.9	1633.3	1529.6	1602.2	1639.2	1511.9	1498.6	1477.8	1452.7	1449.7
50°	6749.4	3300.7	1547.4	1495.6	1560.7	1568.1	1460.1	1464.5	1452.7	1424.5	1418.6
52.5°	7168.4	3240.0	1492.6	1477.8	1525.2	1443.7	1411.2	1427.4	1423.1	1387.5	1381.6
55°	7629.0	3202.9	1465.9	1477.8	1501.5	1335.7	1365.3	1389.0	1383.0	1357.9	1356.4
57.5°	8187.2	3210.3	1446.7	1482.3	1477.8	1280.8	1319.4	1347.5	1346.0	1338.6	1338.6
60°	8758.8	3213.3	1417.1	1480.7	1449.7	1238.0	1272.0	1312.0	1314.9	1319.4	1319.4
62.5°	8948.3	3084.5	1359.3	1454.1	1387.5	1196.5	1227.5	1282.4	1279.4	1291.3	1292.7
65°	8594.4	2727.6	1273.4	1393.4	1307.5	1166.9	1193.5	1243.8	1227.5	1258.6	1264.6
67.5°	7822.9	2256.7	1140.2	1283.9	1218.7	1135.8	1171.3	1190.5	1160.9	1221.6	1223.2
70°	6761.2	1762.1	971.4	1128.4	1118.0	1103.1	1153.5	1123.9	1082.5	1156.5	1141.7
72.5°	5653.6	1346.0	775.9	922.5	983.2	1054.3	1122.4	1038.0	980.3	1002.5	975.8
75°	4246.9	995.1	623.4	722.6	818.9	984.7	1094.3	934.4	845.5	824.8	818.9
77.5°	2164.9	650.1	466.4	540.5	614.5	889.9	1055.8	812.9	700.4	667.8	653.0
80°	773.0	404.3	328.7	373.2	414.6	765.6	922.5	672.3	543.5	537.5	543.5
82.5°	358.4	260.6	220.6	244.3	245.8	510.9	703.3	502.0	413.1	627.8	530.1
85°	154.0	130.3	124.4	121.4	112.5	228.1	395.4	269.5	420.5	188.0	173.2
87.5°	45.9	51.8	45.9	34.1	25.1	25.1	39.9	14.8	10.3	7.4	7.4
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)