

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: P317538

Luminaire Tested: **GAN-SA4D-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317538
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-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 32608 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

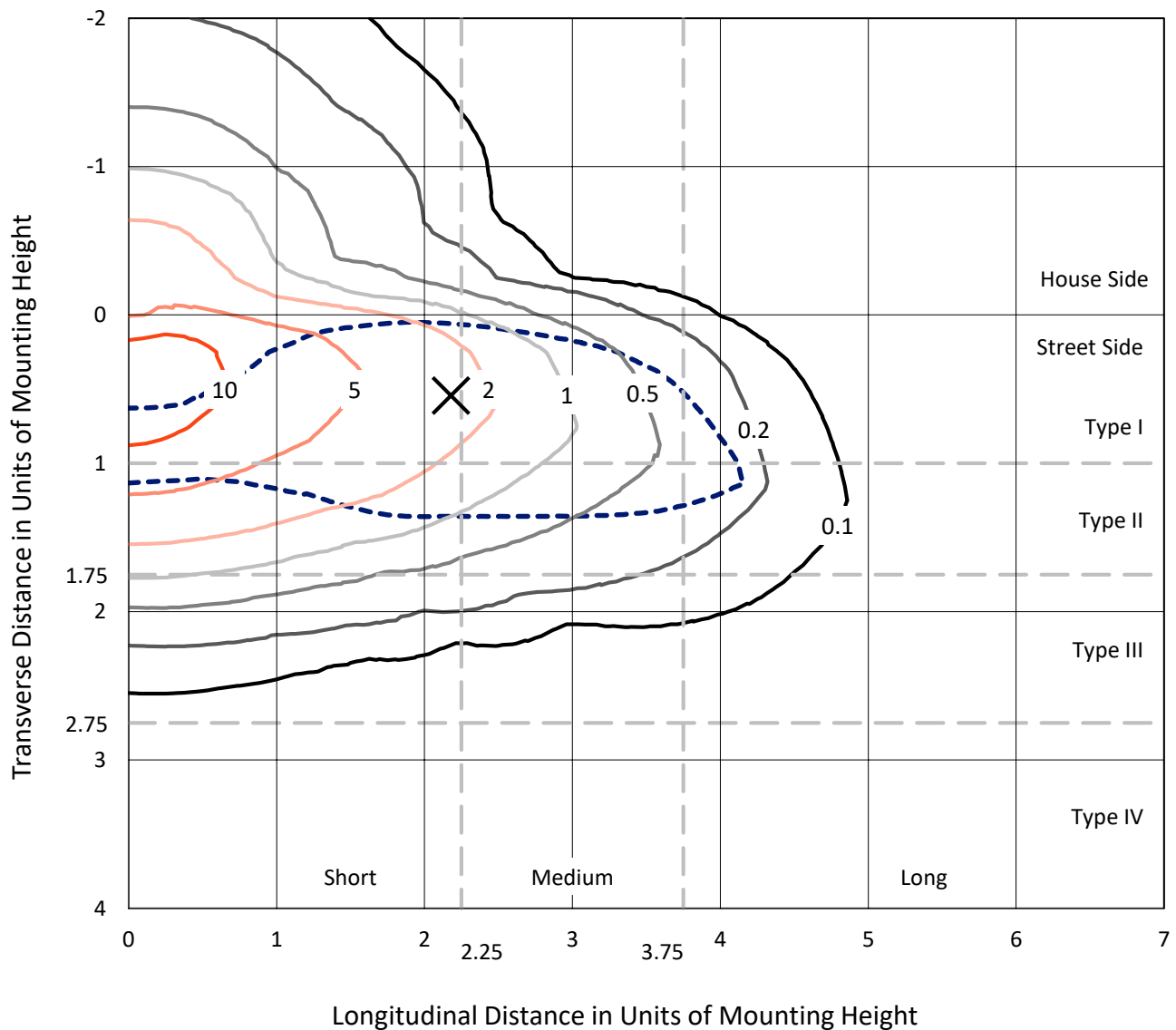


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Iso-Footcandle Lines of Horizontal Illumination

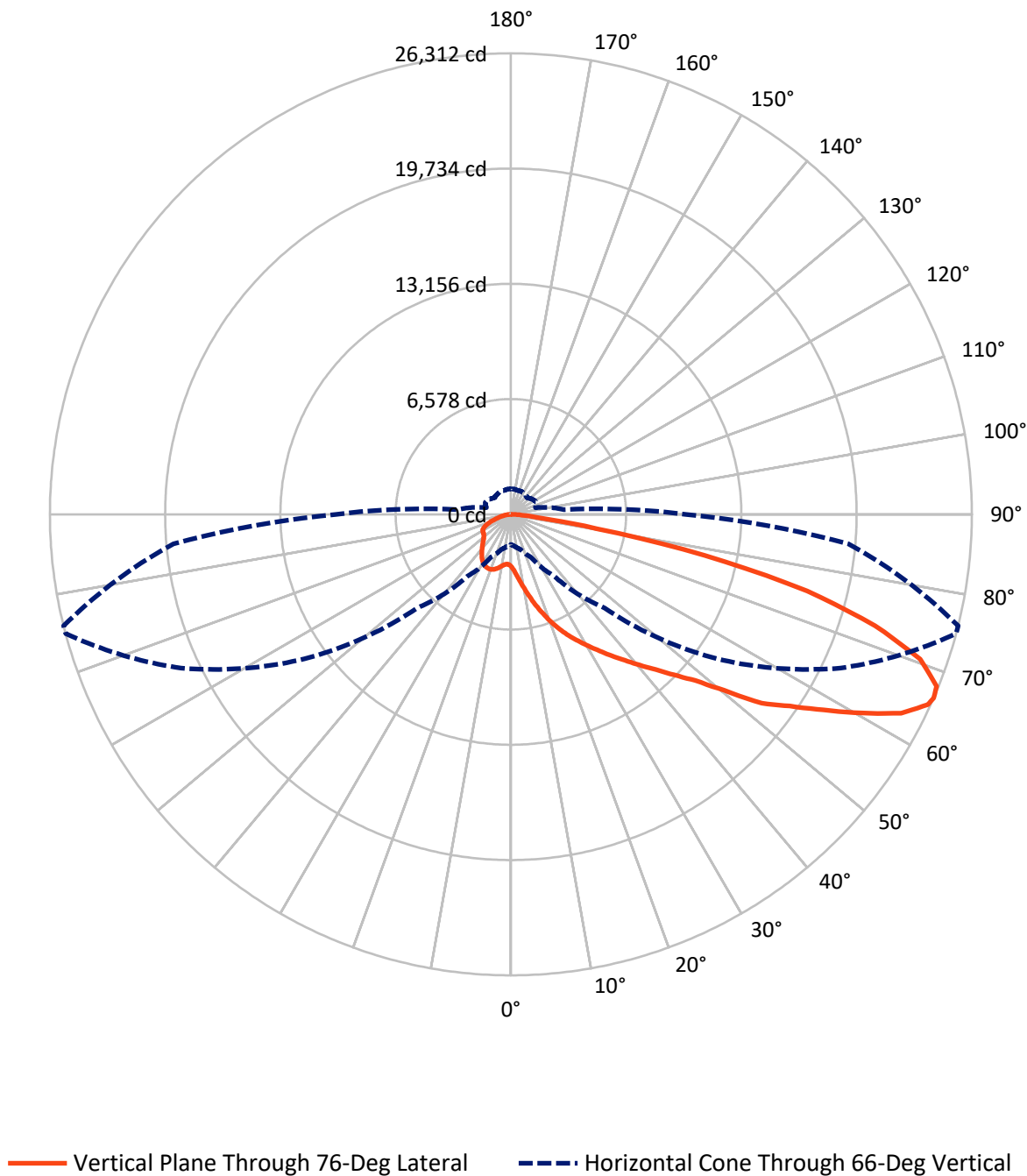
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5486.8	0.0	5486.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27121.2	0.0	27121.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	32608.0	0.0	32608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	1.1
10°-20°	1422.0	4.4
20°-30°	2763.3	8.5
30°-40°	4510.4	13.8
40°-50°	6162.3	18.9
50°-60°	7177.8	22.0
60°-70°	6435.0	19.7
70°-80°	3252.0	10.0
80°-90°	525.1	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°	32608.0	100.0
0°-180°	32608.0	100.0

Coefficient of Utilization



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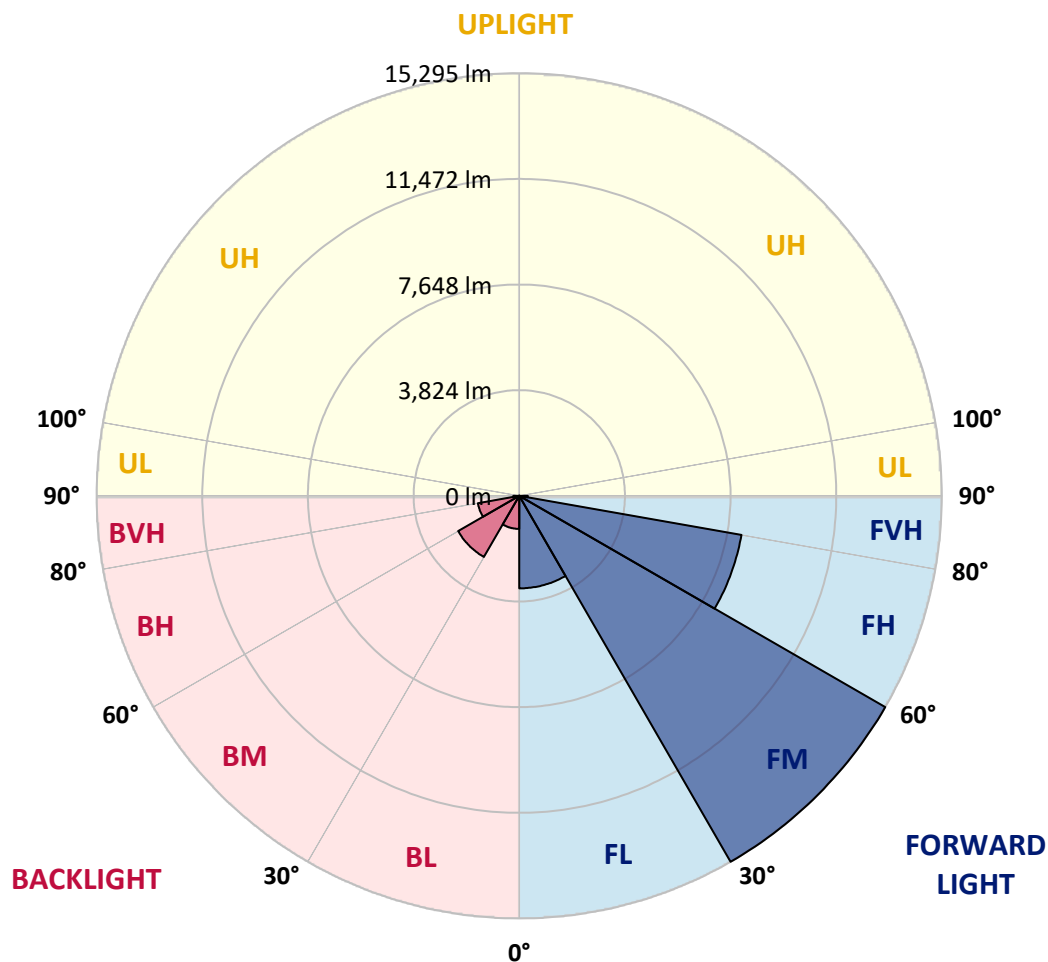
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3348.8	10.3			
FM	(30°-60°)	15295.4	46.9			
FH	(60°-80°)	8166.9	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°)	2555.0	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°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	3953.1	3893.3	3887.8	3800.4	3780.4	3613.3	3490.4	3362.0	3215.9	3187.1	3071.9
5°	5077.8	5072.3	4995.9	4853.1	4741.3	4455.7	4173.4	3874.5	3546.8	3493.7	3234.7
7.5°	6089.6	6080.8	6022.1	5868.2	5706.6	5355.7	4952.7	4494.4	3963.1	3884.5	3455.0
10°	6857.9	6854.6	6834.7	6721.7	6584.5	6247.9	5802.9	5177.5	4446.8	4339.5	3730.6
12.5°	7451.3	7457.9	7471.2	7431.3	7366.0	7079.3	6623.2	5901.4	4962.7	4856.4	4037.3
15°	7853.1	7873.0	7941.7	7998.1	8032.4	7856.4	7414.7	6642.0	5540.6	5413.3	4377.1
17.5°	8055.7	8077.8	8196.3	8366.8	8523.9	8506.2	8155.3	7348.3	6095.2	5972.3	4742.4
20°	8230.6	8247.2	8380.0	8584.8	8862.7	8985.6	8788.5	8028.0	6702.9	6556.8	5129.9
22.5°	8737.6	8758.6	8798.5	8914.7	9160.5	9386.3	9291.1	8671.2	7259.7	7123.6	5497.4
25°	9716.2	9741.7	9655.3	9556.8	9603.3	9760.5	9778.2	9257.9	7824.3	7670.4	5892.6
27.5°	10895.2	10931.7	10784.5	10530.9	10309.5	10248.7	10227.6	9738.3	8363.4	8185.2	6283.4
30°	12049.8	12112.9	11921.3	11592.6	11186.3	10900.7	10689.2	10208.8	8894.8	8724.3	6652.0
32.5°	13177.8	13152.3	12874.5	12553.4	12077.4	11719.9	11208.4	10713.6	9492.6	9296.6	7018.4
35°	13950.5	13959.3	13701.4	13320.6	12866.7	12592.2	11903.6	11258.2	10102.5	9922.1	7434.7
37.5°	14608.0	14567.1	14274.8	13919.5	13528.7	13411.4	12717.3	11858.2	10763.4	10566.4	7877.5
40°	14827.2	14779.6	14588.1	14332.4	14019.1	14009.2	13615.1	12537.9	11510.6	11315.8	8376.7
42.5°	14694.4	14633.5	14554.9	14485.2	14388.9	14433.1	14458.6	13335.0	12332.0	12114.0	8954.6
45°	14204.0	14112.1	14167.5	14319.1	14528.3	14778.5	15220.2	14217.3	13252.0	13069.3	9633.2
47.5°	13450.1	13367.1	13539.8	13864.1	14433.1	15066.4	15940.9	15191.4	14350.1	14168.6	10599.6
50°	12389.6	12414.0	12660.8	13250.9	14111.0	15199.2	16828.7	16481.1	15946.4	15777.0	11918.0
52.5°	10649.4	10653.8	11349.0	12317.7	13539.8	15130.6	17321.3	18129.4	18126.1	17921.3	13173.4
55°	9033.2	9131.7	9681.9	10969.3	12614.3	14856.0	17665.6	18930.9	19557.5	19317.3	14343.5
57.5°	7454.6	7512.1	8033.5	9326.5	11293.7	14124.3	18018.7	19892.9	21206.9	21055.3	15798.1
60°	5659.0	5747.6	6286.7	7481.1	9604.4	12825.8	18051.9	20897.0	23178.5	23025.7	17422.1
62.5°	3673.0	3825.8	4330.6	5449.8	7560.9	10958.3	17281.5	21553.4	25047.1	24992.9	18863.4
65°	2111.1	2226.2	2577.1	3440.6	5216.2	8613.6	15449.4	21301.0	26197.3	26166.3	19402.5
66°	1724.7	1796.7	2065.7	2688.9	4304.0	7564.2	14384.4	20768.5	26311.3	26312.4	19340.5
67.5°	1379.3	1411.4	1532.1	1925.1	3176.0	5995.5	12481.5	19594.0	26169.6	26208.4	18940.9
70°	1141.3	1157.9	1195.6	1290.8	1733.6	3615.5	8859.4	16542.0	24747.1	24777.0	17381.1
72.5°	1024.0	1033.9	1048.3	1061.6	1223.2	2020.3	5411.0	13233.1	21697.3	21736.1	15004.4
75°	927.7	933.2	931.0	932.1	1026.2	1287.4	2796.3	9880.0	17543.8	17466.3	11494.0
77.5°	814.8	820.3	809.2	811.4	907.7	989.7	1391.5	6916.6	11839.4	11292.6	6476.0
80°	688.6	693.0	688.6	696.3	790.4	747.2	809.2	3891.1	5235.0	4951.6	2302.6
82.5°	520.3	539.1	552.4	583.4	650.9	531.4	541.3	1515.5	1594.1	1517.7	706.3
85°	228.0	277.9	416.2	446.1	489.3	318.8	355.3	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°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	3011.1	2956.8	2859.4	2773.0	2707.7	2663.5	2619.2	2597.0	2583.8	2570.5	2572.7
5°	3107.4	2997.8	2830.6	2712.2	2645.7	2603.7	2581.5	2572.7	2567.1	2553.9	2553.9
7.5°	3252.4	3097.4	2867.1	2745.4	2693.3	2661.2	2648.0	2643.5	2636.9	2621.4	2623.6
10°	3435.0	3218.1	2943.5	2825.1	2777.5	2742.1	2723.2	2716.6	2704.4	2686.7	2688.9
12.5°	3649.8	3367.5	3044.3	2920.3	2862.7	2815.1	2784.1	2765.3	2744.3	2721.0	2722.1
15°	3884.5	3530.2	3152.8	3005.5	2926.9	2860.5	2810.7	2778.6	2745.4	2716.6	2715.5
17.5°	4122.5	3687.4	3235.8	3052.0	2945.7	2858.3	2790.8	2740.9	2700.0	2664.6	2661.2
20°	4379.3	3829.1	3282.3	3047.6	2910.3	2806.3	2716.6	2654.6	2609.2	2573.8	2568.3
22.5°	4640.6	3962.0	3290.0	3002.2	2831.7	2704.4	2610.3	2541.7	2495.2	2458.7	2445.4
25°	4879.7	4064.9	3257.9	2914.7	2722.1	2584.9	2493.0	2423.2	2385.6	2342.4	2329.1
27.5°	5097.8	4136.9	3193.7	2802.9	2599.2	2464.2	2377.8	2318.1	2277.1	2243.9	2232.8
30°	5293.7	4175.6	3088.5	2670.1	2473.1	2350.2	2277.1	2236.2	2200.7	2158.7	2150.9
32.5°	5479.7	4175.6	2953.5	2525.1	2348.0	2249.4	2206.3	2180.8	2140.9	2100.0	2088.9
35°	5665.7	4150.2	2794.1	2373.4	2232.8	2177.5	2175.3	2145.4	2084.5	2029.1	2014.8
37.5°	5861.6	4098.1	2614.7	2231.7	2138.7	2145.4	2164.2	2097.8	2011.4	1932.8	1911.8
40°	6083.0	4026.2	2428.8	2108.8	2060.1	2131.0	2134.3	2029.1	1860.9	1788.9	1770.1
42.5°	6343.1	3954.2	2256.1	2000.4	1998.1	2087.8	2077.9	1880.8	1780.1	1743.5	1733.6
45°	6685.2	3913.3	2092.2	1897.4	1949.4	2018.1	1981.5	1798.9	1756.8	1735.8	1726.9
47.5°	7224.3	3934.3	1941.7	1815.5	1900.7	1948.3	1802.2	1765.7	1735.8	1710.3	1701.5
50°	7899.6	3922.1	1819.9	1759.0	1845.4	1875.3	1721.4	1722.5	1707.0	1678.2	1664.9
52.5°	8407.7	3826.9	1741.3	1726.9	1796.7	1745.7	1670.5	1680.4	1672.7	1630.6	1616.2
55°	8898.1	3745.0	1701.5	1714.8	1761.2	1584.1	1610.7	1635.0	1627.3	1586.3	1579.7
57.5°	9508.1	3729.5	1677.1	1718.1	1731.4	1503.3	1553.1	1585.2	1579.7	1562.0	1558.7
60°	10255.3	3733.9	1655.0	1723.6	1698.1	1443.5	1498.9	1539.8	1543.2	1539.8	1537.6
62.5°	10666.0	3613.3	1599.6	1708.1	1639.5	1391.5	1442.4	1502.2	1503.3	1510.0	1508.8
65°	10317.3	3252.4	1496.7	1653.9	1541.0	1348.3	1393.7	1459.0	1442.4	1472.3	1472.3
66°	9978.6	3044.3	1445.7	1618.4	1498.9	1331.7	1378.2	1436.9	1415.9	1456.8	1456.8
67.5°	9286.7	2693.3	1353.9	1543.2	1439.1	1308.5	1360.5	1400.4	1371.6	1432.5	1428.0
70°	8022.5	2083.4	1169.0	1372.7	1340.6	1274.2	1336.2	1327.3	1285.2	1378.2	1360.5
72.5°	6763.8	1583.0	938.7	1149.1	1191.1	1231.0	1301.8	1234.3	1181.2	1246.5	1207.7
75°	5248.3	1190.0	741.7	893.4	1006.3	1163.5	1260.9	1126.9	1050.5	1043.9	1022.9
77.5°	2837.3	817.0	587.8	681.9	799.3	1079.3	1233.2	1011.8	896.7	870.1	853.5
80°	1123.6	531.4	427.3	517.0	559.0	957.6	1166.8	877.9	739.5	712.9	687.5
82.5°	463.8	314.4	275.6	346.5	364.2	819.2	1047.2	719.6	571.2	790.4	839.1
85°	199.3	172.7	163.8	179.3	205.9	574.5	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)