

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: P317470

Luminaire Tested: **GAN-SA6A-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317470
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-SA6A-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 29037 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

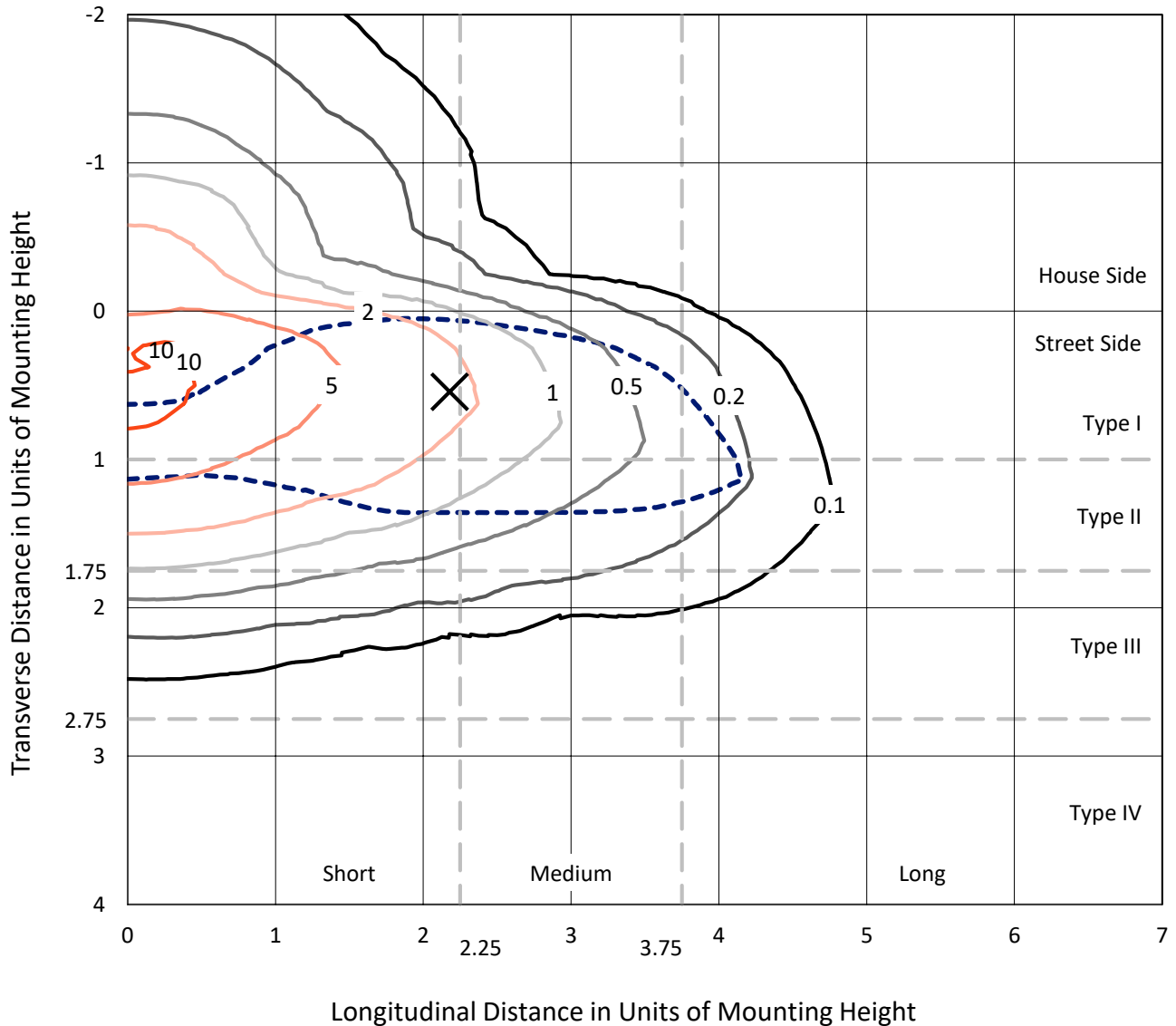
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

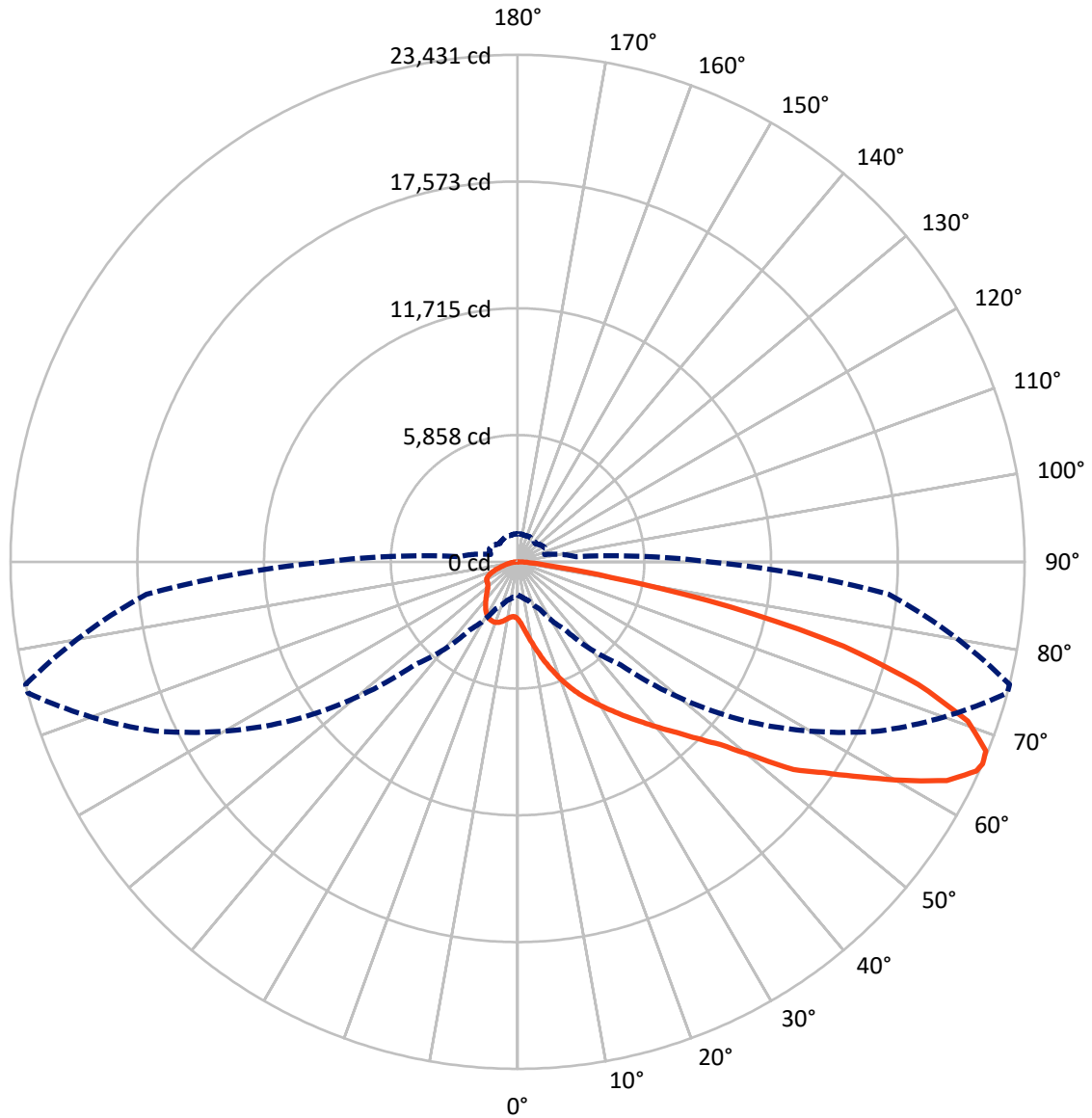
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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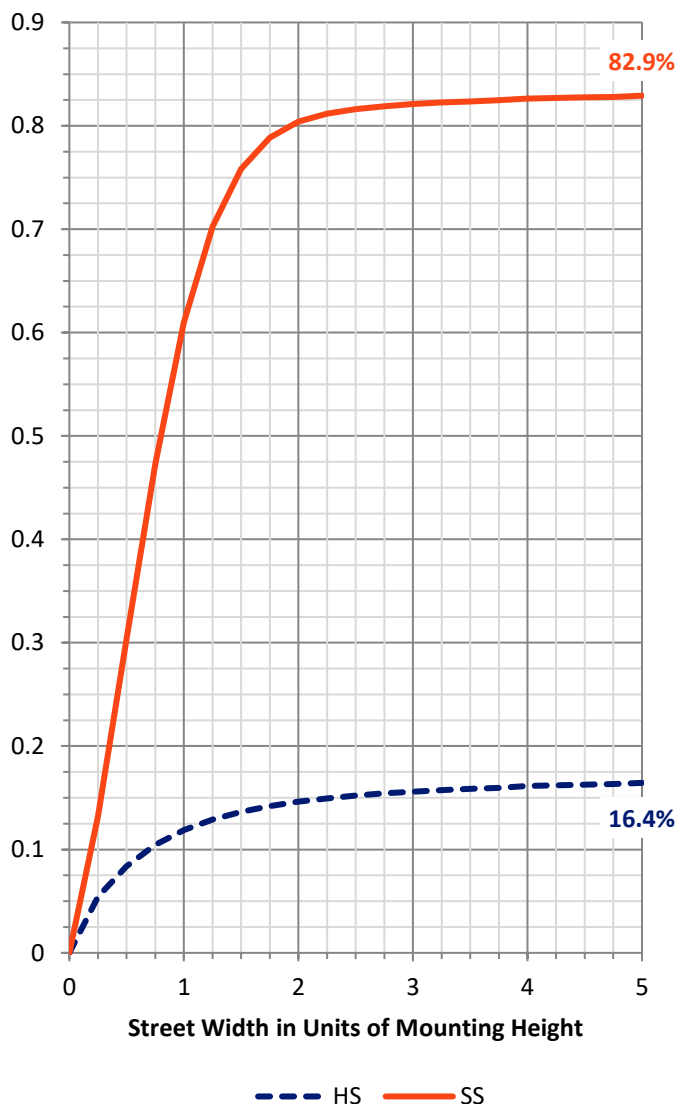
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4885.9	0.0	4885.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24151.1	0.0	24151.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	29037.0	0.0	29037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.1
10°-20°	1266.3	4.4
20°-30°	2460.7	8.5
30°-40°	4016.4	13.8
40°-50°	5487.4	18.9
50°-60°	6391.7	22.0
60°-70°	5730.3	19.7
70°-80°	2895.8	10.0
80°-90°	467.6	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°	29037.0	100.0
0°-180°	29037.0	100.0

Coefficient of Utilization



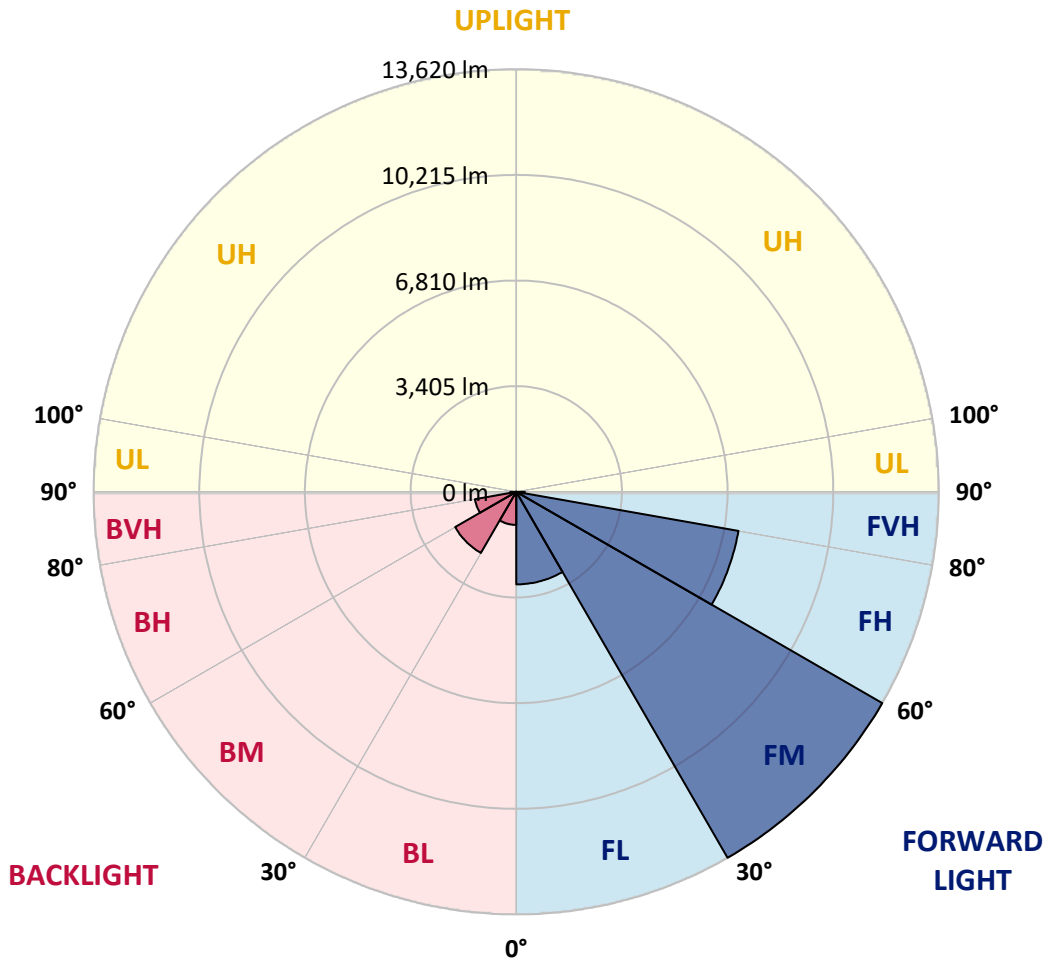
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.0	10.3			
FM (30°-60°)	13620.4	46.9			
FH (60°-80°)	7272.5	25.0			G3/7500
FVH (80°-90°)	276.2	1.0			G3/500
BL (0°-30°)	1065.6	3.7	B3/2500		
BM (30°-60°)	2275.2	7.8	B2/2500		
BH (60°-80°)	1353.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	191.5	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°	65°	75°	76°	85°
0°	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7
2.5°	3520.2	3467.0	3462.0	3384.2	3366.4	3217.6	3108.1	2993.8	2863.7	2838.0	2735.5
5°	4521.7	4516.8	4448.8	4321.6	4222.1	3967.7	3716.4	3450.2	3158.4	3111.1	2880.4
7.5°	5422.7	5414.9	5362.6	5225.6	5081.7	4769.2	4410.4	4002.2	3529.1	3459.1	3076.6
10°	6106.9	6103.9	6086.2	5985.6	5863.4	5563.7	5167.4	4610.5	3959.9	3864.2	3322.1
12.5°	6635.2	6641.2	6653.0	6617.5	6559.3	6304.0	5897.9	5255.2	4419.2	4324.6	3595.1
15°	6993.1	7010.8	7071.9	7122.2	7152.8	6996.0	6602.7	5914.6	4933.8	4820.4	3897.8
17.5°	7173.5	7193.2	7298.7	7450.5	7590.5	7574.7	7262.2	6543.6	5427.7	5318.3	4223.1
20°	7329.2	7344.0	7462.3	7644.7	7892.1	8001.5	7826.1	7148.8	5968.9	5838.7	4568.1
22.5°	7780.7	7799.4	7834.9	7938.4	8157.3	8358.4	8273.6	7721.6	6464.7	6343.5	4895.4
25°	8652.1	8674.8	8597.9	8510.2	8551.6	8691.6	8707.3	8244.0	6967.5	6830.4	5247.3
27.5°	9702.0	9734.5	9603.4	9377.7	9180.5	9126.3	9107.6	8671.9	7447.5	7288.8	5595.3
30°	10730.2	10786.3	10615.8	10323.0	9961.2	9706.9	9518.6	9090.8	7920.7	7768.9	5923.5
32.5°	11734.7	11712.0	11464.6	11178.7	10754.8	10436.4	9981.0	9540.3	8453.0	8278.5	6249.8
35°	12422.7	12430.6	12200.9	11861.8	11457.7	11213.2	10600.0	10025.3	8996.2	8835.5	6620.5
37.5°	13008.3	12971.8	12711.6	12395.1	12047.1	11942.7	11324.6	10559.6	9584.7	9409.2	7014.8
40°	13203.5	13161.1	12990.5	12762.8	12483.8	12475.0	12124.0	11164.9	10250.1	10076.6	7459.4
42.5°	13085.2	13031.0	12961.0	12898.9	12813.1	12852.5	12875.2	11874.6	10981.5	10787.3	7973.9
45°	12648.5	12566.7	12615.9	12751.0	12937.3	13160.1	13553.4	12660.3	11800.7	11638.1	8578.2
47.5°	11977.2	11903.2	12057.0	12345.8	12852.5	13416.4	14195.2	13527.8	12778.6	12616.9	9438.8
50°	11032.8	11054.5	11274.3	11799.7	12565.7	13534.7	14985.7	14676.2	14200.1	14049.3	10612.8
52.5°	9483.1	9487.1	10106.2	10968.7	12057.0	13473.6	15424.4	16144.0	16141.1	15958.7	11730.7
55°	8043.9	8131.7	8621.6	9768.0	11232.9	13229.1	15731.0	16857.7	17415.7	17201.8	12772.7
57.5°	6638.2	6689.5	7153.8	8305.1	10056.9	12577.5	16045.4	17714.4	18884.5	18749.4	14068.0
60°	5039.3	5118.1	5598.2	6661.9	8552.6	11421.2	16075.0	18608.5	20640.1	20504.1	15514.1
62.5°	3270.8	3406.8	3856.3	4853.0	6732.8	9758.2	15388.9	19193.0	22304.1	22255.8	16797.6
65°	1879.9	1982.4	2294.9	3063.8	4645.0	7670.3	13757.5	18968.3	23328.4	23300.7	17277.7
66°	1535.8	1599.9	1839.5	2394.4	3832.7	6735.8	12809.2	18494.1	23429.9	23430.9	17222.5
67.5°	1228.3	1256.9	1364.3	1714.3	2828.2	5339.0	11114.6	17448.2	23303.7	23338.2	16866.6
70°	1016.3	1031.1	1064.6	1149.4	1543.7	3219.5	7889.2	14730.4	22037.0	22063.6	15477.6
72.5°	911.8	920.7	933.5	945.4	1089.3	1799.0	4818.5	11783.9	19321.2	19355.7	13361.2
75°	826.1	831.0	829.0	830.0	913.8	1146.5	2490.1	8798.0	15622.6	15553.5	10235.3
77.5°	725.5	730.5	720.6	722.6	808.3	881.3	1239.1	6159.1	10542.9	10055.9	5766.8
80°	613.2	617.1	613.2	620.1	703.8	665.4	720.6	3465.0	4661.7	4409.4	2050.4
82.5°	463.3	480.1	491.9	519.5	579.6	473.2	482.0	1349.5	1419.5	1351.5	628.9
85°	203.1	247.4	370.7	397.3	435.7	283.9	316.4	550.1	577.7	559.9	228.7
87.5°	53.2	58.2	183.4	230.7	241.5	128.2	164.6	250.4	264.2	250.4	75.9
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°	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7	2651.7
2.5°	2681.3	2633.0	2546.3	2469.4	2411.2	2371.8	2332.3	2312.6	2300.8	2289.0	2290.9
5°	2767.1	2669.5	2520.6	2415.1	2356.0	2318.5	2298.8	2290.9	2286.0	2274.2	2274.2
7.5°	2896.2	2758.2	2553.2	2444.7	2398.4	2369.8	2358.0	2354.0	2348.1	2334.3	2336.3
10°	3058.9	2865.6	2621.2	2515.7	2473.3	2441.8	2425.0	2419.1	2408.2	2392.5	2394.4
12.5°	3250.1	2998.7	2710.9	2600.5	2549.2	2506.8	2479.2	2462.5	2443.7	2423.0	2424.0
15°	3459.1	3143.6	2807.5	2676.4	2606.4	2547.2	2502.9	2474.3	2444.7	2419.1	2418.1
17.5°	3671.0	3283.6	2881.4	2717.8	2623.1	2545.3	2485.1	2440.8	2404.3	2372.8	2369.8
20°	3899.7	3409.8	2922.8	2713.8	2591.6	2498.9	2419.1	2363.9	2323.5	2291.9	2287.0
22.5°	4132.4	3528.1	2929.7	2673.4	2521.6	2408.2	2324.5	2263.3	2221.9	2189.4	2177.6
25°	4345.3	3619.8	2901.1	2595.5	2424.0	2301.8	2220.0	2157.9	2124.3	2085.9	2074.1
27.5°	4539.5	3683.8	2844.0	2496.0	2314.6	2194.3	2117.4	2064.2	2027.7	1998.2	1988.3
30°	4714.0	3718.3	2750.3	2377.7	2202.2	2092.8	2027.7	1991.3	1959.7	1922.3	1915.4
32.5°	4879.6	3718.3	2630.0	2248.6	2090.8	2003.1	1964.6	1942.0	1906.5	1870.0	1860.2
35°	5045.2	3695.7	2488.1	2113.5	1988.3	1939.0	1937.0	1910.4	1856.2	1806.9	1794.1
37.5°	5219.7	3649.3	2328.4	1987.3	1904.5	1910.4	1927.2	1868.0	1791.2	1721.2	1702.4
40°	5416.8	3585.3	2162.8	1877.9	1834.5	1897.6	1900.6	1806.9	1657.1	1593.0	1576.3
42.5°	5648.5	3521.2	2009.0	1781.3	1779.3	1859.2	1850.3	1674.8	1585.1	1552.6	1543.7
45°	5953.1	3484.7	1863.1	1689.6	1735.9	1797.1	1764.5	1601.9	1564.4	1545.7	1537.8
47.5°	6433.2	3503.4	1729.0	1616.7	1692.6	1735.0	1604.8	1572.3	1545.7	1523.0	1515.1
50°	7034.5	3492.6	1620.6	1566.4	1643.3	1669.9	1532.9	1533.9	1520.1	1494.4	1482.6
52.5°	7487.0	3407.8	1550.6	1537.8	1599.9	1554.6	1487.5	1496.4	1489.5	1452.0	1439.2
55°	7923.7	3334.9	1515.1	1527.0	1568.4	1410.6	1434.3	1456.0	1449.1	1412.6	1406.7
57.5°	8466.8	3321.1	1493.4	1529.9	1541.8	1338.7	1383.0	1411.6	1406.7	1390.9	1388.0
60°	9132.2	3325.0	1473.7	1534.9	1512.2	1285.4	1334.7	1371.2	1374.2	1371.2	1369.2
62.5°	9497.9	3217.6	1424.4	1521.0	1459.9	1239.1	1284.5	1337.7	1338.7	1344.6	1343.6
65°	9187.4	2896.2	1332.8	1472.7	1372.2	1200.7	1241.1	1299.3	1284.5	1311.1	1311.1
66°	8885.8	2710.9	1287.4	1441.2	1334.7	1185.9	1227.3	1279.5	1260.8	1297.3	1297.3
67.5°	8269.7	2398.4	1205.6	1374.2	1281.5	1165.2	1211.5	1247.0	1221.4	1275.6	1271.6
70°	7143.9	1855.2	1041.0	1222.4	1193.8	1134.6	1189.8	1181.9	1144.5	1227.3	1211.5
72.5°	6023.1	1409.7	835.9	1023.2	1060.7	1096.2	1159.3	1099.1	1051.8	1110.0	1075.5
75°	4673.6	1059.7	660.5	795.5	896.1	1036.0	1122.8	1003.5	935.5	929.6	910.9
77.5°	2526.5	727.5	523.4	607.2	711.7	961.1	1098.2	901.0	798.5	774.8	760.0
80°	1000.6	473.2	380.5	460.4	497.8	852.7	1039.0	781.7	658.5	634.8	612.2
82.5°	413.0	280.0	245.5	308.5	324.3	729.5	932.5	640.8	508.7	703.8	747.2
85°	177.4	153.8	145.9	159.7	183.4	511.6	742.3	488.9	549.1	489.9	389.4
87.5°	53.2	65.1	62.1	61.1	67.0	122.2	395.3	272.1	403.2	152.8	114.3
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)