

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: P268816

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-AFL-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38321 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 374  
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: 28.75 FT

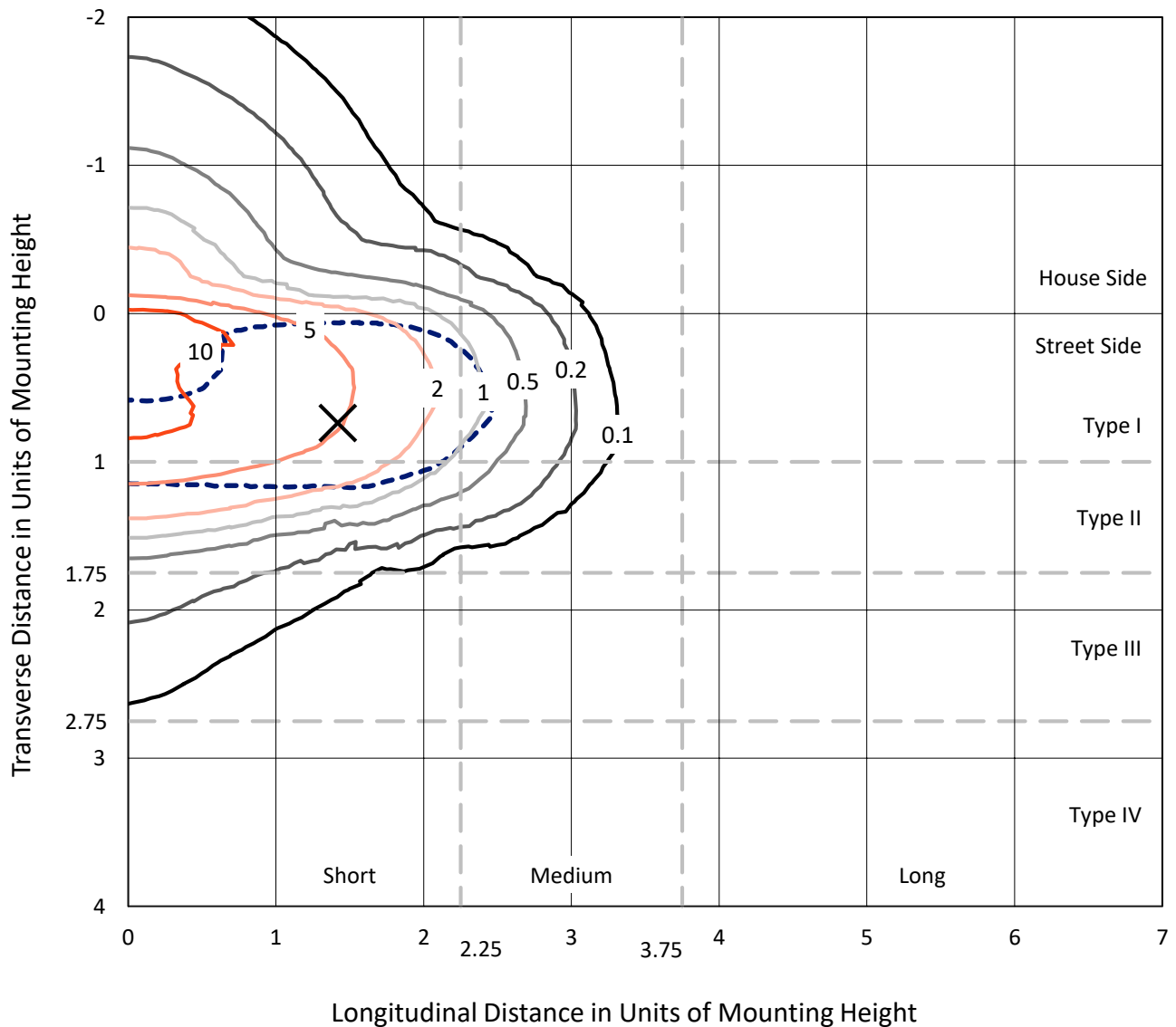


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### Iso-Footcandle Lines of Horizontal Illumination

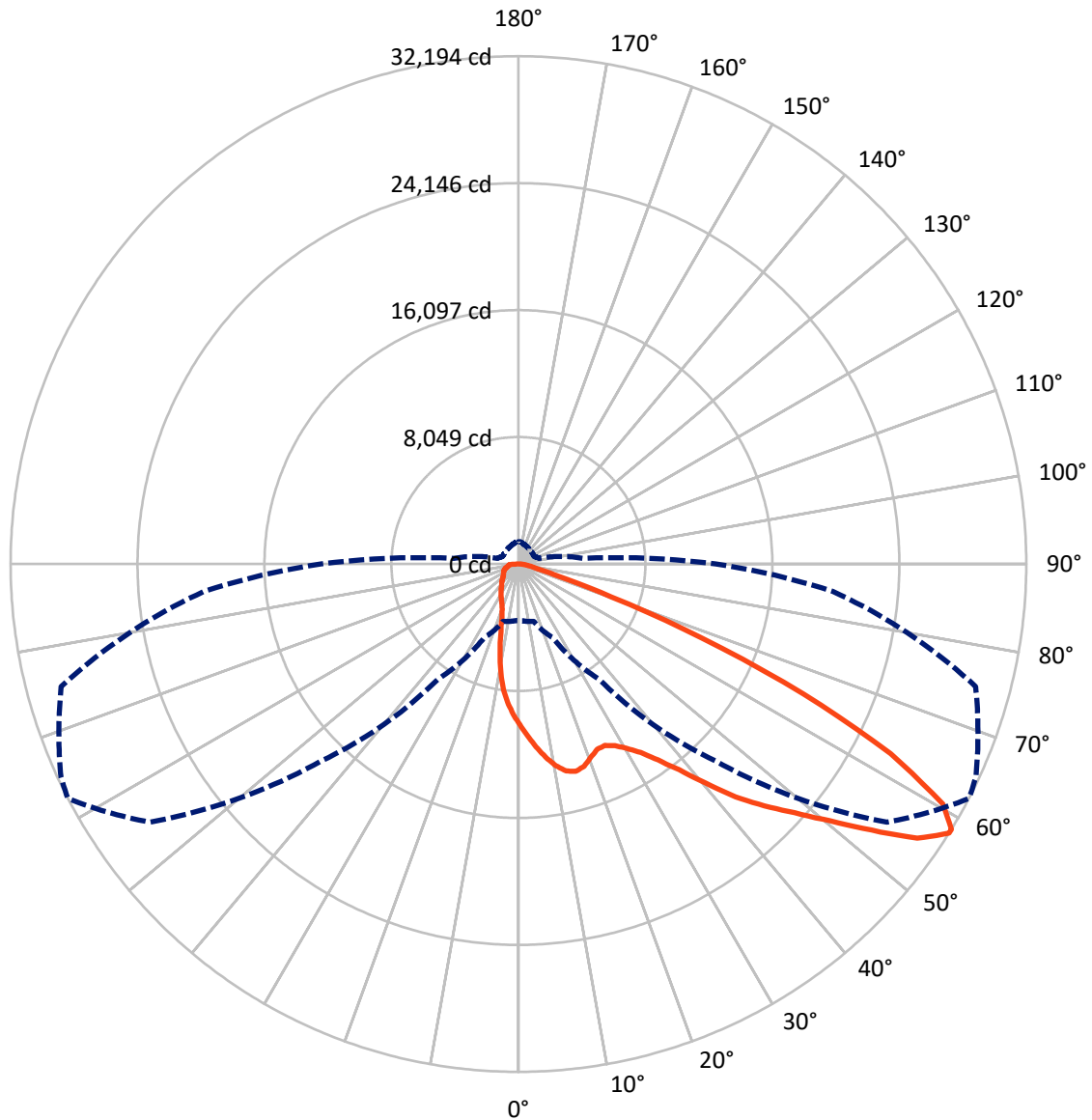
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5844.1	0.0	5844.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	32476.9	0.0	32476.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	38321.0	0.0	38321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.4	2.4
10°-20°	2327.1	6.1
20°-30°	3761.8	9.8
30°-40°	5971.8	15.6
40°-50°	8738.0	22.8
50°-60°	9139.2	23.8
60°-70°	5399.5	14.1
70°-80°	1521.0	4.0
80°-90°	552.2	1.4
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°	38321.0	100.0
0°-180°	38321.0	100.0

**Coefficient of Utilization**



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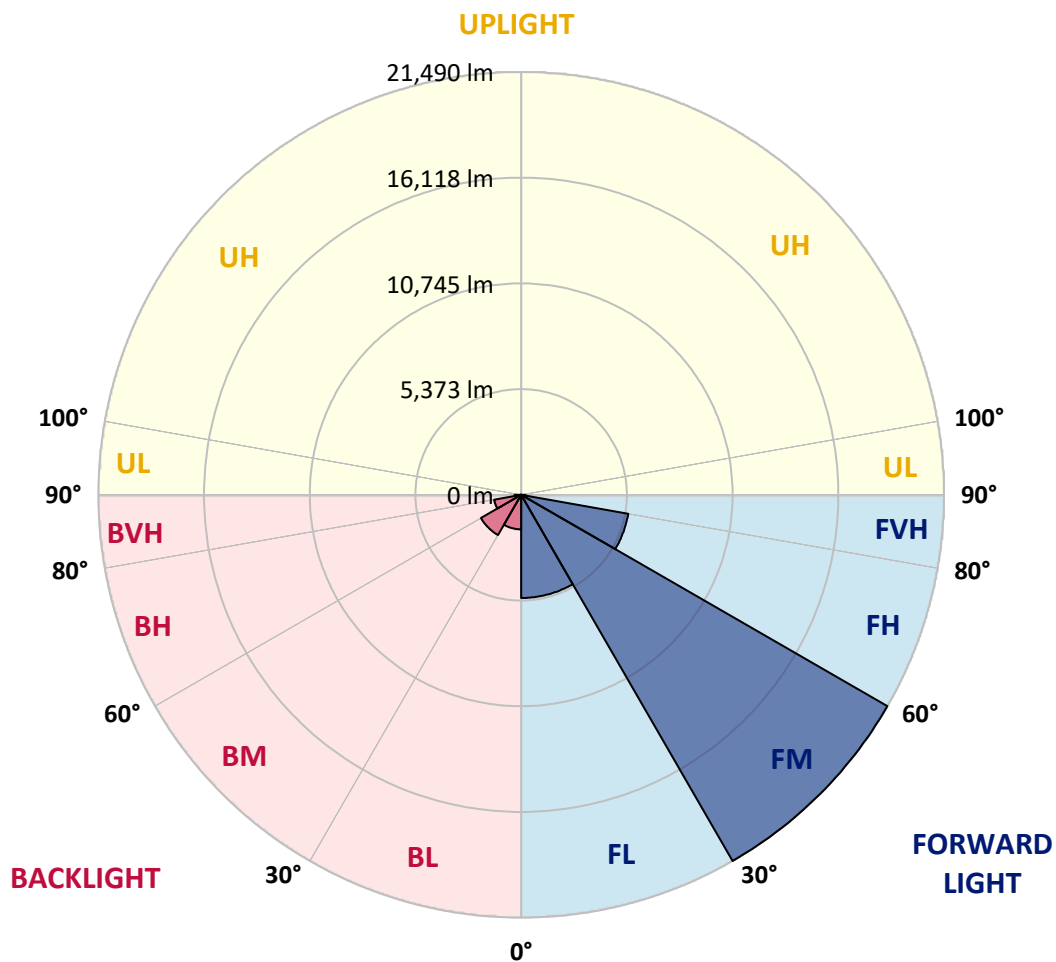
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5242.8	13.7			
FM	(30°-60°)	21490.2	56.1			
FH	(60°-80°)	5526.0	14.4			G3/7500
FVH	(80°-90°)	217.9	0.6			G2/225
BL	(0°-30°)	1756.5	4.6	B3/2500		
BM	(30°-60°)	2358.8	6.2	B2/2500		
BH	(60°-80°)	1394.5	3.6	B3/2500		G3/2500
BVH	(80°-90°)	334.4	0.9			G3/500
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°	62.5°	65°	75°	85°
0°	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1
2.5°	11631.9	11538.0	11478.5	11426.1	11357.5	11211.3	11014.7	10890.2	10827.0	10612.2	10357.8
5°	12772.2	12689.3	12628.0	12557.4	12434.8	12205.6	11888.0	11635.4	11510.9	11081.4	10572.5
7.5°	12505.1	12539.5	12645.9	12831.7	12990.6	12959.8	12676.6	12355.4	12191.2	11594.0	10821.6
10°	10895.5	10955.1	11139.3	11574.0	12277.9	12999.6	13219.7	12997.8	12831.7	12101.0	11077.8
12.5°	10572.5	10570.7	10585.2	10700.7	11119.3	12135.3	13237.9	13461.6	13362.3	12584.5	11339.5
15°	10704.4	10707.8	10697.0	10745.7	10875.7	11278.1	12685.7	13640.3	13710.7	13071.7	11610.1
17.5°	11050.8	11041.7	11000.3	11000.3	11047.1	11204.1	12036.0	13474.1	13799.0	13503.1	11848.4
20°	11631.9	11590.3	11480.2	11379.2	11328.6	11413.4	11769.0	13091.7	13645.7	13880.3	12045.1
22.5°	12335.5	12303.0	12124.5	11907.9	11732.9	11731.1	11906.0	12757.8	13380.3	14235.7	12211.0
25°	13245.0	13192.7	12927.5	12580.9	12274.3	12156.9	12205.6	12741.6	13235.9	14621.8	12359.1
27.5°	14313.4	14217.7	13903.6	13403.8	12952.8	12716.2	12645.9	13035.8	13367.8	15100.1	12564.8
30°	15608.9	15498.8	15096.5	14445.0	13808.0	13420.0	13270.3	13557.2	13804.4	15682.9	12895.0
32.5°	17083.2	16924.3	16458.8	15740.6	14903.4	14311.4	14067.8	14246.5	14443.2	16384.8	13308.2
35°	19120.5	18931.1	18258.0	17267.3	16321.8	15507.9	15118.0	15248.0	15439.3	17431.5	13905.5
37.5°	20509.9	20425.1	19977.6	19046.6	18017.9	17081.5	16478.7	16554.4	16662.8	18739.7	14670.6
40°	20497.3	20531.7	20540.6	20549.6	19849.5	18952.7	18304.9	18225.4	18203.9	20176.1	15540.4
42.5°	19470.6	19611.3	20066.0	20988.1	21413.9	21002.6	20409.0	20179.7	20066.0	21868.8	16462.5
45°	17898.8	17974.6	18826.4	20627.2	22215.3	23032.6	22583.3	21861.5	21655.8	23424.3	17227.5
47.5°	17088.5	17171.6	17707.6	19670.8	22206.2	24672.9	24932.7	23557.7	23189.7	24777.6	17887.9
50°	15159.5	15332.8	16007.7	18007.2	21396.0	25427.2	27388.8	25578.8	24817.2	26094.9	18550.3
52.5°	11617.4	11884.4	12640.5	15271.5	19340.6	25053.6	29353.7	28029.4	26953.9	27459.1	19118.6
55°	7328.1	7526.5	8161.7	10785.5	15471.8	23110.2	30099.1	30680.2	29723.7	28751.2	19611.3
57.5°	3984.3	4072.7	4311.0	5954.9	10063.7	18813.7	29012.7	32188.6	31791.6	29848.3	19983.1
58°	3565.7	3625.2	3773.2	5160.9	8925.1	17638.9	28531.0	32194.0	31995.7	30008.8	20011.9
60°	2645.4	2614.7	2482.9	2945.0	4967.7	12185.8	25618.6	30905.6	31488.5	30205.5	19871.1
62.5°	2324.2	2250.3	1981.3	1950.7	2416.3	5613.8	19602.3	26473.8	27850.6	29083.2	19015.9
65°	2183.4	2104.0	1757.5	1645.8	1743.2	2374.7	11547.1	19854.9	21581.8	25679.8	16828.8
67.5°	2078.8	1975.9	1615.1	1461.6	1468.9	1569.9	4628.5	12505.1	14448.6	19497.6	13089.8
70°	1977.7	1865.9	1494.2	1317.3	1275.9	1241.5	1840.5	6259.7	8022.9	12315.8	8345.9
72.5°	1869.5	1759.4	1387.6	1203.5	1122.4	1008.6	1201.8	2560.6	3576.5	5826.8	3785.8
75°	1712.4	1613.3	1281.3	1102.6	987.1	835.5	907.6	1337.1	1604.3	2320.6	1824.4
77.5°	1519.5	1438.1	1162.0	1019.5	875.2	678.5	698.3	927.5	1028.6	1328.1	1084.6
80°	1091.7	1120.5	1033.9	916.7	779.5	550.4	535.8	676.8	730.9	853.5	705.6
82.5°	767.0	783.1	855.4	748.8	644.3	433.2	395.2	476.5	508.9	561.3	380.7
85°	528.7	510.6	586.5	521.5	465.5	288.7	270.7	323.0	342.9	348.3	196.6
87.5°	317.6	317.6	339.2	279.7	250.8	149.7	146.2	184.1	196.6	187.7	108.2
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°	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1	10179.1
2.5°	10206.3	10078.2	9805.7	9587.3	9311.2	9024.4	8863.7	8692.3	8575.0	8490.2	8625.5
5°	10283.8	10022.2	9459.2	8925.1	8335.0	7721.4	7255.9	6822.7	6521.4	6333.8	6510.6
7.5°	10406.5	10004.2	9107.2	8194.2	7135.0	6113.7	5200.6	4628.5	4294.6	4130.4	4233.4
10°	10547.3	9975.3	8694.1	7203.6	5687.8	4401.2	3719.1	3488.1	3412.3	3381.6	3396.0
12.5°	10664.6	9914.0	8187.1	6005.3	4271.3	3475.5	3278.8	3273.3	3289.7	3293.1	3298.7
15°	10747.6	9823.7	7434.6	4756.6	3416.0	3166.9	3156.0	3188.5	3219.3	3231.8	3239.1
17.5°	10803.6	9637.8	6584.7	3760.6	3060.4	3017.1	3042.4	3083.9	3116.4	3125.5	3132.6
20°	10798.2	9365.4	5572.2	3136.3	2867.4	2867.4	2910.7	2943.1	2945.0	2934.1	2939.6
22.5°	10742.2	8991.9	4590.7	2804.1	2696.0	2726.5	2770.0	2739.2	2612.9	2529.8	2535.3
25°	10648.4	8546.1	3749.7	2593.0	2537.2	2591.3	2578.7	2347.6	2167.3	2086.0	2086.0
27.5°	10565.3	8019.2	3103.7	2409.1	2378.4	2445.0	2221.4	2012.1	1936.2	1898.4	1885.7
30°	10505.8	7450.8	2672.5	2232.2	2228.5	2179.8	1927.3	1869.5	1856.8	1826.2	1815.4
32.5°	10520.2	6875.2	2396.4	2077.1	2089.5	1865.9	1786.5	1799.0	1788.3	1755.7	1741.4
35°	10639.3	6328.4	2215.8	1936.2	1898.4	1685.4	1703.5	1726.9	1723.3	1678.2	1663.8
37.5°	10852.2	5810.4	2096.9	1819.0	1656.6	1595.2	1624.0	1660.2	1651.2	1620.5	1609.7
40°	11076.0	5323.3	1999.4	1726.9	1514.0	1533.9	1559.1	1579.0	1587.9	1596.9	1589.8
42.5°	11294.4	4814.3	1880.3	1633.1	1454.4	1476.1	1487.0	1506.7	1555.4	1589.8	1587.9
45°	11424.3	4336.2	1757.5	1499.5	1407.6	1420.1	1412.9	1452.6	1512.1	1568.1	1569.9
47.5°	11568.6	3964.5	1660.2	1376.8	1362.4	1371.4	1349.8	1389.5	1443.5	1512.1	1519.5
50°	11743.7	3742.5	1582.5	1279.4	1301.0	1301.0	1295.6	1331.6	1407.6	1487.0	1501.3
52.5°	11942.2	3699.2	1517.5	1208.9	1239.8	1237.9	1243.3	1297.4	1380.4	1457.9	1470.6
55°	12184.0	3816.4	1447.2	1156.7	1180.2	1187.4	1205.3	1266.8	1337.1	1425.6	1431.0
57.5°	12465.5	4054.7	1391.2	1115.2	1126.0	1149.6	1178.3	1234.4	1310.1	1407.6	1412.9
58°	12512.4	4105.3	1382.2	1111.6	1115.2	1142.3	1174.8	1228.9	1304.7	1411.1	1416.5
60°	12514.2	4273.1	1362.4	1095.4	1073.7	1118.7	1155.0	1208.9	1295.6	1423.8	1436.4
62.5°	12070.3	4271.3	1347.9	1071.9	1030.4	1086.3	1127.8	1191.0	1286.6	1454.4	1479.7
65°	10628.4	3881.4	1279.4	1035.7	996.1	1057.5	1104.3	1178.3	1311.9	1587.9	1604.3
67.5°	8313.4	3181.3	1151.3	985.3	950.9	1028.6	1090.0	1176.5	1339.0	1618.7	1629.4
70°	5496.5	2380.1	1010.6	927.5	904.1	994.2	1097.1	1237.9	1308.2	1553.7	1524.9
72.5°	2852.8	1670.9	896.9	855.4	849.9	963.6	1201.8	1230.7	1277.6	1461.6	1425.6
75°	1497.7	1160.3	797.5	776.0	784.9	956.3	1418.3	1198.2	1237.9	1398.5	1467.0
77.5°	916.7	936.6	712.7	703.7	721.8	934.7	1416.5	1156.7	1180.2	1286.6	1362.4
80°	613.5	759.6	647.8	649.7	662.2	855.4	1272.2	1091.7	1109.8	1216.2	1293.7
82.5°	388.0	449.3	588.3	618.9	602.8	705.6	1080.9	994.2	1019.5	1391.2	1470.6
85°	196.6	281.4	510.6	595.4	543.1	494.4	876.9	871.5	884.2	1003.2	1048.4
87.5°	90.2	155.1	398.8	519.7	409.6	308.6	637.0	646.1	696.5	712.7	712.7
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)