

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: P317431

Luminaire Tested: **GAN-SA7A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 34341 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

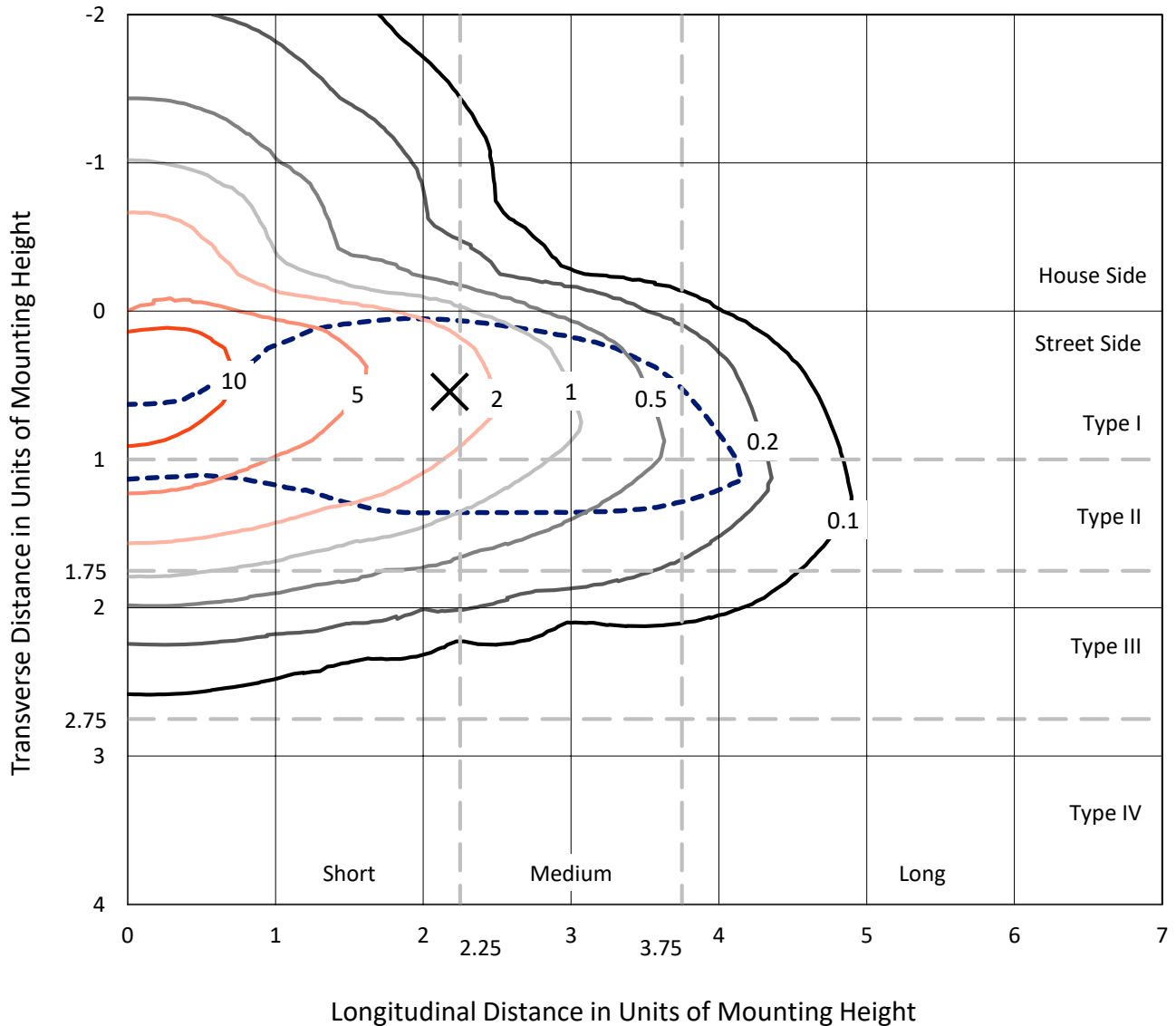
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

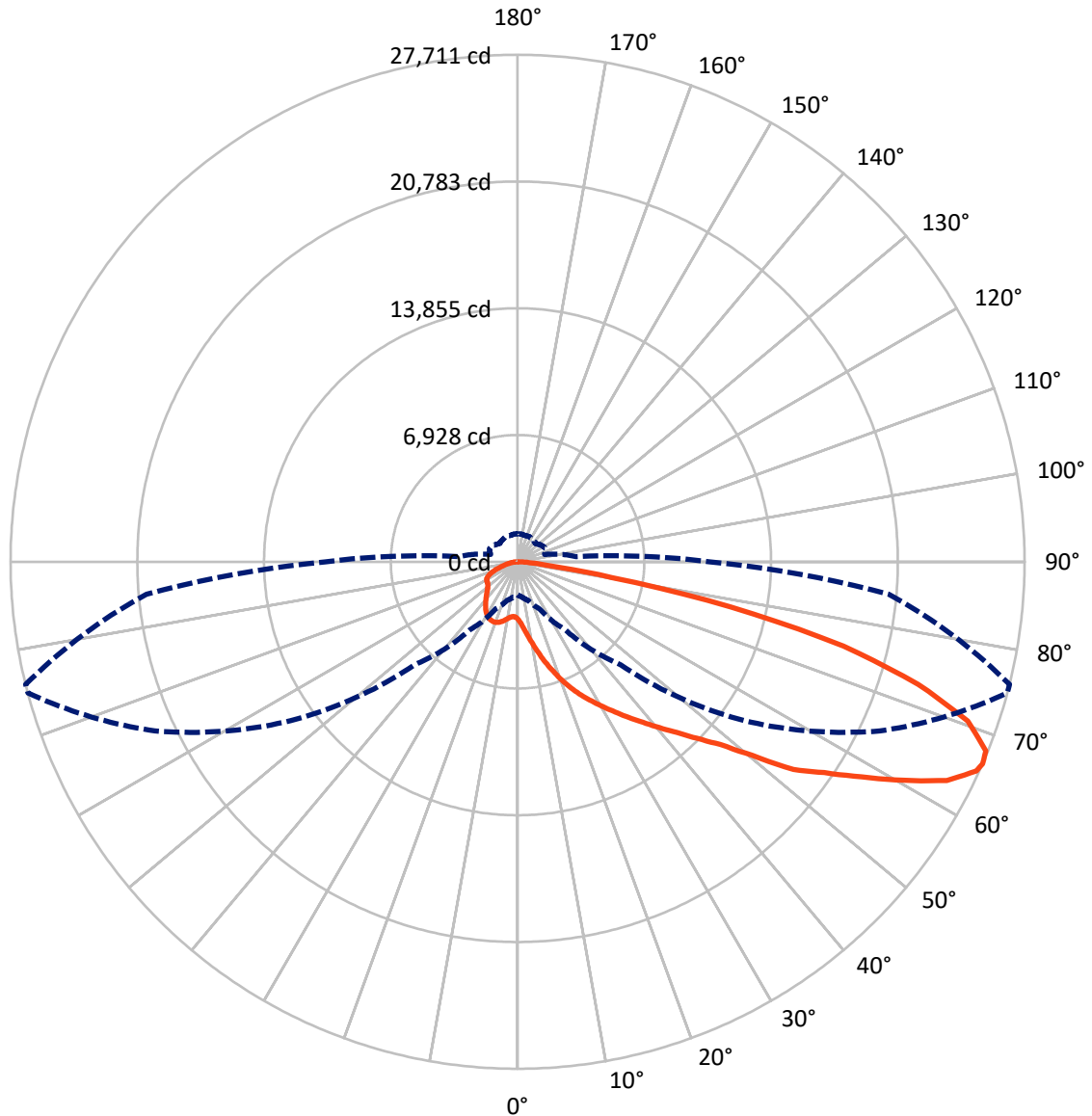
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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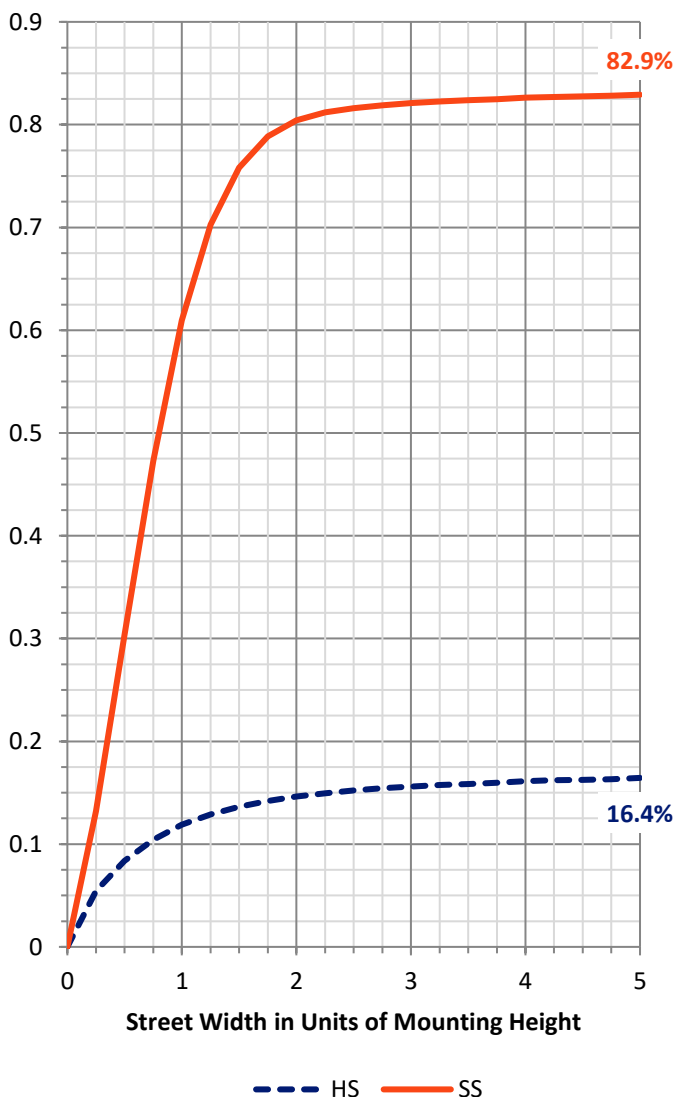
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5778.4	0.0	5778.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28562.6	0.0	28562.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	34341.0	0.0	34341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.1
10°-20°	1497.6	4.4
20°-30°	2910.2	8.5
30°-40°	4750.1	13.8
40°-50°	6489.8	18.9
50°-60°	7559.3	22.0
60°-70°	6777.0	19.7
70°-80°	3424.8	10.0
80°-90°	553.1	1.6
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°	34341.0	100.0
0°-180°	34341.0	100.0

Coefficient of Utilization

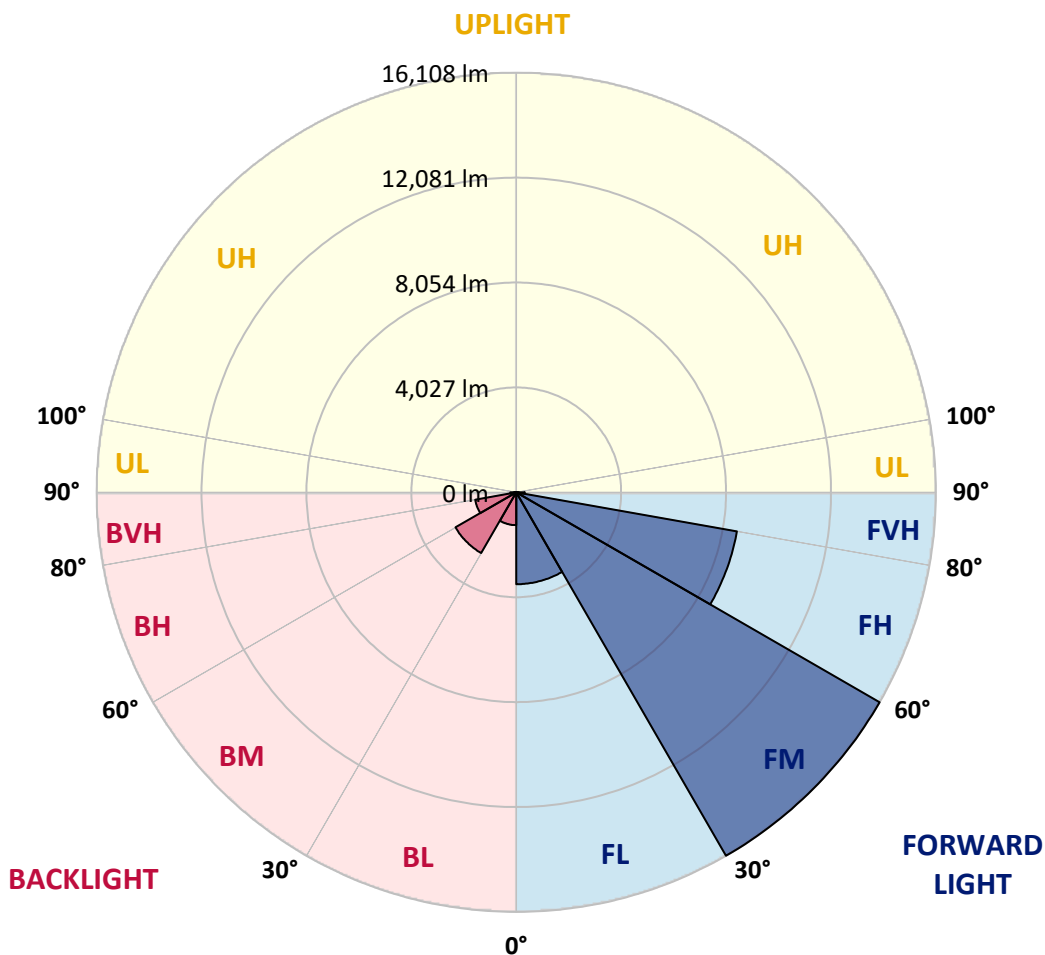


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3526.7	10.3			
FM (30°-60°)	16108.3	46.9			
FH (60°-80°)	8600.9	25.0			G4/12000
FVH (80°-90°)	326.6	1.0			G3/500
BL (0°-30°)	1260.3	3.7	B3/2500		
BM (30°-60°)	2690.8	7.8	B3/5000		
BH (60°-80°)	1600.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	226.4	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1
2.5°	4163.2	4100.3	4094.4	4002.3	3981.3	3805.3	3675.9	3540.7	3386.8	3356.5	3235.2
5°	5347.7	5341.9	5261.4	5111.0	4993.3	4692.5	4395.2	4080.4	3735.3	3679.4	3406.6
7.5°	6413.3	6404.0	6342.2	6180.1	6009.9	5640.3	5216.0	4733.3	4173.7	4090.9	3638.6
10°	7222.4	7218.9	7197.9	7079.0	6934.4	6580.0	6111.3	5452.6	4683.2	4570.1	3928.9
12.5°	7847.3	7854.3	7868.2	7826.3	7757.5	7455.5	6975.2	6215.1	5226.5	5114.5	4251.8
15°	8270.5	8291.4	8363.7	8423.2	8459.3	8274.0	7808.8	6995.0	5835.0	5701.0	4609.7
17.5°	8483.8	8507.1	8631.9	8811.4	8977.0	8958.3	8588.7	7738.8	6419.1	6289.7	4994.5
20°	8668.0	8685.5	8825.4	9041.1	9333.7	9463.1	9255.6	8454.7	7059.2	6905.3	5402.5
22.5°	9202.0	9224.1	9266.1	9388.5	9647.3	9885.2	9784.9	9132.0	7645.6	7502.2	5789.6
25°	10232.6	10259.4	10168.5	10064.7	10113.7	10279.2	10297.9	9749.9	8240.2	8078.1	6205.8
27.5°	11474.2	11512.7	11357.6	11090.6	10857.5	10793.3	10771.2	10255.9	8807.9	8620.2	6617.3
30°	12690.2	12756.6	12554.9	12208.7	11780.8	11480.0	11257.3	10751.4	9367.5	9188.0	7005.5
32.5°	13878.2	13851.3	13558.7	13220.6	12719.3	12342.7	11804.1	11283.0	9997.1	9790.7	7391.4
35°	14691.9	14701.2	14429.6	14028.5	13550.6	13261.4	12536.3	11856.6	10639.4	10449.4	7829.8
37.5°	15384.4	15341.3	15033.5	14659.3	14247.7	14124.1	13393.2	12488.5	11335.5	11127.9	8296.1
40°	15615.3	15565.1	15363.4	15094.1	14764.2	14753.7	14338.7	13204.3	12122.4	11917.2	8821.9
42.5°	15475.4	15411.2	15328.5	15255.0	15153.6	15200.2	15227.0	14043.7	12987.5	12757.8	9430.5
45°	14958.9	14862.1	14920.4	15080.1	15300.5	15564.0	16029.1	14972.9	13956.3	13763.9	10145.1
47.5°	14164.9	14077.5	14259.4	14601.0	15200.2	15867.1	16788.1	15998.8	15112.8	14921.6	11162.9
50°	13048.1	13073.7	13333.7	13955.1	14861.0	16007.0	17723.1	17357.0	16793.9	16615.5	12551.4
52.5°	11215.4	11220.0	11952.2	12972.3	14259.4	15934.7	18241.9	19093.0	19089.5	18873.8	13873.5
55°	9513.2	9617.0	10196.4	11552.3	13284.7	15645.6	18604.5	19937.0	20596.9	20343.9	15105.8
57.5°	7850.8	7911.4	8460.5	9822.2	11893.9	14874.9	18976.4	20950.1	22334.0	22174.3	16637.7
60°	5959.8	6053.0	6620.8	7878.7	10114.8	13507.4	19011.3	22007.5	24410.3	24249.5	18348.0
62.5°	3868.3	4029.1	4560.8	5739.4	7962.7	11540.6	18199.9	22698.9	26378.3	26321.2	19865.9
65°	2223.3	2344.5	2714.1	3623.4	5493.4	9071.4	16270.5	22433.1	27589.6	27556.9	20433.7
66°	1816.4	1892.2	2175.5	2831.8	4532.8	7966.2	15148.9	21872.3	27709.7	27710.8	20368.4
67.5°	1452.6	1486.4	1613.5	2027.4	3344.8	6314.2	13144.8	20635.4	27560.4	27601.2	19947.5
70°	1202.0	1219.5	1259.1	1359.4	1825.7	3807.6	9330.2	17421.1	26062.3	26093.8	18304.8
72.5°	1078.4	1088.9	1104.0	1118.0	1288.3	2127.7	5698.6	13936.4	22850.5	22891.3	15801.8
75°	977.0	982.8	980.5	981.6	1080.7	1355.9	2944.9	10405.1	18476.2	18394.6	12104.9
77.5°	858.1	863.9	852.2	854.6	956.0	1042.3	1465.5	7284.2	12468.7	11892.7	6820.2
80°	725.2	729.8	725.2	733.3	832.4	786.9	852.2	4097.9	5513.3	5214.8	2424.9
82.5°	547.9	567.8	581.8	614.4	685.5	559.6	570.1	1596.0	1678.8	1598.4	743.8
85°	240.2	292.6	438.4	469.8	515.3	335.8	374.2	650.5	683.2	662.2	270.5
87.5°	63.0	68.8	216.8	272.8	285.6	151.6	194.7	296.1	312.4	296.1	89.8
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°	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1	3136.1
2.5°	3171.1	3114.0	3011.4	2920.4	2851.6	2805.0	2758.4	2735.1	2721.1	2707.1	2709.4
5°	3272.5	3157.1	2981.1	2856.3	2786.4	2742.1	2718.7	2709.4	2703.6	2689.6	2689.6
7.5°	3425.2	3262.0	3019.5	2891.3	2836.5	2802.7	2788.7	2784.0	2777.0	2760.7	2763.0
10°	3617.6	3389.1	3100.0	2975.2	2925.1	2887.8	2868.0	2861.0	2848.1	2829.5	2831.8
12.5°	3843.8	3546.5	3206.1	3075.5	3014.9	2964.7	2932.1	2912.3	2890.1	2865.6	2866.8
15°	4090.9	3717.9	3320.3	3165.3	3082.5	3012.5	2960.1	2926.3	2891.3	2861.0	2859.8
17.5°	4341.6	3883.4	3407.7	3214.2	3102.3	3010.2	2939.1	2886.6	2843.5	2806.2	2802.7
20°	4612.1	4032.6	3456.7	3209.6	3065.0	2955.4	2861.0	2795.7	2747.9	2710.6	2704.7
22.5°	4887.2	4172.5	3464.9	3161.8	2982.2	2848.1	2749.0	2676.8	2627.8	2589.3	2575.3
25°	5139.0	4281.0	3431.1	3069.7	2866.8	2722.2	2625.5	2552.0	2512.4	2466.9	2452.9
27.5°	5368.7	4356.7	3363.4	2951.9	2737.4	2595.2	2504.2	2441.3	2398.1	2363.2	2351.5
30°	5575.0	4397.5	3252.7	2812.0	2604.5	2475.1	2398.1	2355.0	2317.7	2273.4	2265.2
32.5°	5770.9	4397.5	3110.5	2659.3	2472.7	2369.0	2323.5	2296.7	2254.7	2211.6	2199.9
35°	5966.8	4370.7	2942.6	2499.6	2351.5	2293.2	2290.9	2259.4	2195.3	2137.0	2121.8
37.5°	6173.1	4315.9	2753.7	2350.3	2252.4	2259.4	2279.2	2209.3	2118.3	2035.6	2013.4
40°	6406.3	4240.2	2557.9	2220.9	2169.6	2244.2	2247.7	2137.0	1959.8	1884.0	1864.2
42.5°	6680.3	4164.4	2376.0	2106.7	2104.3	2198.8	2188.3	1980.8	1874.7	1836.2	1825.7
45°	7040.5	4121.2	2203.4	1998.2	2053.0	2125.3	2086.9	1894.5	1850.2	1828.0	1818.7
47.5°	7608.3	4143.4	2044.9	1912.0	2001.7	2051.9	1898.0	1859.5	1828.0	1801.2	1791.9
50°	8319.4	4130.6	1916.6	1852.5	1943.5	1974.9	1812.9	1814.0	1797.7	1767.4	1753.4
52.5°	8854.5	4030.3	1833.9	1818.7	1892.2	1838.5	1759.3	1769.7	1761.6	1717.3	1702.1
55°	9371.0	3944.0	1791.9	1805.9	1854.9	1668.3	1696.3	1721.9	1713.8	1670.6	1663.7
57.5°	10013.4	3927.7	1766.2	1809.4	1823.4	1583.2	1635.7	1669.5	1663.7	1645.0	1641.5
60°	10800.3	3932.4	1742.9	1815.2	1788.4	1520.3	1578.5	1621.7	1625.2	1621.7	1619.4
62.5°	11232.9	3805.3	1684.6	1798.9	1726.6	1465.5	1519.1	1582.0	1583.2	1590.2	1589.0
65°	10865.6	3425.2	1576.2	1741.8	1622.8	1420.0	1467.8	1536.6	1519.1	1550.6	1550.6
66°	10508.9	3206.1	1522.6	1704.5	1578.5	1402.5	1451.5	1513.3	1491.1	1534.2	1534.2
67.5°	9780.2	2836.5	1425.8	1625.2	1515.6	1378.0	1432.8	1474.8	1444.5	1508.6	1503.9
70°	8448.8	2194.1	1231.1	1445.6	1411.8	1341.9	1407.2	1397.8	1353.5	1451.5	1432.8
72.5°	7123.3	1667.2	988.6	1210.1	1254.4	1296.4	1371.0	1299.9	1244.0	1312.7	1271.9
75°	5527.2	1253.3	781.1	940.8	1059.7	1225.3	1327.9	1186.8	1106.4	1099.4	1077.2
77.5°	2988.0	860.4	619.1	718.2	841.7	1136.7	1298.7	1065.6	944.3	916.3	898.9
80°	1183.3	559.6	450.0	544.4	588.7	1008.5	1228.8	924.5	778.8	750.8	724.0
82.5°	488.5	331.1	290.3	364.9	383.6	862.7	1102.9	757.8	601.6	832.4	883.7
85°	209.9	181.9	172.5	188.9	216.8	605.1	877.9	578.3	649.4	579.4	460.5
87.5°	63.0	76.9	73.4	72.3	79.3	144.6	467.5	321.8	476.8	180.7	135.2
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)