

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: P320871

Luminaire Tested: **GAN-SA7A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28281 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
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: 24 FT

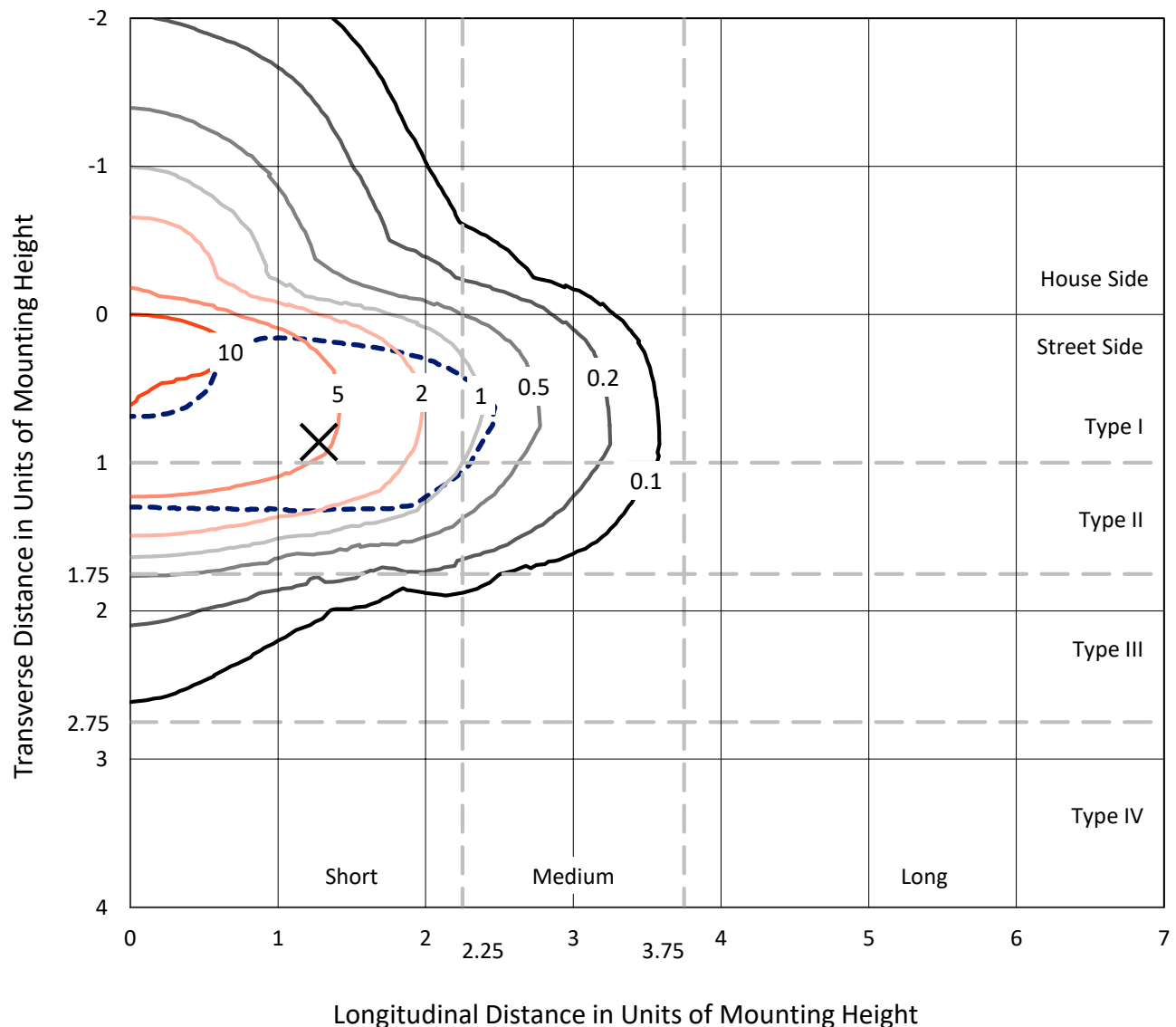


REPORT NUMBER: P320871

CATALOG NUMBER: GAN-SA7A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

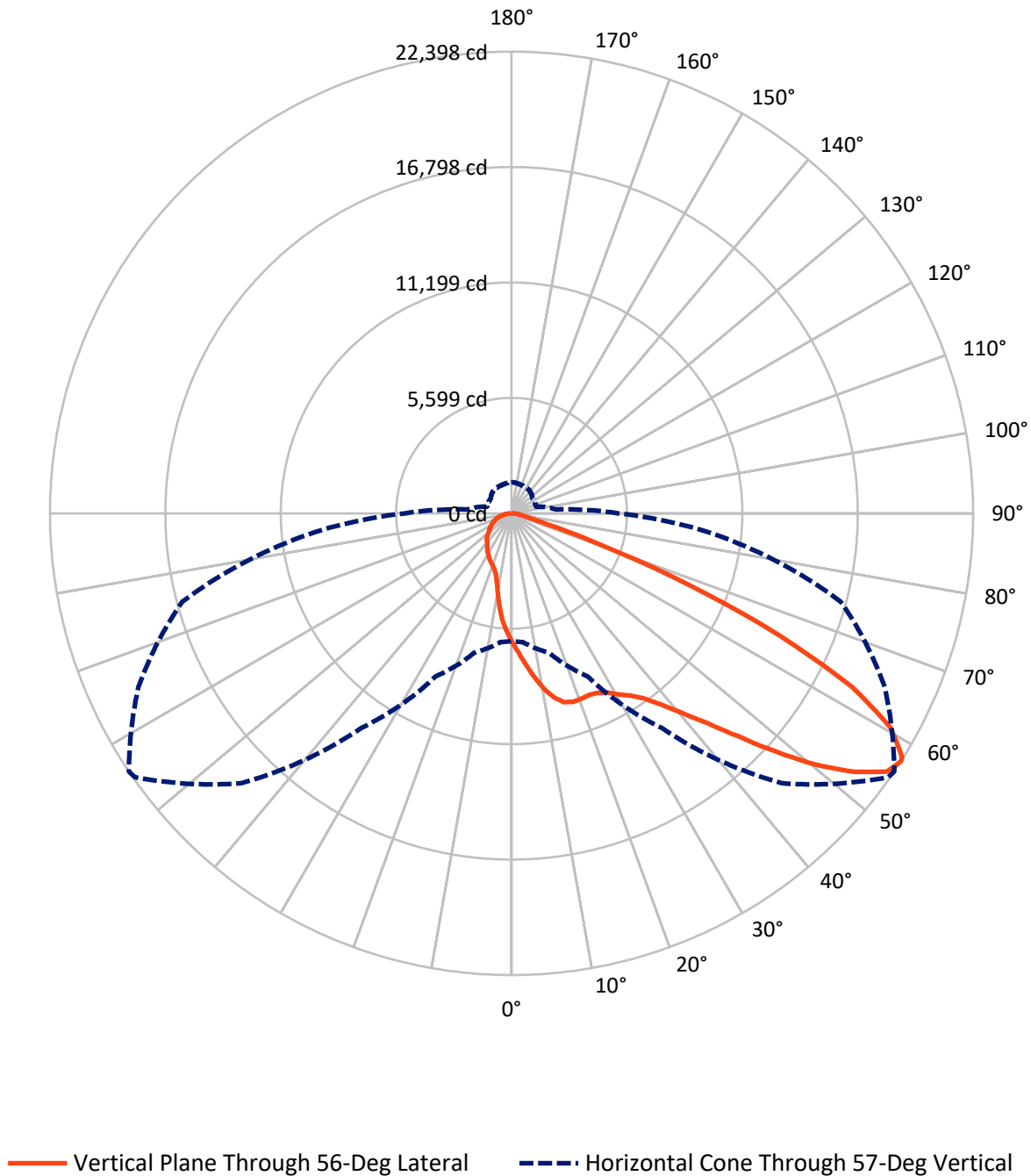
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P320871
CATALOG NUMBER: GAN-SA7A-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320871

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4875.0	0.0	4875.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	23406.0	0.0	23406.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	28281.0	0.0	28281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.2	2.1
10°-20°	1694.1	6.0
20°-30°	2759.4	9.8
30°-40°	4124.9	14.6
40°-50°	6256.6	22.1
50°-60°	7012.6	24.8
60°-70°	4141.9	14.6
70°-80°	1357.0	4.8
80°-90°	335.3	1.2
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°	28281.0	100.0
0°-180°	28281.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320871

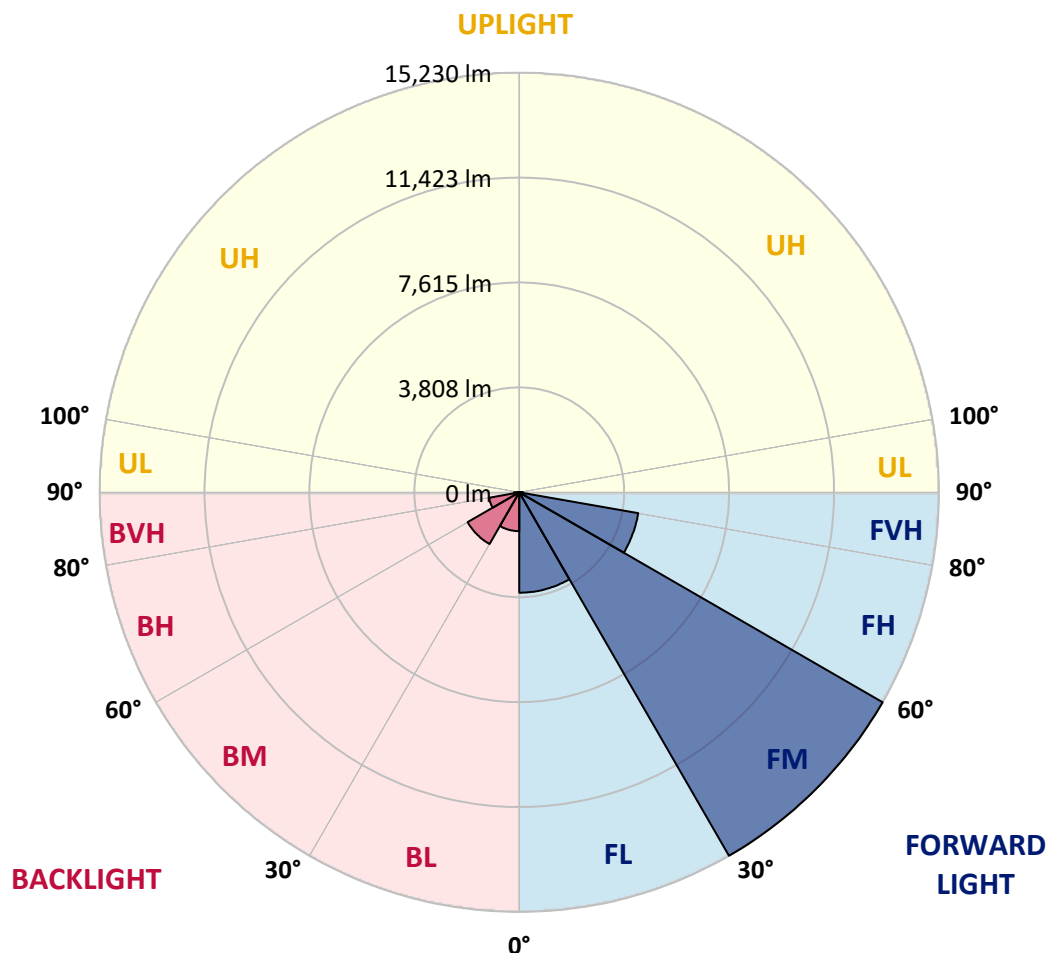
CATALOG NUMBER: GAN-SA7A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3643.0	12.9			
FM	(30°-60°)	15230.3	53.9			
FH	(60°-80°)	4385.1	15.5			G2/5000
FVH	(80°-90°)	147.6	0.5			G2/225
BL	(0°-30°)	1409.6	5.0	B3/2500		
BM	(30°-60°)	2163.9	7.7	B2/2500		
BH	(60°-80°)	1113.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	187.6	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-G3

Type II Short





REPORT NUMBER: P320871

CATALOG NUMBER: GAN-SA7A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8
2.5°	7202.9	7269.0	7239.8	7138.7	7061.0	6951.1	6828.7	6791.8	6662.5	6517.7	6343.7
5°	8342.9	8309.9	8262.3	8104.8	7938.6	7745.2	7438.1	7389.5	7101.8	6774.3	6428.3
7.5°	8992.2	8989.3	8961.1	8868.7	8717.1	8464.4	8094.1	8036.8	7602.3	7075.6	6539.1
10°	8897.9	8891.1	8937.7	9034.0	9079.6	9027.2	8715.2	8657.8	8124.3	7408.9	6667.3
12.5°	8362.4	8366.3	8441.1	8643.3	8918.3	9248.8	9198.2	9170.0	8665.6	7786.0	6822.9
15°	7945.4	7954.2	8013.5	8189.4	8514.0	9113.7	9491.7	9501.5	9189.5	8202.0	7004.6
17.5°	7762.7	7781.2	7808.4	7931.8	8229.2	8844.4	9561.7	9614.2	9648.2	8633.5	7179.5
20°	7821.0	7838.5	7846.3	7925.0	8169.0	8681.2	9513.1	9607.4	10000.1	9039.8	7354.5
22.5°	8082.5	8093.2	8098.0	8118.4	8307.9	8727.8	9481.0	9580.2	10254.7	9404.3	7486.7
25°	8515.9	8508.2	8477.1	8450.8	8578.1	8912.5	9554.9	9649.2	10461.7	9734.7	7573.2
27.5°	9034.9	9025.2	8965.0	8893.0	8965.9	9200.2	9767.8	9842.6	10647.3	10043.8	7616.9
30°	9657.9	9632.7	9519.0	9433.4	9461.6	9631.7	10118.6	10186.7	10934.1	10394.7	7659.7
32.5°	10378.1	10350.9	10186.7	10044.8	10044.8	10186.7	10480.2	10536.6	11177.0	10791.2	7728.7
35°	11280.1	11246.1	11032.2	10794.1	10727.0	10799.0	10972.9	11012.8	11614.4	11290.8	7854.1
37.5°	12343.3	12297.7	12020.7	11701.9	11555.1	11551.2	11676.6	11758.3	12313.2	11946.8	8066.9
40°	13409.5	13377.5	13135.5	12884.7	12597.0	12504.7	12698.1	12723.4	13226.8	12761.3	8339.0
42.5°	14233.7	14227.9	14183.2	14216.2	13921.7	13735.1	13886.7	13907.2	14342.6	13642.8	8628.7
45°	14669.1	14678.9	14895.6	15375.7	15484.6	15348.5	15423.3	15429.2	15617.7	14532.1	8894.0
47.5°	14320.2	14370.8	14918.9	15992.9	16884.1	17336.1	17211.7	17283.6	16854.0	15296.0	9102.0
50°	12960.5	13022.7	13955.8	15717.8	17537.3	19259.5	19194.4	19177.9	17851.2	15855.9	9214.7
52.5°	11276.2	11324.8	12094.5	14288.2	17058.1	20322.8	20920.5	20835.0	18737.6	16274.7	9236.1
55°	8711.3	8787.1	9524.8	11434.6	15120.1	19916.5	22189.8	22113.1	19545.2	16494.4	9210.9
57°	6193.1	6272.8	7005.6	8726.8	12719.5	18510.2	22316.2	22397.8	19981.6	16531.3	9239.0
57.5°	5526.3	5608.0	6334.0	8005.7	11971.1	18001.8	22207.3	22343.4	20060.4	16525.5	9254.6
60°	2782.6	2813.7	3276.3	4468.9	7567.3	14553.5	20787.4	21138.2	20131.3	16239.8	9321.7
62.5°	1730.0	1707.7	1693.1	2058.5	3681.6	9651.1	17857.0	18532.5	18773.5	15547.8	9159.3
65°	1521.0	1479.3	1318.9	1289.7	1626.0	4687.6	13447.4	14288.2	15872.4	14457.3	8772.5
67.5°	1428.7	1387.9	1207.1	1098.3	1099.2	1858.3	8348.8	9295.4	12364.7	12613.5	7859.9
70°	1333.5	1296.5	1127.4	999.1	936.0	1029.3	3841.0	4559.3	8060.1	9914.5	6569.2
72.5°	1211.0	1185.7	1025.4	893.2	826.1	770.7	1470.5	1736.8	4666.2	6658.6	4562.2
75°	1082.7	1059.4	922.3	796.0	714.4	606.5	828.1	892.2	2370.5	3406.6	2246.1
77.5°	941.8	928.2	820.3	703.7	638.5	502.5	586.1	617.2	1016.6	1460.8	1126.5
80°	749.3	775.6	717.3	626.9	566.6	402.4	415.0	435.4	591.9	713.4	639.5
82.5°	487.9	533.6	561.8	509.3	466.5	316.8	298.4	307.1	385.9	435.4	278.0
85°	203.1	228.4	369.3	333.4	310.0	231.3	200.2	204.1	239.1	247.8	113.7
87.5°	90.4	96.2	162.3	152.6	131.2	79.7	85.5	93.3	127.3	120.5	43.7
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: P320871

CATALOG NUMBER: GAN-SA7A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8	6272.8
2.5°	6278.6	6196.9	6057.0	5902.5	5776.1	5675.0	5573.0	5503.0	5421.4	5377.6	5355.3
5°	6283.4	6123.1	5828.6	5526.3	5256.1	5009.3	4774.1	4593.3	4424.2	4332.8	4307.5
7.5°	6303.9	6062.8	5586.6	5089.0	4608.8	4170.5	3832.3	3620.4	3467.8	3399.8	3380.3
10°	6320.4	5991.9	5287.2	4550.5	3897.4	3453.2	3190.8	3072.2	3019.7	3011.0	3002.3
12.5°	6359.3	5919.0	4972.3	3988.7	3344.4	3037.2	2945.9	2938.1	2952.7	2974.1	2974.1
15°	6420.5	5847.1	4612.7	3506.7	2992.5	2884.6	2903.1	2945.9	2985.7	3018.8	3023.6
17.5°	6465.2	5758.6	4225.9	3120.8	2805.0	2834.1	2900.2	2960.5	3001.3	3033.4	3036.3
20°	6497.3	5621.6	3812.8	2826.3	2697.1	2787.5	2870.1	2923.5	2951.7	2983.8	2988.6
22.5°	6480.7	5437.9	3446.4	2615.4	2609.6	2719.4	2798.1	2862.3	2840.9	2809.8	2830.2
25°	6401.0	5185.2	3069.3	2458.0	2517.3	2628.1	2725.3	2682.5	2610.6	2597.0	2604.7
27.5°	6259.1	4862.5	2720.4	2312.2	2410.4	2543.5	2537.7	2494.9	2469.6	2452.1	2462.8
30°	6106.6	4512.6	2415.2	2184.9	2291.8	2401.6	2379.3	2378.3	2353.0	2324.8	2338.4
32.5°	5955.9	4160.8	2173.2	2079.9	2202.4	2216.9	2265.5	2280.1	2230.5	2171.3	2167.4
35°	5824.7	3828.4	1989.5	1984.7	2094.5	2096.4	2167.4	2147.0	2023.5	1962.3	1962.3
37.5°	5726.5	3497.0	1849.6	1899.1	1952.6	2003.1	2039.1	1954.5	1934.1	1900.1	1899.1
40°	5683.8	3205.4	1762.1	1834.0	1852.5	1916.6	1824.3	1857.3	1867.1	1849.6	1849.6
42.5°	5639.1	2951.7	1686.3	1784.4	1781.5	1772.8	1726.1	1768.9	1807.8	1808.7	1805.8
45°	5594.4	2733.0	1619.2	1678.5	1719.3	1625.0	1633.8	1679.5	1733.9	1753.3	1753.3
47.5°	5544.8	2560.0	1558.0	1566.7	1629.9	1566.7	1559.9	1594.9	1659.1	1690.2	1697.0
50°	5435.9	2404.5	1488.0	1468.6	1486.1	1507.4	1513.3	1529.8	1600.7	1650.3	1662.0
52.5°	5285.3	2265.5	1398.6	1378.2	1378.2	1458.8	1486.1	1490.9	1551.2	1610.5	1622.1
55°	5159.9	2177.1	1306.3	1302.4	1298.5	1407.3	1454.0	1461.8	1503.6	1550.2	1556.0
57°	5168.7	2170.3	1235.3	1239.2	1238.2	1354.9	1423.9	1440.4	1461.8	1501.6	1508.4
57.5°	5173.5	2175.1	1219.8	1221.7	1220.7	1340.3	1415.1	1433.6	1450.1	1491.9	1498.7
60°	5246.4	2187.8	1156.6	1135.2	1140.1	1262.5	1365.5	1388.9	1399.6	1455.0	1463.7
62.5°	5138.5	2131.4	1106.0	1054.5	1054.5	1180.9	1296.5	1333.5	1350.0	1424.8	1439.4
65°	4825.6	1973.0	1046.8	963.2	972.9	1099.2	1213.9	1274.2	1299.5	1392.8	1408.3
67.5°	4342.5	1789.3	983.6	881.5	891.2	1013.7	1128.4	1193.5	1233.4	1357.8	1370.4
70°	3713.7	1564.8	898.1	795.0	806.7	920.4	1027.3	1101.2	1160.5	1324.7	1328.6
72.5°	2737.9	1282.9	778.5	699.8	712.4	811.6	925.3	1010.8	1090.5	1242.1	1240.2
75°	1628.0	1003.0	646.3	603.6	612.3	704.6	832.9	936.9	1056.5	1210.0	1228.5
77.5°	987.5	755.2	526.8	505.4	516.1	610.4	766.8	877.6	1041.9	1141.0	1135.2
80°	596.8	539.4	420.8	407.2	417.9	521.9	709.5	832.9	910.7	974.8	974.8
82.5°	312.0	329.5	309.1	298.4	313.0	423.8	645.4	727.0	804.7	691.0	645.4
85°	127.3	172.0	187.6	186.6	195.4	293.5	556.9	622.0	519.0	492.8	504.4
87.5°	42.8	72.9	91.4	78.7	82.6	184.7	385.9	300.3	356.7	248.8	236.2
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)