

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: P192695

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192695
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-07-LED-U-AFL-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27524.6 lumens
Efficiency: N/A
Efficacy: 121.8 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): 226
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

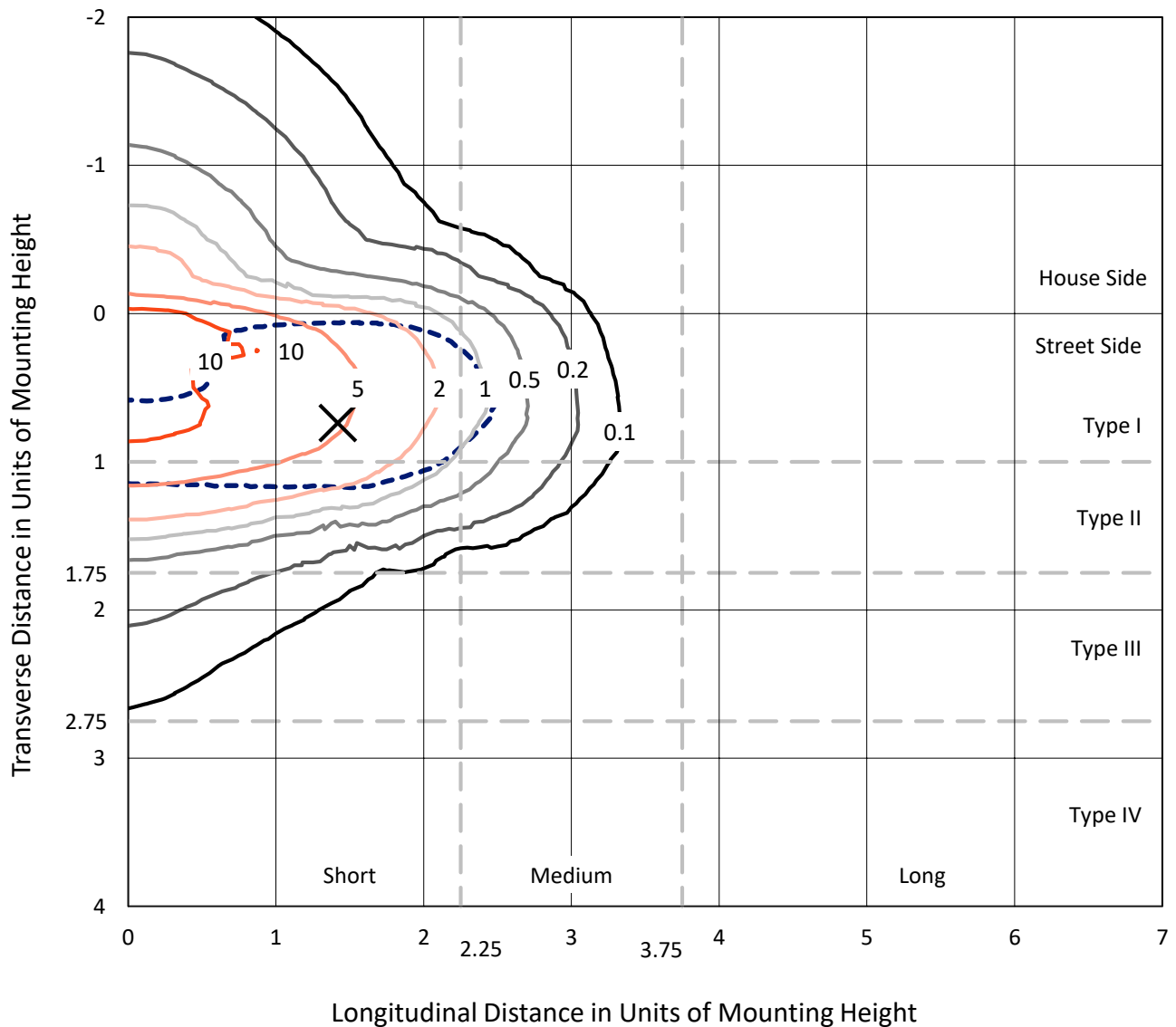


REPORT NUMBER: P192695

CATALOG NUMBER: GAN-AF-07-LED-U-AFL-7030-600-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

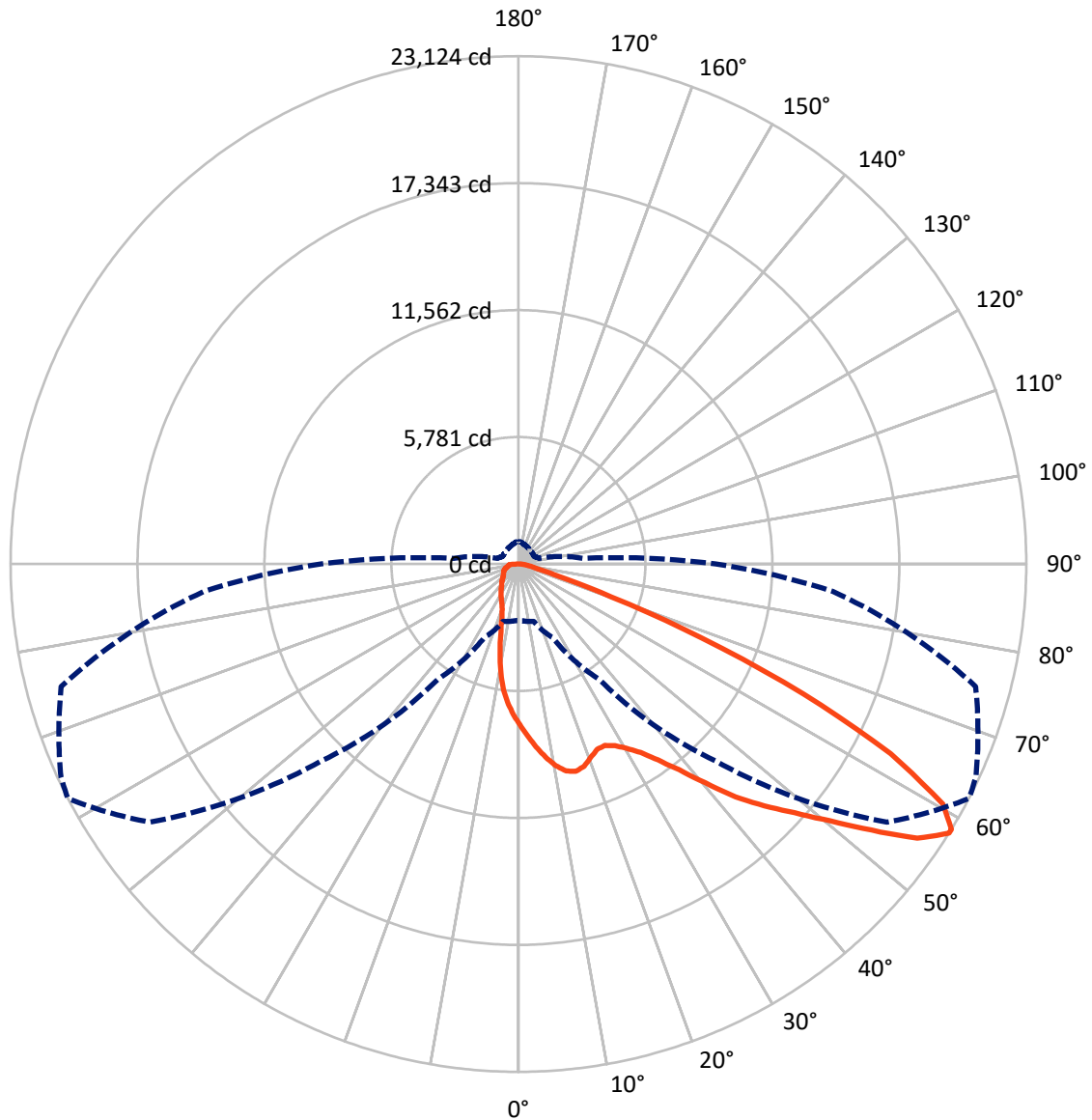


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P192695

CATALOG NUMBER: GAN-AF-07-LED-U-AFL-7030-600-ADJ

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-07-LED-U-AFL-7030-600-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4197.6	0.0	4197.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23327.0	0.0	23327.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	27524.6	0.0	27524.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.9	2.4
10°-20°	1671.4	6.1
20°-30°	2702.0	9.8
30°-40°	4289.3	15.6
40°-50°	6276.2	22.8
50°-60°	6564.4	23.8
60°-70°	3878.2	14.1
70°-80°	1092.5	4.0
80°-90°	396.6	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°	27524.6	100.0
0°-180°	27524.6	100.0



REPORT NUMBER: P192695

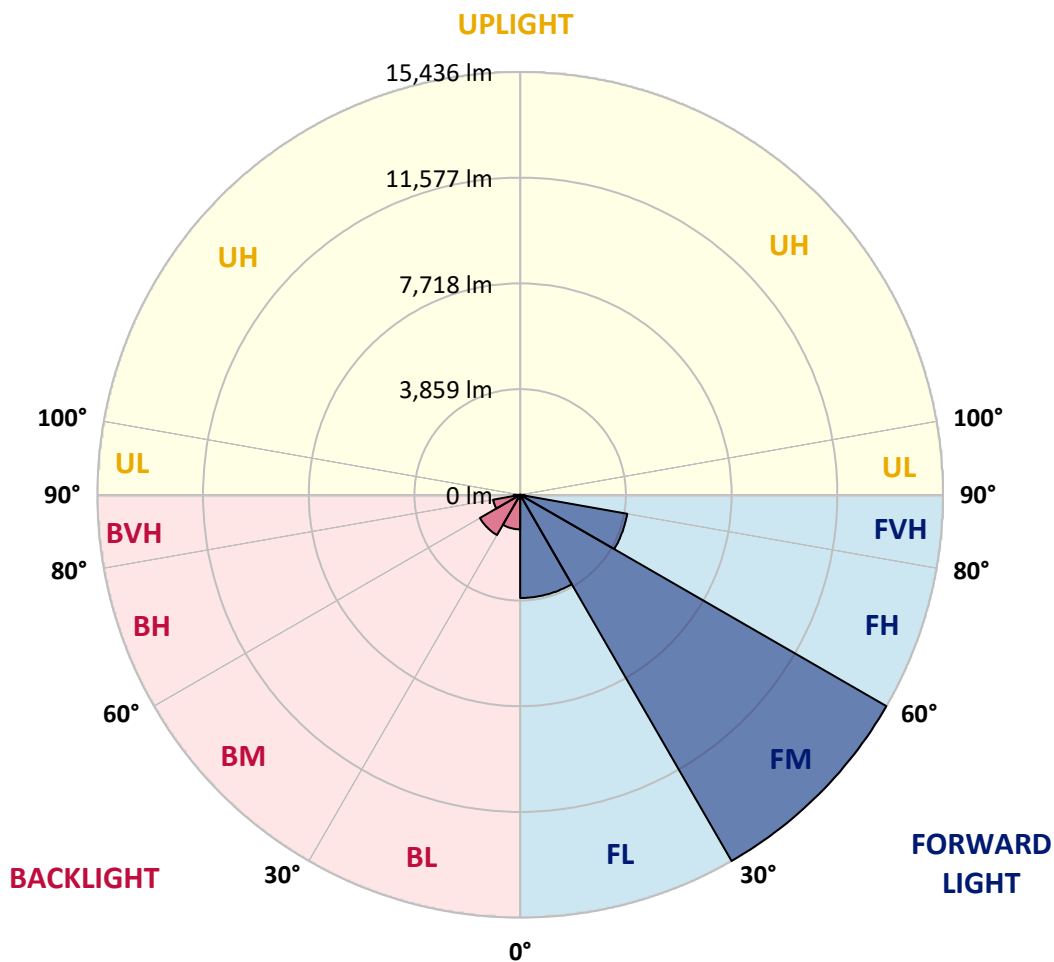
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3765.7	13.7			
FM (30°-60°)	15435.6	56.1			
FH (60°-80°)	3969.2	14.4			G2/5000
FVH (80°-90°)	156.5	0.6			G2/225
BL (0°-30°)	1261.6	4.6	B3/2500		
BM (30°-60°)	1694.3	6.2	B2/2500		
BH (60°-80°)	1001.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	240.2	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: P192695

CATALOG NUMBER: GAN-AF-07-LED-U-AFL-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3
2.5°	8354.7	8287.4	8244.6	8207.0	8157.8	8052.7	7911.5	7822.0	7776.6	7622.4	7439.7
5°	9173.9	9114.2	9070.1	9019.6	8931.5	8766.9	8538.7	8357.4	8267.8	7959.4	7593.8
7.5°	8981.9	9006.7	9083.2	9216.7	9330.6	9308.7	9105.1	8874.5	8756.5	8327.5	7772.8
10°	7825.9	7868.7	8000.8	8313.2	8818.8	9337.2	9495.2	9335.8	9216.7	8691.7	7956.8
12.5°	7593.8	7592.7	7603.1	7686.0	7986.7	8716.3	9508.3	9669.0	9597.7	9039.0	8144.7
15°	7688.5	7691.1	7683.3	7718.3	7811.6	8100.7	9111.6	9797.3	9847.9	9388.9	8339.2
17.5°	7937.3	7930.9	7901.1	7901.1	7934.7	8047.5	8645.0	9678.0	9911.4	9698.7	8510.2
20°	8354.7	8324.9	8245.8	8173.2	8137.0	8197.8	8453.2	9403.3	9801.2	9969.7	8651.4
22.5°	8860.2	8836.9	8708.5	8553.1	8427.2	8426.0	8551.7	9163.5	9610.7	10225.0	8770.8
25°	9513.4	9475.8	9285.3	9036.5	8816.1	8731.9	8766.9	9151.8	9506.9	10502.3	8877.1
27.5°	10280.8	10212.0	9986.6	9627.5	9303.4	9133.6	9083.2	9363.1	9601.6	10845.8	9024.9
30°	11211.3	11132.3	10843.2	10375.4	9917.8	9639.2	9531.6	9737.6	9915.3	11264.5	9262.0
32.5°	12270.3	12156.1	11821.9	11305.9	10704.5	10279.4	10104.6	10232.7	10374.0	11768.7	9558.8
35°	13733.6	13597.5	13114.1	12402.4	11723.3	11138.8	10858.8	10952.1	11089.5	12520.4	9987.8
37.5°	14731.5	14670.7	14349.2	13680.5	12941.6	12268.9	11836.0	11890.4	11968.3	13460.0	10537.4
40°	14722.4	14747.2	14753.6	14760.1	14257.2	13613.0	13147.7	13090.7	13075.2	14491.8	11162.0
42.5°	13984.9	14086.1	14412.7	15075.0	15381.0	15085.4	14659.0	14494.4	14412.7	15707.5	11824.4
45°	12856.1	12910.5	13522.3	14815.8	15956.4	16543.5	16220.8	15702.3	15554.5	16824.9	12373.9
47.5°	12274.1	12333.7	12718.8	14128.9	15949.8	17721.8	17908.3	16920.7	16656.2	17796.9	12848.4
50°	10888.6	11013.0	11497.8	12933.9	15368.0	18263.4	19672.3	18372.4	17825.4	18743.0	13323.9
52.5°	8344.3	8536.2	9079.2	10969.0	13891.7	17995.2	21083.8	20132.4	19359.9	19722.9	13732.2
55°	5263.4	5406.0	5862.3	7746.8	11112.9	16599.2	21619.1	22036.4	21349.5	20650.9	14086.1
57.5°	2861.8	2925.3	3096.4	4277.2	7228.4	13513.1	20838.8	23120.1	22834.8	21439.0	14353.1
58°	2561.1	2603.8	2710.1	3706.8	6410.6	12669.4	20492.7	23123.8	22981.3	21554.2	14373.8
60°	1900.1	1878.0	1783.4	2115.3	3568.2	8752.6	18400.9	22198.4	22617.1	21695.6	14272.7
62.5°	1669.4	1616.3	1423.1	1401.1	1735.5	4032.2	14079.5	19015.2	20004.2	20889.4	13658.4
65°	1568.3	1511.3	1262.4	1182.0	1252.0	1705.6	8293.8	14261.1	15501.4	18444.9	12087.5
67.5°	1493.1	1419.3	1160.0	1049.9	1055.0	1127.7	3324.5	8981.9	10378.0	14004.5	9402.0
70°	1420.6	1340.2	1073.2	946.1	916.3	891.8	1322.0	4496.2	5762.6	8845.9	5994.5
72.5°	1342.8	1263.7	996.7	864.5	806.3	724.5	863.2	1839.2	2568.9	4185.1	2719.3
75°	1230.0	1158.7	920.3	791.9	709.0	600.1	651.9	960.4	1152.2	1666.7	1310.3
77.5°	1091.3	1033.0	834.7	732.2	628.6	487.3	501.6	666.2	738.8	954.0	778.9
80°	784.2	804.9	742.6	658.4	560.0	395.3	384.9	486.1	524.9	613.1	506.8
82.5°	550.8	562.4	614.4	537.9	462.7	311.1	283.8	342.2	365.5	403.0	273.4
85°	379.7	366.8	421.2	374.5	334.5	207.4	194.4	231.9	246.3	250.1	141.3
87.5°	228.2	228.2	243.6	200.9	180.2	107.6	105.0	132.2	141.3	134.8	77.8
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°	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3
2.5°	7330.7	7238.8	7043.1	6886.2	6687.9	6481.8	6366.5	6243.4	6159.1	6098.2	6195.4
5°	7386.5	7198.5	6794.2	6410.6	5986.8	5546.0	5211.6	4900.6	4684.2	4549.3	4676.4
7.5°	7474.7	7185.7	6541.5	5885.6	5124.8	4391.2	3735.3	3324.5	3084.7	2966.8	3040.6
10°	7575.7	7164.9	6244.6	5174.1	4085.3	3161.2	2671.3	2505.5	2450.9	2429.0	2439.3
12.5°	7659.9	7120.9	5880.5	4313.4	3067.9	2496.3	2355.1	2351.2	2362.8	2365.4	2369.3
15°	7719.6	7056.0	5339.9	3416.5	2453.5	2274.7	2266.9	2290.2	2312.3	2321.3	2326.5
17.5°	7759.8	6922.5	4729.5	2701.1	2198.2	2167.0	2185.1	2215.0	2238.4	2244.8	2250.0
20°	7755.9	6726.8	4002.3	2252.6	2059.5	2059.5	2090.6	2113.9	2115.3	2107.5	2111.3
22.5°	7715.8	6458.6	3297.3	2014.2	1936.4	1958.5	1989.5	1967.5	1876.7	1817.1	1821.1
25°	7648.3	6138.4	2693.3	1862.6	1822.3	1861.2	1852.2	1686.2	1556.6	1498.3	1498.3
27.5°	7588.7	5759.9	2229.3	1730.3	1708.3	1756.3	1595.5	1445.2	1390.8	1363.5	1354.5
30°	7546.0	5351.6	1919.5	1603.3	1600.6	1565.6	1384.2	1342.8	1333.7	1311.6	1303.9
32.5°	7556.3	4938.2	1721.3	1491.8	1500.9	1340.2	1283.1	1292.2	1284.5	1261.1	1250.7
35°	7641.8	4545.4	1591.6	1390.8	1363.5	1210.6	1223.4	1240.4	1237.8	1205.3	1195.0
37.5°	7794.8	4173.4	1506.0	1306.5	1189.9	1145.8	1166.5	1192.4	1185.9	1163.9	1156.2
40°	7955.5	3823.5	1436.1	1240.4	1087.4	1101.7	1119.8	1134.1	1140.5	1147.0	1141.9
42.5°	8112.4	3458.0	1350.6	1173.0	1044.6	1060.3	1068.0	1082.2	1117.2	1141.9	1140.5
45°	8205.7	3114.6	1262.4	1077.1	1010.9	1020.1	1014.8	1043.3	1086.1	1126.4	1127.7
47.5°	8309.3	2847.6	1192.4	988.9	978.5	985.1	969.4	998.0	1036.9	1086.1	1091.3
50°	8435.1	2688.1	1136.8	919.0	934.5	934.5	930.6	956.6	1010.9	1068.0	1078.4
52.5°	8577.6	2657.0	1090.1	868.4	890.5	889.2	892.9	931.9	991.5	1047.2	1056.3
55°	8751.3	2741.4	1039.5	830.8	847.7	852.9	865.8	909.9	960.4	1024.0	1027.8
57.5°	8953.5	2912.3	999.2	801.0	808.7	825.7	846.3	886.5	940.9	1010.9	1014.8
58°	8987.2	2948.7	992.8	798.3	801.0	820.4	843.8	882.6	937.1	1013.6	1017.4
60°	8988.5	3069.2	978.5	786.7	771.2	803.6	829.5	868.4	930.6	1022.6	1031.7
62.5°	8669.7	3067.9	968.1	769.8	740.1	780.2	810.0	855.4	924.2	1044.6	1062.8
65°	7634.1	2788.0	919.0	743.9	715.4	759.6	793.2	846.3	942.3	1140.5	1152.2
67.5°	5971.1	2285.0	826.9	707.7	683.1	738.8	782.9	845.0	961.7	1162.6	1170.3
70°	3948.0	1709.6	725.8	666.2	649.3	714.1	788.1	889.2	939.6	1116.0	1095.3
72.5°	2049.1	1200.2	644.2	614.4	610.4	692.1	863.2	883.9	917.7	1049.9	1024.0
75°	1075.7	833.4	572.8	557.3	563.8	686.9	1018.8	860.6	889.2	1004.5	1053.7
77.5°	658.4	672.7	512.0	505.5	518.4	671.4	1017.4	830.8	847.7	924.2	978.5
80°	440.7	545.6	465.3	466.6	475.8	614.4	913.7	784.2	797.1	873.5	929.4
82.5°	278.6	322.8	422.5	444.5	432.8	506.8	776.4	714.1	732.2	999.2	1056.3
85°	141.3	202.2	366.8	427.7	390.2	355.1	629.9	626.0	635.2	720.7	753.1
87.5°	64.8	111.5	286.5	373.2	294.2	221.7	457.6	464.1	500.3	512.0	512.0
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)