

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: P317458

Luminaire Tested: **GAN-SA4D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317458
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-SA4D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32609 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

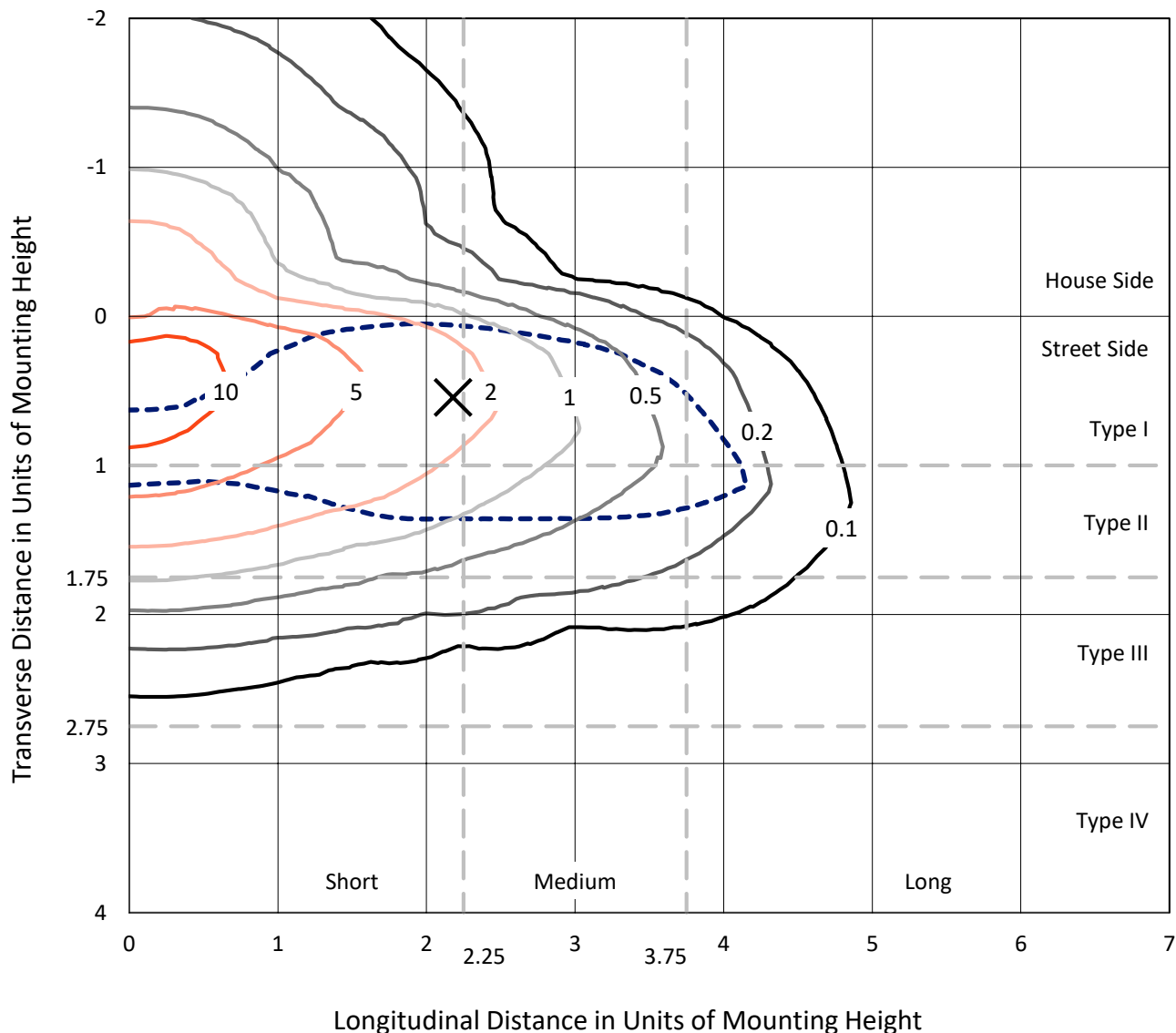
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

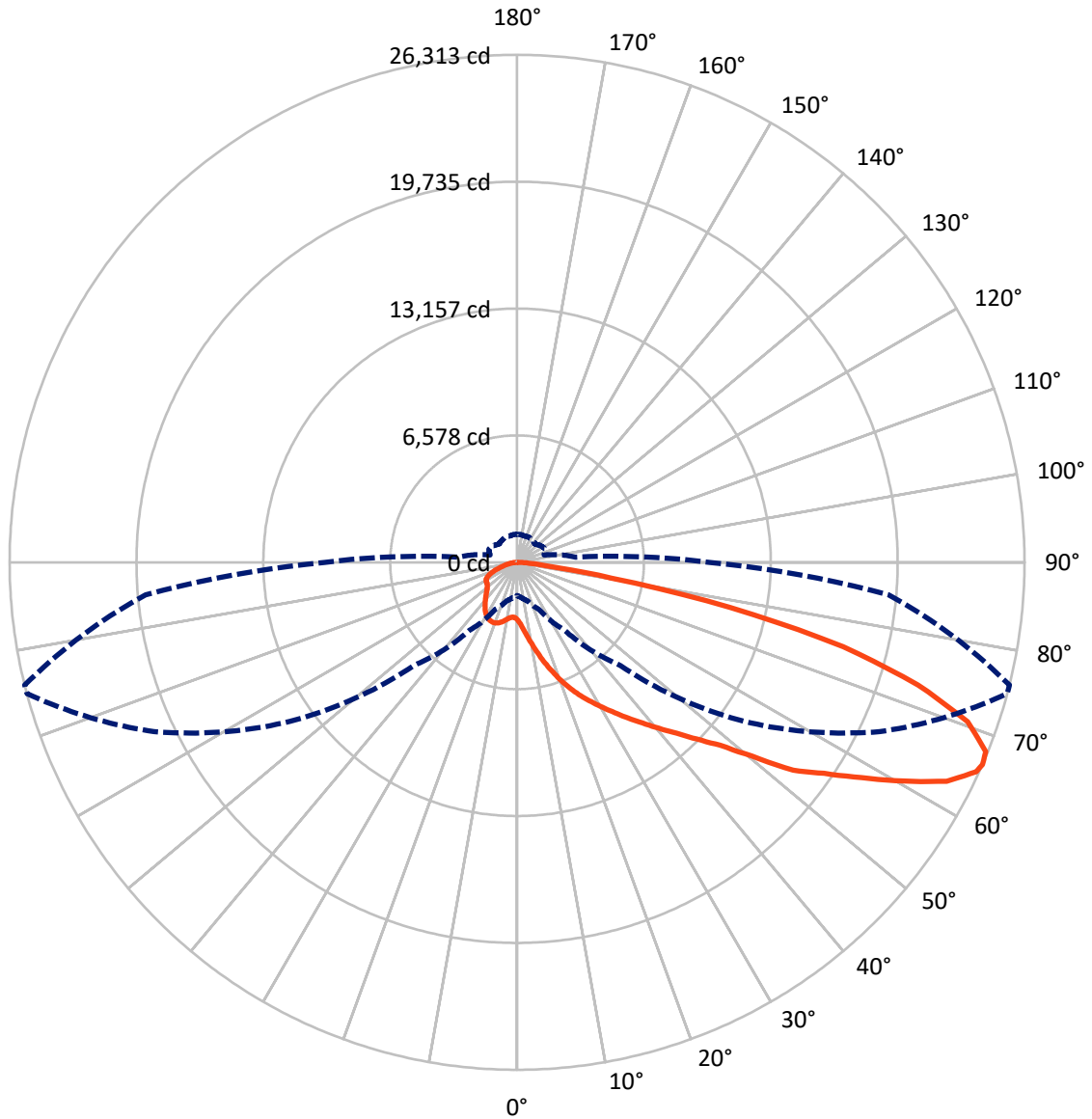
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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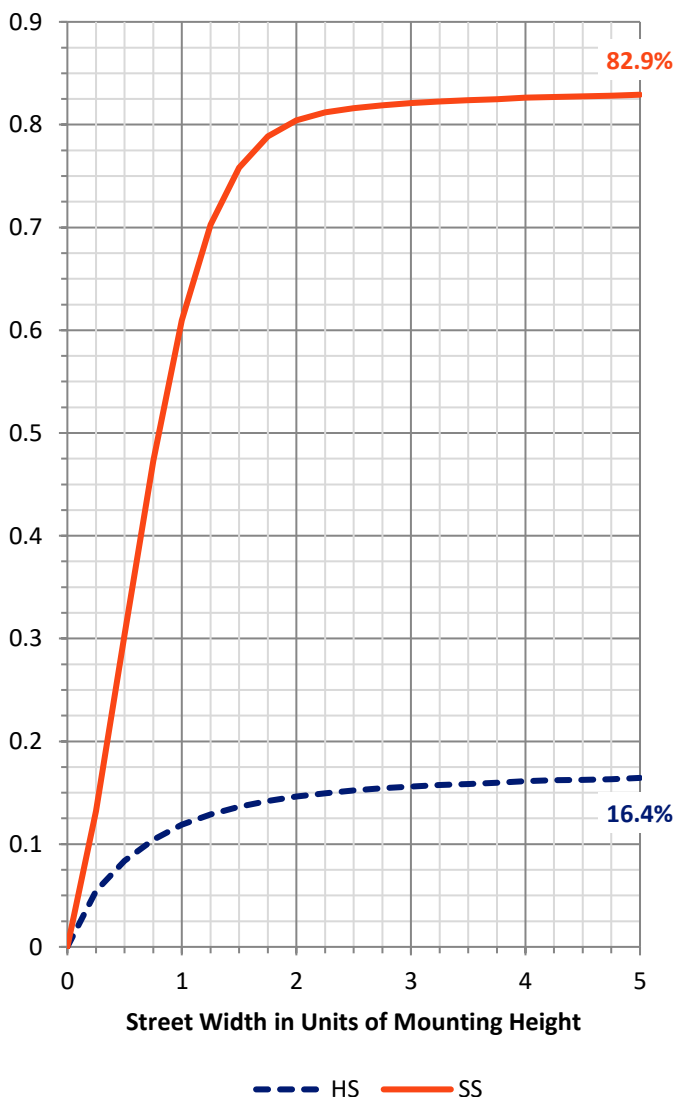
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5487.0	0.0	5487.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27122.0	0.0	27122.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	32609.0	0.0	32609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	1.1
10°-20°	1422.1	4.4
20°-30°	2763.4	8.5
30°-40°	4510.5	13.8
40°-50°	6162.4	18.9
50°-60°	7178.0	22.0
60°-70°	6435.2	19.7
70°-80°	3252.1	10.0
80°-90°	525.2	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°	32609.0	100.0
0°-180°	32609.0	100.0

Coefficient of Utilization

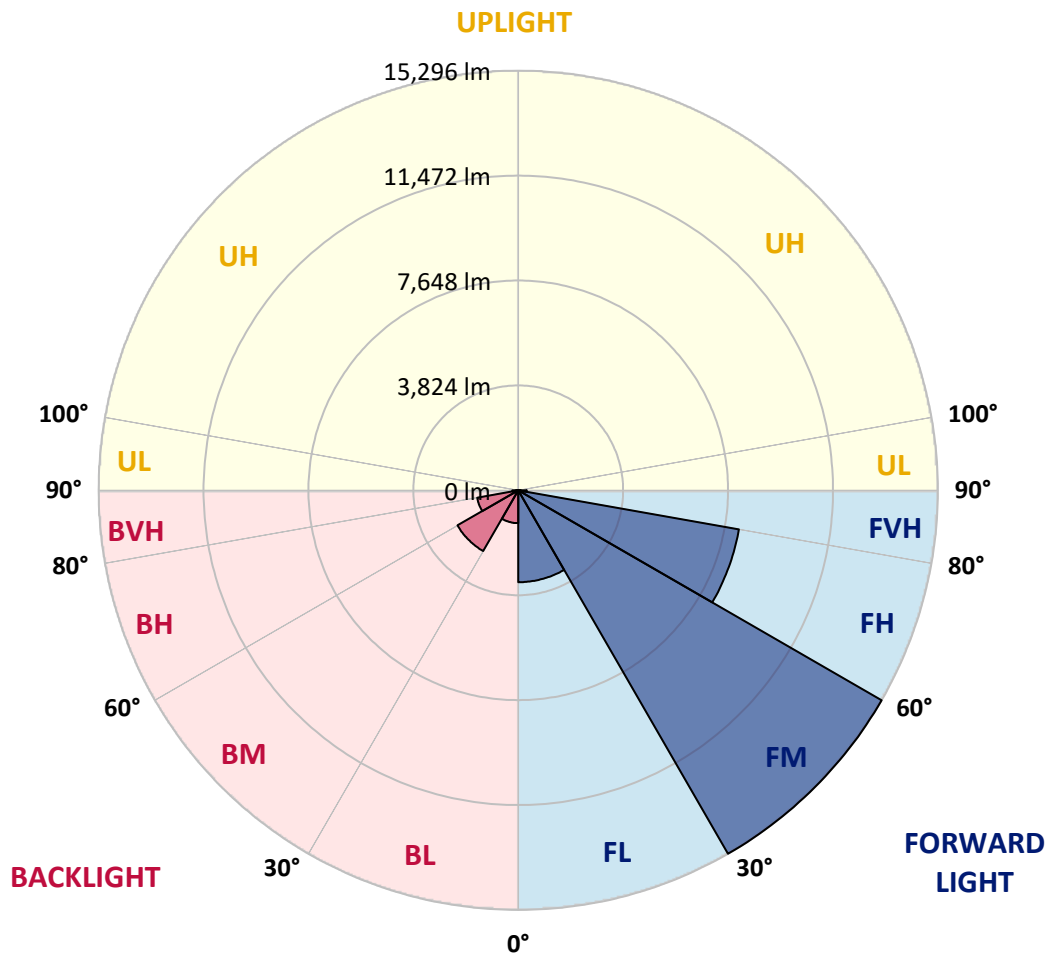


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3348.9	10.3			
FM (30°-60°)	15295.9	46.9			
FH (60°-80°)	8167.1	25.0			G4/12000
FVH (80°-90°)	310.1	1.0			G3/500
BL (0°-30°)	1196.7	3.7	B3/2500		
BM (30°-60°)	2555.1	7.8	B3/5000		
BH (60°-80°)	1520.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	215.0	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9
2.5°	3953.2	3893.5	3887.9	3800.5	3780.5	3613.4	3490.5	3362.1	3216.0	3187.2	3072.0
5°	5078.0	5072.5	4996.1	4853.3	4741.5	4455.8	4173.5	3874.6	3547.0	3493.8	3234.8
7.5°	6089.8	6081.0	6022.3	5868.4	5706.8	5355.9	4952.9	4494.6	3963.2	3884.6	3455.1
10°	6858.1	6854.8	6834.9	6721.9	6584.7	6248.1	5803.1	5177.6	4447.0	4339.6	3730.7
12.5°	7451.5	7458.1	7471.4	7431.6	7366.2	7079.5	6623.4	5901.6	4962.9	4856.6	4037.4
15°	7853.3	7873.3	7941.9	7998.4	8032.7	7856.7	7415.0	6642.2	5540.7	5413.4	4377.2
17.5°	8055.9	8078.1	8196.5	8367.0	8524.2	8506.5	8155.6	7348.5	6095.4	5972.5	4742.6
20°	8230.8	8247.4	8380.3	8585.1	8863.0	8985.8	8788.8	8028.3	6703.1	6557.0	5130.0
22.5°	8737.9	8758.9	8798.8	8915.0	9160.8	9386.6	9291.4	8671.4	7260.0	7123.8	5497.6
25°	9716.5	9742.0	9655.6	9557.1	9603.6	9760.8	9778.5	9258.2	7824.6	7670.7	5892.8
27.5°	10895.5	10932.0	10784.8	10531.3	10309.9	10249.0	10227.9	9738.6	8363.7	8185.5	6283.6
30°	12050.1	12113.2	11921.7	11592.9	11186.6	10901.0	10689.6	10209.1	8895.1	8724.6	6652.2
32.5°	13178.2	13152.7	12874.9	12553.8	12077.8	11720.2	11208.8	10713.9	9492.9	9296.9	7018.6
35°	13950.9	13959.8	13701.8	13321.0	12867.1	12592.6	11904.0	11258.6	10102.8	9922.4	7434.9
37.5°	14608.5	14567.5	14275.3	13919.9	13529.1	13411.8	12717.7	11858.6	10763.7	10566.7	7877.7
40°	14827.7	14780.1	14588.6	14332.8	14019.6	14009.6	13615.5	12538.3	11511.0	11316.2	8377.0
42.5°	14694.8	14634.0	14555.4	14485.6	14389.3	14433.6	14459.0	13335.4	12332.4	12114.3	8954.8
45°	14204.4	14112.5	14167.9	14319.6	14528.8	14779.0	15220.7	14217.7	13252.4	13069.7	9633.5
47.5°	13450.5	13367.5	13540.2	13864.6	14433.6	15066.8	15941.4	15191.9	14350.6	14169.0	10599.9
50°	12390.0	12414.3	12661.2	13251.3	14111.4	15199.7	16829.2	16481.6	15946.9	15777.5	11918.4
52.5°	10649.7	10654.2	11349.4	12318.0	13540.2	15131.0	17321.9	18130.0	18126.7	17921.9	13173.8
55°	9033.4	9132.0	9682.2	10969.7	12614.7	14856.5	17666.1	18931.5	19558.1	19317.8	14343.9
57.5°	7454.8	7512.4	8033.8	9326.8	11294.0	14124.7	18019.3	19893.5	21207.6	21055.9	15798.6
60°	5659.2	5747.8	6286.9	7481.4	9604.7	12826.2	18052.5	20897.6	23179.2	23026.4	17422.6
62.5°	3673.2	3825.9	4330.7	5450.0	7561.1	10958.6	17282.0	21554.1	25047.9	24993.6	18864.0
65°	2111.1	2226.3	2577.2	3440.7	5216.4	8613.9	15449.8	21301.7	26198.1	26167.1	19403.1
66°	1724.8	1796.7	2065.7	2689.0	4304.2	7564.4	14384.9	20769.2	26312.1	26313.2	19341.1
67.5°	1379.4	1411.5	1532.1	1925.1	3176.1	5995.7	12481.9	19594.6	26170.4	26209.2	18941.5
70°	1141.4	1158.0	1195.6	1290.8	1733.6	3615.6	8859.6	16542.5	24747.9	24777.8	17381.6
72.5°	1024.0	1034.0	1048.4	1061.7	1223.3	2020.3	5411.2	13233.6	21698.0	21736.7	15004.8
75°	927.7	933.2	931.0	932.1	1026.2	1287.5	2796.4	9880.3	17544.4	17466.9	11494.4
77.5°	814.8	820.3	809.2	811.5	907.8	989.7	1391.5	6916.8	11839.8	11292.9	6476.2
80°	688.6	693.0	688.6	696.3	790.4	747.3	809.2	3891.2	5235.2	4951.8	2302.6
82.5°	520.3	539.1	552.4	583.4	650.9	531.4	541.3	1515.5	1594.1	1517.8	706.3
85°	228.1	277.9	416.2	446.1	489.3	318.8	355.4	617.7	648.7	628.8	256.8
87.5°	59.8	65.3	205.9	259.0	271.2	143.9	184.9	281.2	296.7	281.2	85.2
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°	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9	2977.9
2.5°	3011.1	2956.9	2859.5	2773.1	2707.8	2663.5	2619.3	2597.1	2583.8	2570.5	2572.8
5°	3107.5	2997.9	2830.7	2712.2	2645.8	2603.8	2581.6	2572.8	2567.2	2553.9	2553.9
7.5°	3252.5	3097.5	2867.2	2745.5	2693.4	2661.3	2648.0	2643.6	2637.0	2621.5	2623.7
10°	3435.1	3218.2	2943.6	2825.2	2777.6	2742.1	2723.3	2716.7	2704.5	2686.8	2689.0
12.5°	3649.9	3367.6	3044.4	2920.4	2862.8	2815.2	2784.2	2765.4	2744.4	2721.1	2722.2
15°	3884.6	3530.4	3152.8	3005.6	2927.0	2860.6	2810.8	2778.7	2745.5	2716.7	2715.6
17.5°	4122.6	3687.5	3235.9	3052.1	2945.8	2858.4	2790.8	2741.0	2700.1	2664.6	2661.3
20°	4379.4	3829.3	3282.4	3047.7	2910.4	2806.3	2716.7	2654.7	2609.3	2573.9	2568.3
22.5°	4640.7	3962.1	3290.1	3002.3	2831.8	2704.5	2610.4	2541.8	2495.3	2458.7	2445.5
25°	4879.8	4065.1	3258.0	2914.8	2722.2	2584.9	2493.1	2423.3	2385.7	2342.5	2329.2
27.5°	5097.9	4137.0	3193.8	2803.0	2599.3	2464.3	2377.9	2318.1	2277.2	2244.0	2232.9
30°	5293.9	4175.8	3088.6	2670.2	2473.1	2350.2	2277.2	2236.2	2200.8	2158.7	2151.0
32.5°	5479.8	4175.8	2953.6	2525.2	2348.0	2249.5	2206.3	2180.9	2141.0	2100.1	2089.0
35°	5665.8	4150.3	2794.2	2373.5	2232.9	2177.5	2175.3	2145.4	2084.6	2029.2	2014.8
37.5°	5861.8	4098.3	2614.8	2231.8	2138.8	2145.4	2164.3	2097.8	2011.5	1932.9	1911.9
40°	6083.2	4026.3	2428.8	2108.9	2060.2	2131.1	2134.4	2029.2	1860.9	1789.0	1770.2
42.5°	6343.3	3954.3	2256.1	2000.4	1998.2	2087.9	2077.9	1880.9	1780.1	1743.6	1733.6
45°	6685.4	3913.4	2092.3	1897.5	1949.5	2018.1	1981.6	1798.9	1756.9	1735.8	1727.0
47.5°	7224.5	3934.4	1941.7	1815.5	1900.8	1948.4	1802.3	1765.7	1735.8	1710.4	1701.5
50°	7899.8	3922.2	1820.0	1759.1	1845.4	1875.3	1721.4	1722.6	1707.1	1678.3	1665.0
52.5°	8408.0	3827.0	1741.4	1727.0	1796.7	1745.8	1670.5	1680.5	1672.7	1630.7	1616.3
55°	8898.4	3745.1	1701.5	1714.8	1761.3	1584.2	1610.7	1635.1	1627.3	1586.4	1579.7
57.5°	9508.4	3729.6	1677.2	1718.1	1731.4	1503.4	1553.2	1585.3	1579.7	1562.0	1558.7
60°	10255.6	3734.0	1655.0	1723.7	1698.2	1443.6	1498.9	1539.9	1543.2	1539.9	1537.7
62.5°	10666.3	3613.4	1599.7	1708.2	1639.5	1391.5	1442.5	1502.3	1503.4	1510.0	1508.9
65°	10317.6	3252.5	1496.7	1653.9	1541.0	1348.4	1393.8	1459.1	1442.5	1472.4	1472.4
66°	9978.9	3044.4	1445.8	1618.5	1498.9	1331.8	1378.3	1436.9	1415.9	1456.9	1456.9
67.5°	9287.0	2693.4	1353.9	1543.2	1439.2	1308.5	1360.6	1400.4	1371.6	1432.5	1428.1
70°	8022.7	2083.4	1169.0	1372.7	1340.6	1274.2	1336.2	1327.3	1285.3	1378.3	1360.6
72.5°	6764.0	1583.1	938.8	1149.1	1191.2	1231.0	1301.9	1234.3	1181.2	1246.5	1207.8
75°	5248.5	1190.1	741.7	893.4	1006.3	1163.5	1260.9	1127.0	1050.6	1043.9	1022.9
77.5°	2837.3	817.0	587.8	681.9	799.3	1079.4	1233.2	1011.8	896.7	870.1	853.5
80°	1123.6	531.4	427.3	517.0	559.1	957.6	1166.8	877.9	739.5	712.9	687.5
82.5°	463.8	314.4	275.7	346.5	364.2	819.2	1047.3	719.6	571.2	790.4	839.1
85°	199.3	172.7	163.8	179.3	205.9	574.6	833.6	549.1	616.6	550.2	437.3
87.5°	59.8	73.1	69.7	68.6	75.3	137.3	443.9	305.5	452.8	171.6	128.4
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)