

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: P300339

Luminaire Tested: **GAA-AF-08-LED-U-AFL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300339  
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: GAA-AF-08-LED-U-AFL-8030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39802.9 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 445  
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

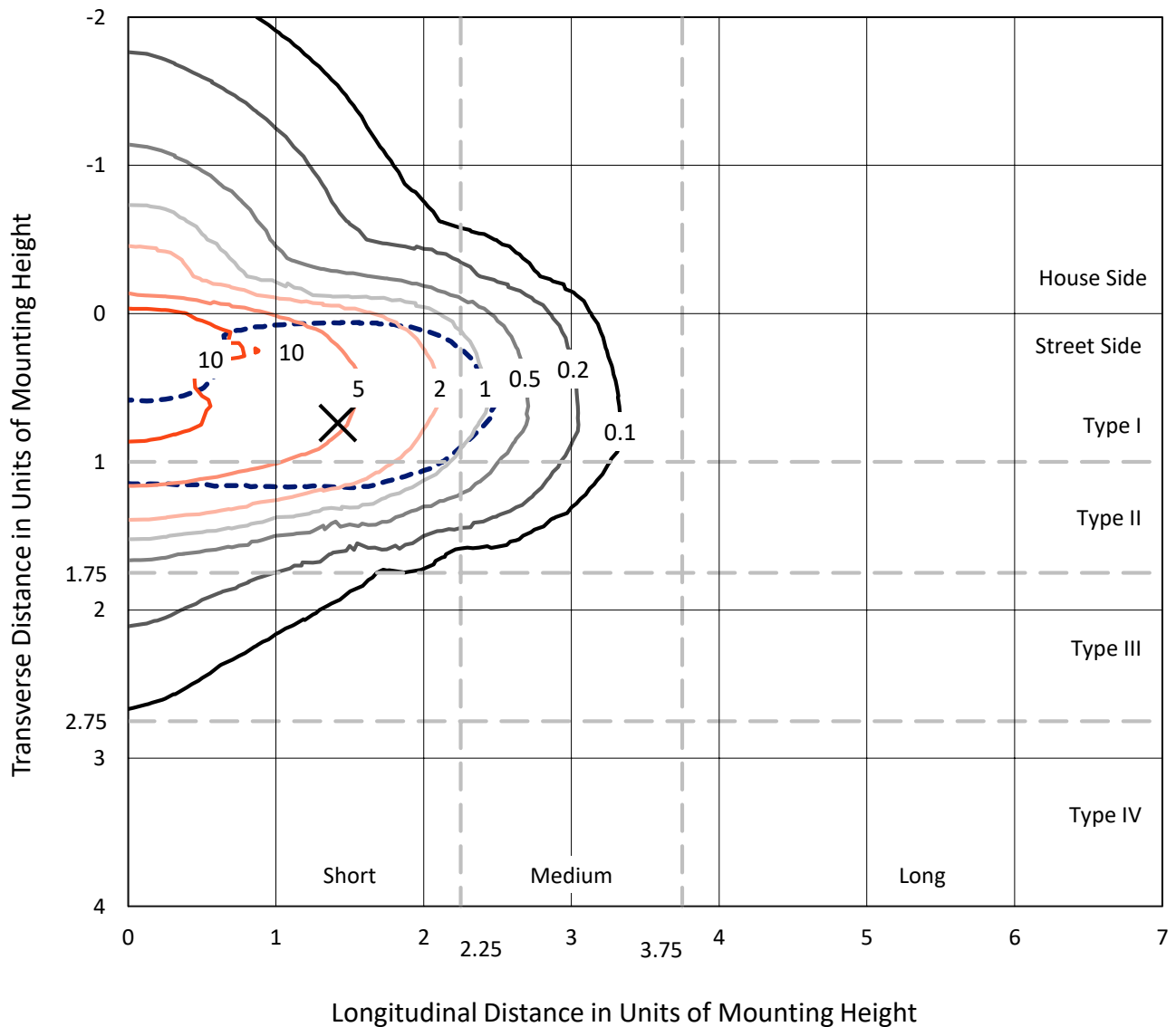


REPORT NUMBER: P300339

CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

### Iso-Footcandle Lines of Horizontal Illumination

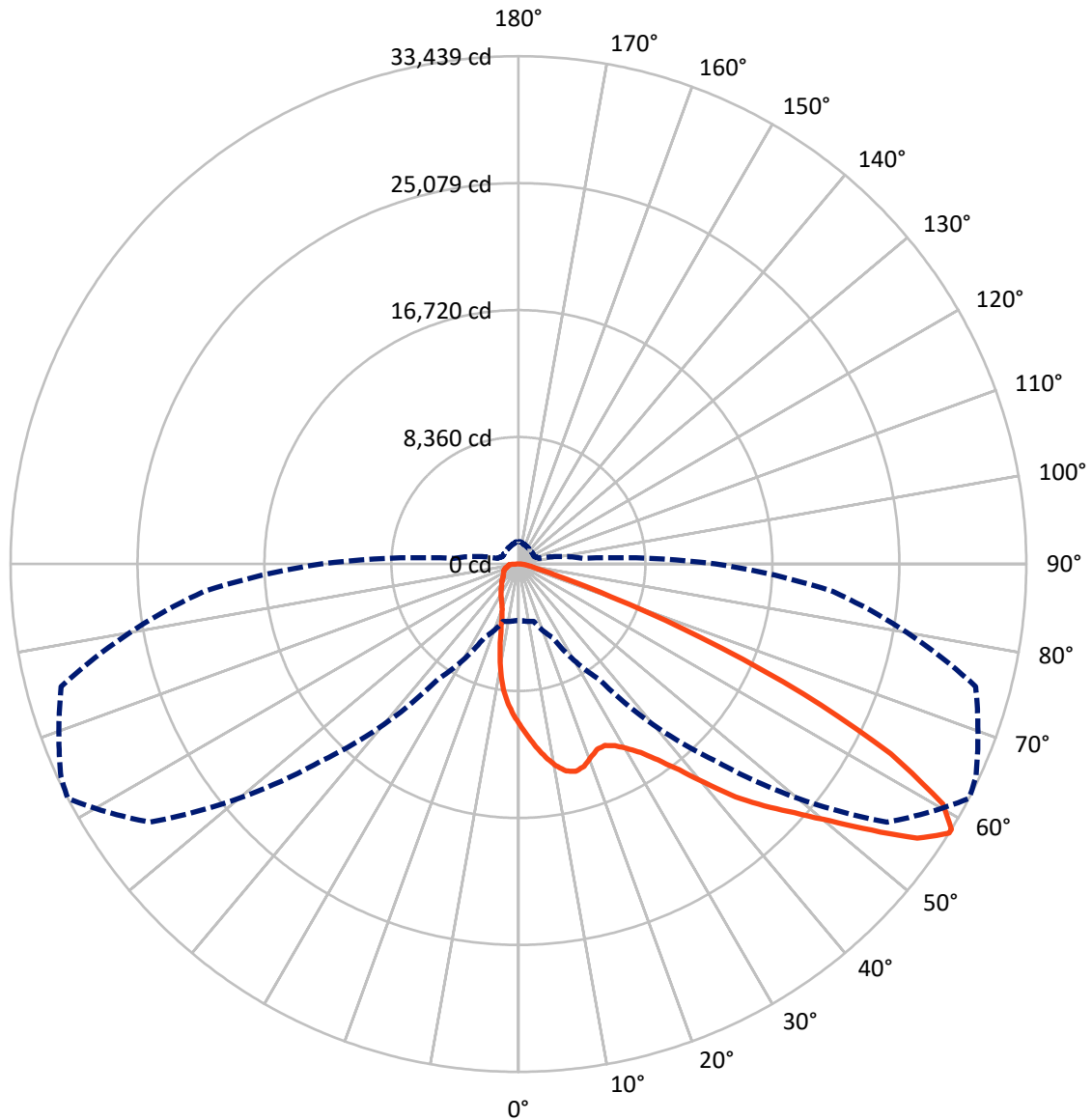
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300339  
CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300339

CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6070.1	0.0	6070.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	33732.8	0.0	33732.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	39802.9	0.0	39802.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	945.6	2.4
10°-20°	2417.1	6.1
20°-30°	3907.3	9.8
30°-40°	6202.7	15.6
40°-50°	9075.9	22.8
50°-60°	9492.6	23.8
60°-70°	5608.3	14.1
70°-80°	1579.9	4.0
80°-90°	573.6	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°	39802.9	100.0
0°-180°	39802.9	100.0



REPORT NUMBER: P300339

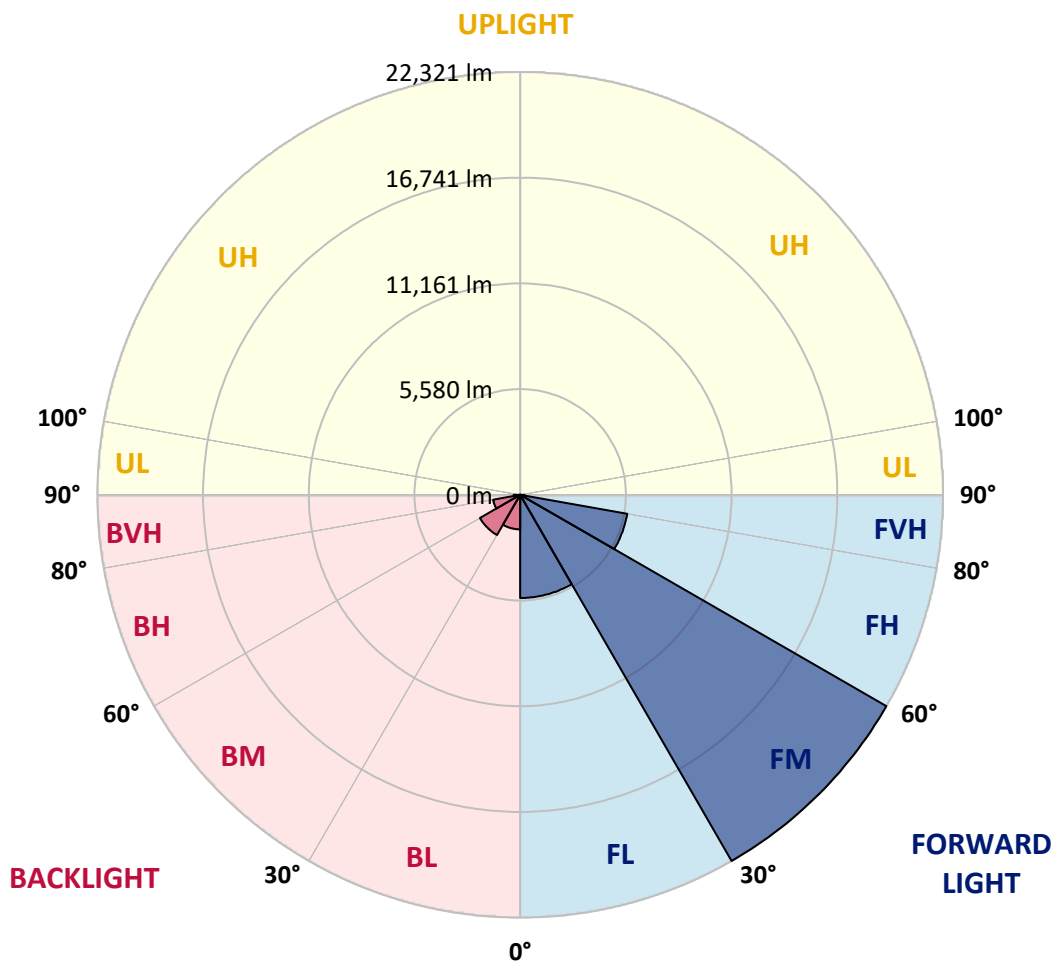
CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5445.5	13.7			
FM (30°-60°)	22321.2	56.1			
FH (60°-80°)	5739.7	14.4			G3/7500
FVH (80°-90°)	226.3	0.6			G3/500
BL (0°-30°)	1824.4	4.6	B3/2500		
BM (30°-60°)	2450.0	6.2	B2/2500		
BH (60°-80°)	1448.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	347.3	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





REPORT NUMBER: P300339

CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8
2.5°	12081.6	11984.2	11922.3	11867.9	11796.7	11644.9	11440.6	11311.3	11245.7	11022.6	10758.4
5°	13266.2	13179.9	13116.2	13043.1	12915.7	12677.6	12347.8	12085.4	11956.0	11510.0	10981.4
7.5°	12988.8	13024.4	13135.0	13328.0	13492.9	13461.1	13166.8	12833.2	12662.6	12042.3	11240.1
10°	11316.9	11378.8	11569.9	12021.6	12752.6	13502.3	13731.0	13500.4	13328.0	12568.9	11506.2
12.5°	10981.4	10979.5	10994.5	11114.5	11549.3	12604.5	13749.7	13982.1	13879.1	13071.2	11778.0
15°	11118.2	11122.0	11110.7	11161.3	11296.3	11714.3	13176.2	14167.7	14240.8	13577.3	12059.1
17.5°	11478.1	11468.7	11425.6	11425.6	11474.3	11637.4	12501.5	13995.3	14332.6	14025.2	12306.5
20°	12081.6	12038.5	11924.2	11819.2	11766.7	11854.8	12224.1	13597.9	14173.3	14417.0	12510.8
22.5°	12812.6	12778.8	12593.3	12368.4	12186.6	12184.7	12366.5	13251.2	13897.8	14786.2	12683.3
25°	13757.2	13702.9	13427.4	13067.5	12748.9	12627.0	12677.6	13234.3	13747.9	15187.3	12837.0
27.5°	14866.8	14767.5	14441.3	13922.2	13453.6	13208.1	13135.0	13539.8	13884.7	15684.0	13050.6
30°	16212.5	16098.2	15680.2	15003.6	14342.0	13939.0	13783.5	14081.5	14338.3	16289.4	13393.6
32.5°	17743.8	17578.9	17095.3	16349.4	15479.7	14864.9	14611.9	14797.4	15001.7	17018.5	13822.8
35°	19859.9	19663.1	18964.0	17935.0	16952.9	16107.6	15702.7	15837.7	16036.3	18105.6	14443.2
37.5°	21303.1	21215.0	20750.2	19783.0	18714.7	17741.9	17115.9	17194.7	17307.1	19464.4	15237.9
40°	21290.0	21325.6	21334.9	21344.3	20617.1	19685.6	19012.7	18930.2	18907.7	20956.3	16141.3
42.5°	20223.5	20369.7	20842.0	21799.8	22242.1	21814.8	21198.1	20960.1	20842.0	22714.4	17099.1
45°	18591.0	18669.7	19554.4	21424.9	23074.3	23923.3	23456.6	22706.9	22493.2	24330.0	17893.8
47.5°	17749.4	17835.7	18392.3	20431.5	23064.9	25627.0	25896.9	24468.7	24086.4	25735.8	18579.7
50°	15745.8	15925.8	16626.7	18703.5	22223.4	26410.5	28447.8	26567.9	25777.0	27104.0	19267.6
52.5°	12066.6	12344.0	13129.3	15862.0	20088.5	26022.5	30488.9	29113.2	27996.1	28520.9	19858.0
55°	7611.5	7817.6	8477.4	11202.6	16070.1	24003.9	31263.0	31866.5	30873.2	29862.9	20369.7
57.5°	4138.4	4230.3	4477.7	6185.1	10452.9	19541.3	30134.7	33433.4	33021.1	31002.5	20755.8
58°	3703.6	3765.4	3919.1	5360.4	9270.2	18321.1	29634.3	33439.0	33232.9	31169.3	20785.8
60°	2747.7	2715.8	2579.0	3058.8	5159.9	12657.0	26609.2	32100.8	32706.2	31373.6	20639.6
62.5°	2414.1	2337.2	2058.0	2026.1	2509.7	5830.9	20360.3	27497.6	28927.7	30207.8	19751.2
65°	2267.9	2185.4	1825.5	1709.3	1810.6	2466.6	11993.5	20622.7	22416.4	26672.9	17479.5
67.5°	2159.2	2052.3	1677.5	1518.2	1525.7	1630.6	4807.5	12988.8	15007.4	20251.6	13596.0
70°	2054.2	1938.0	1551.9	1368.2	1325.1	1289.5	1911.8	6501.9	8333.1	12792.0	8668.6
72.5°	1941.8	1827.4	1441.3	1250.1	1165.8	1047.7	1248.3	2659.6	3714.8	6052.1	3932.2
75°	1778.7	1675.6	1330.7	1145.2	1025.2	867.8	942.8	1388.8	1666.2	2410.3	1894.9
77.5°	1578.1	1493.8	1207.0	1059.0	909.0	704.7	725.3	963.4	1068.3	1379.5	1126.4
80°	1133.9	1163.9	1074.0	952.1	809.7	571.7	556.7	702.9	759.1	886.5	732.8
82.5°	796.6	813.4	888.4	777.8	669.1	449.8	410.5	494.8	528.5	582.9	395.5
85°	549.2	530.4	609.1	541.7	483.6	299.9	281.1	335.5	356.1	361.7	204.3
87.5°	329.9	329.9	352.4	290.5	260.5	155.6	151.8	191.2	204.3	194.9	112.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300339

CATALOG NUMBER: GAA-AF-08-LED-U-AFL-8030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8	10572.8
2.5°	10600.9	10467.9	10184.8	9958.1	9671.3	9373.3	9206.5	9028.4	8906.6	8818.5	8959.1
5°	10681.5	10409.8	9825.0	9270.2	8657.3	8020.0	7536.5	7086.7	6773.7	6578.7	6762.4
7.5°	10809.0	10391.0	9459.5	8511.1	7410.9	6350.1	5401.7	4807.5	4460.8	4290.2	4397.1
10°	10955.2	10361.0	9030.3	7482.1	5907.7	4571.4	3862.9	3623.0	3544.3	3512.4	3527.4
12.5°	11077.0	10297.3	8503.6	6237.6	4436.4	3609.9	3405.6	3399.9	3416.8	3420.6	3426.2
15°	11163.2	10203.6	7722.0	4940.6	3548.0	3289.4	3278.1	3311.9	3343.7	3356.8	3364.3
17.5°	11221.3	10010.5	6839.3	3906.0	3178.8	3133.8	3160.0	3203.1	3236.9	3246.3	3253.8
20°	11215.7	9727.5	5787.8	3257.5	2978.2	2978.2	3023.2	3057.0	3058.8	3047.6	3053.2
22.5°	11157.6	9339.5	4768.2	2912.6	2800.2	2832.0	2877.0	2845.2	2714.0	2627.7	2633.4
25°	11060.1	8876.6	3894.8	2693.3	2635.2	2691.5	2678.3	2438.4	2251.0	2166.7	2166.7
27.5°	10973.9	8329.3	3223.8	2502.2	2470.3	2539.7	2307.2	2089.8	2011.1	1971.7	1958.6
30°	10912.1	7738.9	2775.8	2318.5	2314.7	2264.1	2001.7	1941.8	1928.6	1896.8	1885.5
32.5°	10927.1	7141.0	2489.0	2157.3	2170.4	1938.0	1855.5	1868.7	1857.4	1823.7	1808.7
35°	11050.8	6573.1	2301.6	2011.1	1971.7	1750.6	1769.3	1793.7	1789.9	1743.1	1728.1
37.5°	11271.9	6035.2	2177.9	1889.3	1720.6	1656.9	1686.9	1724.3	1715.0	1683.1	1671.9
40°	11504.3	5529.1	2076.7	1793.7	1572.5	1593.1	1619.4	1640.0	1649.4	1658.7	1651.2
42.5°	11731.1	5000.6	1953.0	1696.2	1510.7	1533.2	1544.4	1565.0	1615.6	1651.2	1649.4
45°	11866.1	4503.9	1825.5	1557.5	1461.9	1475.1	1467.6	1508.8	1570.6	1628.8	1630.6
47.5°	12016.0	4117.8	1724.3	1430.1	1415.1	1424.5	1402.0	1443.2	1499.4	1570.6	1578.1
50°	12197.8	3887.3	1643.7	1328.9	1351.4	1351.4	1345.7	1383.2	1461.9	1544.4	1559.4
52.5°	12404.0	3842.3	1576.3	1255.8	1287.6	1285.8	1291.4	1347.6	1433.8	1514.4	1527.5
55°	12655.1	3964.1	1503.2	1201.4	1225.8	1233.3	1252.0	1315.7	1388.8	1480.7	1486.3
57.5°	12947.5	4211.5	1445.1	1158.3	1169.6	1193.9	1223.9	1282.0	1360.7	1461.9	1467.6
58°	12996.3	4264.0	1435.7	1154.6	1158.3	1186.4	1220.2	1276.4	1355.1	1465.7	1471.3
60°	12998.1	4438.3	1415.1	1137.7	1115.2	1162.1	1199.5	1255.8	1345.7	1478.8	1491.9
62.5°	12537.1	4436.4	1400.1	1113.3	1070.2	1128.3	1171.4	1237.0	1336.4	1510.7	1536.9
65°	11039.5	4031.6	1328.9	1075.8	1034.6	1098.3	1147.1	1223.9	1362.6	1649.4	1666.2
67.5°	8634.8	3304.4	1195.8	1023.4	987.7	1068.3	1132.1	1222.0	1390.7	1681.2	1692.5
70°	5709.1	2472.2	1049.6	963.4	939.0	1032.7	1139.6	1285.8	1358.9	1613.8	1583.8
72.5°	2963.2	1735.6	931.5	888.4	882.8	1000.9	1248.3	1278.3	1327.0	1518.2	1480.7
75°	1555.7	1205.2	828.4	805.9	815.3	993.4	1473.2	1244.5	1285.8	1452.6	1523.8
77.5°	952.1	972.8	740.3	731.0	749.7	970.9	1471.3	1201.4	1225.8	1336.4	1415.1
80°	637.3	789.1	672.9	674.7	687.9	888.4	1321.4	1133.9	1152.7	1263.3	1343.9
82.5°	403.0	466.7	611.0	642.9	626.0	732.8	1122.7	1032.7	1059.0	1445.1	1527.5
85°	204.3	292.4	530.4	618.5	564.2	513.6	910.9	905.3	918.4	1042.1	1089.0
87.5°	93.7	161.2	414.2	539.8	425.5	320.5	661.6	671.0	723.5	740.3	740.3
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)