

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: P320993

Luminaire Tested: **GAN-SA9A-750-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320993  
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-SA9A-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42740 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

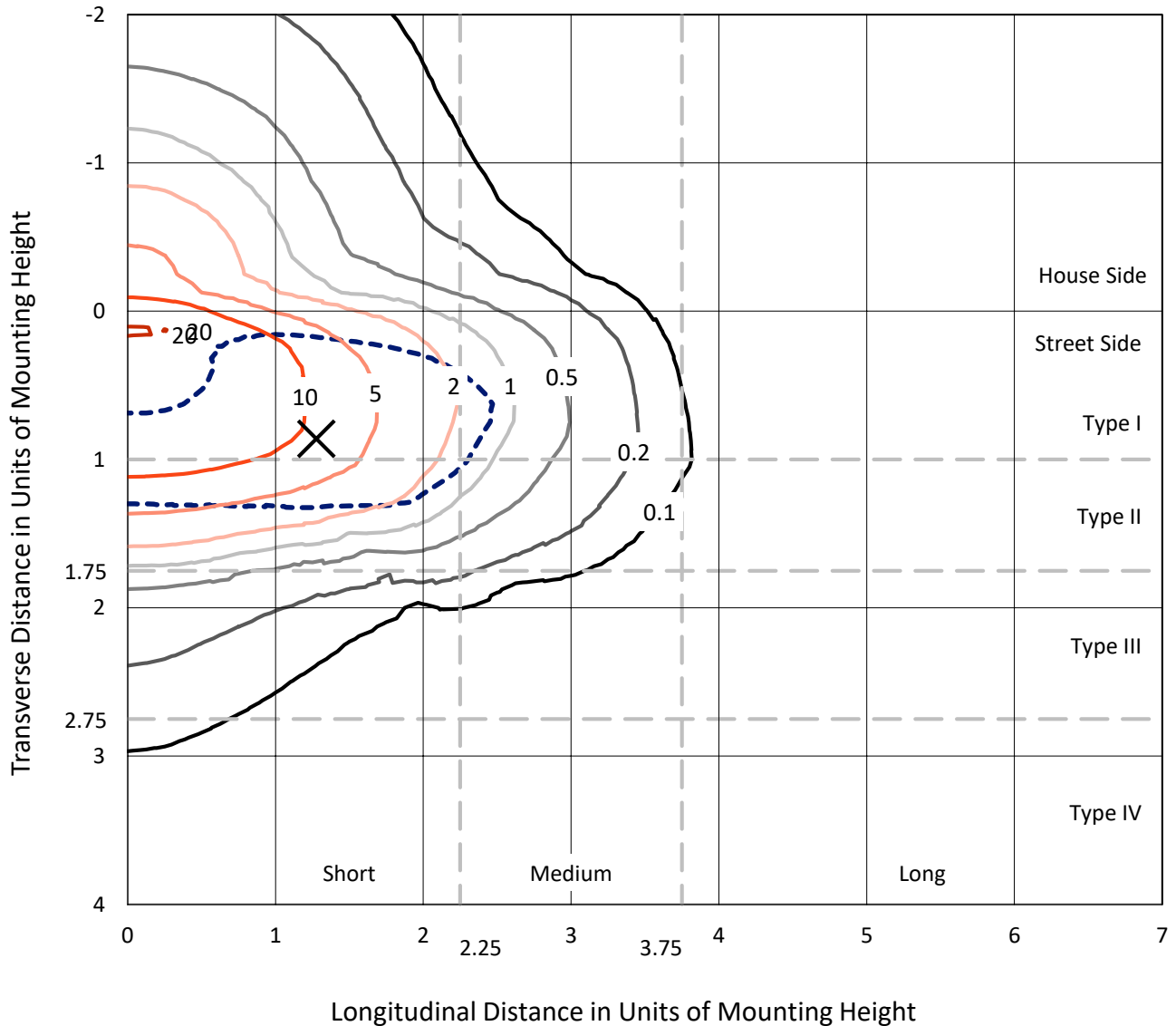
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

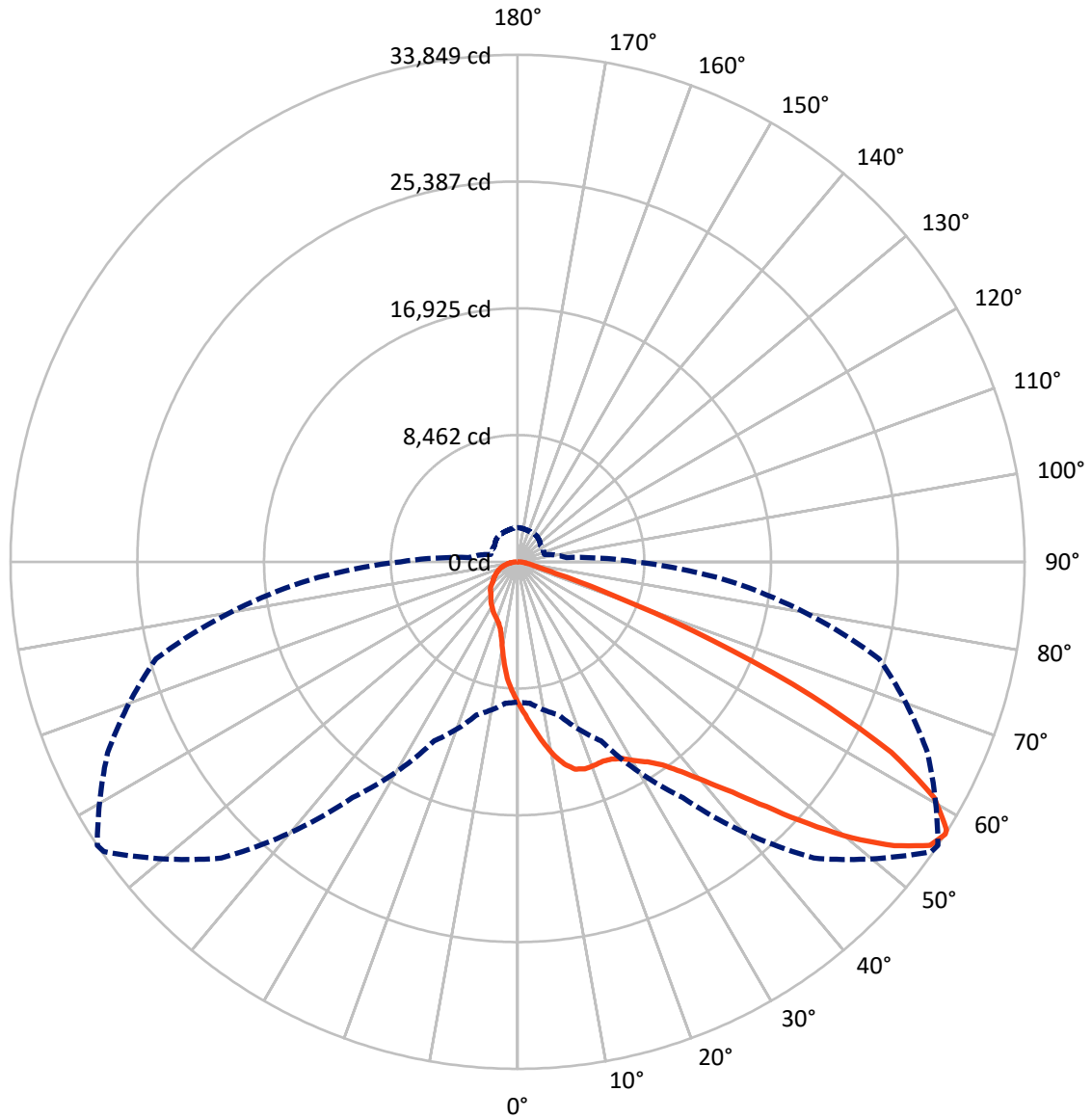
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7367.5	0.0	7367.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	35372.5	0.0	35372.5
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	42740.0	0.0	42740.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.6	2.1
10°-20°	2560.2	6.0
20°-30°	4170.1	9.8
30°-40°	6233.8	14.6
40°-50°	9455.4	22.1
50°-60°	10597.8	24.8
60°-70°	6259.5	14.6
70°-80°	2050.9	4.8
80°-90°	506.7	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°	42740.0	100.0
0°-180°	42740.0	100.0

**Coefficient of Utilization**

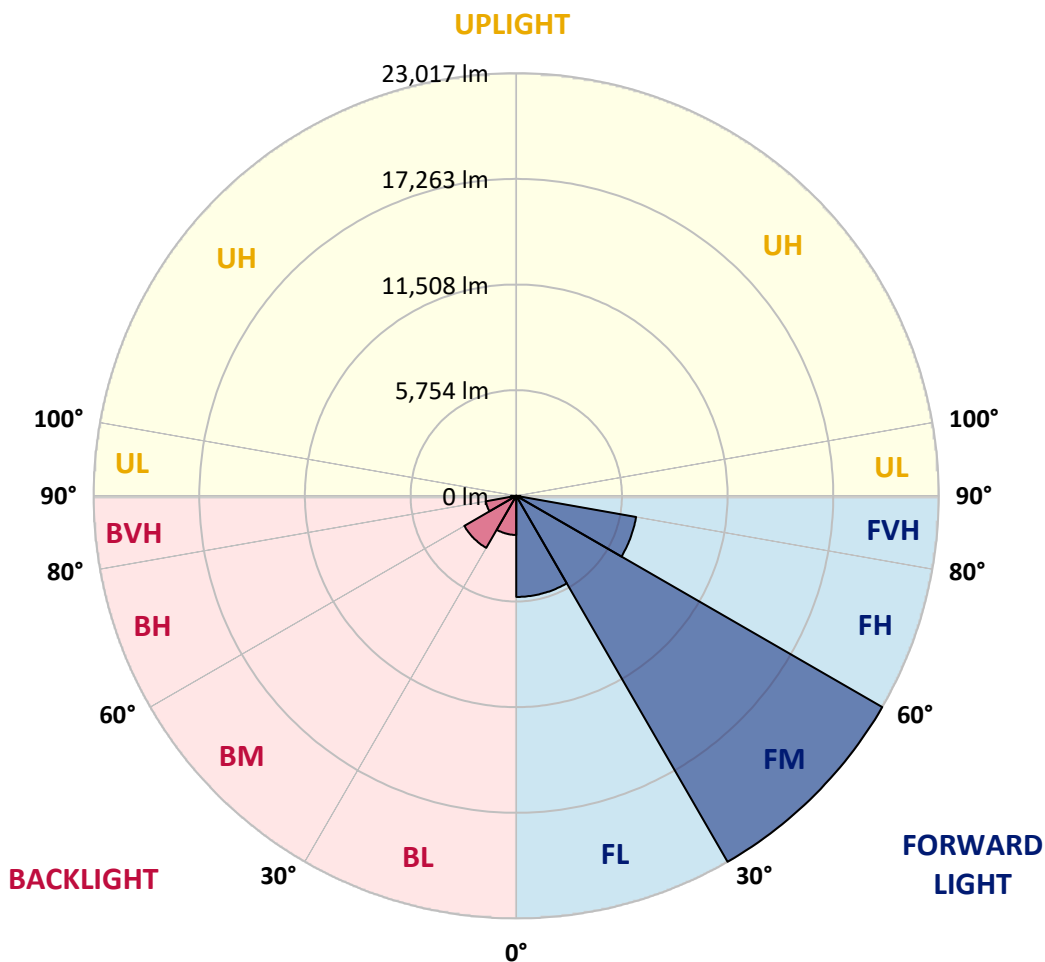


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5505.6	12.9			
FM (30°-60°)	23016.9	53.9			
FH (60°-80°)	6627.0	15.5			G3/7500
FVH (80°-90°)	223.1	0.5			G2/225
BL (0°-30°)	2130.3	5.0	B3/2500		
BM (30°-60°)	3270.2	7.7	B3/5000		
BH (60°-80°)	1683.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	283.6	0.7			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°	56°	65°	75°	85°
0°	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8
2.5°	10885.4	10985.3	10941.2	10788.5	10671.0	10505.0	10319.9	10264.1	10068.8	9849.9	9587.0
5°	12608.4	12558.4	12486.4	12248.5	11997.3	11705.0	11240.9	11167.4	10732.7	10237.7	9714.8
7.5°	13589.5	13585.1	13542.5	13403.0	13173.9	12792.0	12232.3	12145.7	11489.1	10693.0	9882.2
10°	13447.1	13436.8	13507.3	13652.7	13721.7	13642.4	13170.9	13084.3	12277.9	11196.8	10076.1
12.5°	12637.7	12643.6	12756.7	13062.2	13477.9	13977.3	13900.9	13858.3	13096.0	11766.7	10311.1
15°	12007.6	12020.8	12110.4	12376.3	12866.9	13773.1	14344.5	14359.2	13887.7	12395.4	10585.8
17.5°	11731.5	11759.4	11800.5	11987.0	12436.5	13366.3	14450.3	14529.6	14581.0	13047.5	10850.2
20°	11819.6	11846.0	11857.8	11976.8	12345.4	13119.5	14376.8	14519.3	15112.7	13661.5	11114.6
22.5°	12214.7	12230.9	12238.2	12269.1	12555.5	13190.0	14328.3	14478.2	15497.5	14212.3	11314.3
25°	12869.8	12858.1	12811.1	12771.4	12963.8	13469.1	14440.0	14582.5	15810.4	14711.7	11445.1
27.5°	13654.2	13639.5	13548.4	13439.7	13549.9	13903.9	14761.7	14874.8	16090.9	15178.8	11511.2
30°	14595.7	14557.5	14385.6	14256.4	14299.0	14556.0	15291.9	15394.7	16524.2	15709.0	11575.8
32.5°	15684.1	15642.9	15394.7	15180.3	15180.3	15394.7	15838.3	15923.5	16891.4	16308.3	11680.1
35°	17047.1	16995.7	16672.6	16312.7	16211.4	16320.1	16583.0	16643.2	17552.4	17063.3	11869.5
37.5°	18654.0	18585.0	18166.4	17684.6	17462.8	17456.9	17646.4	17769.8	18608.5	18054.7	12191.2
40°	20265.3	20216.9	19851.1	19472.2	19037.4	18897.9	19190.1	19228.3	19989.2	19285.6	12602.5
42.5°	21510.9	21502.1	21434.5	21484.4	21039.4	20757.4	20986.5	21017.4	21675.4	20617.8	13040.2
45°	22168.9	22183.6	22511.2	23236.7	23401.3	23195.6	23308.7	23317.5	23602.5	21961.8	13441.2
47.5°	21641.6	21718.0	22546.4	24169.4	25516.4	26199.4	26011.4	26120.0	25470.8	23116.3	13755.5
50°	19586.7	19680.7	21090.8	23753.8	26503.4	29106.2	29007.7	28982.8	26977.8	23962.3	13925.9
52.5°	17041.3	17114.7	18278.0	21593.1	25779.3	30713.0	31616.4	31487.1	28317.4	24595.4	13958.2
55°	13165.0	13279.6	14394.4	17280.7	22850.4	30099.1	33534.7	33418.6	29538.0	24927.4	13920.0
57°	9359.3	9479.8	10587.3	13188.5	19222.5	27973.7	33725.6	33849.0	30197.5	24983.2	13962.6
57.5°	8351.7	8475.1	9572.3	12098.7	18091.5	27205.5	33561.1	33766.7	30316.5	24974.4	13986.1
60°	4205.2	4252.2	4951.4	6753.6	11436.2	21994.1	31415.1	31945.4	30423.7	24542.5	14087.5
62.5°	2614.5	2580.7	2558.7	3111.0	5563.9	14585.4	26986.6	28007.5	28371.7	23496.7	13842.2
65°	2298.7	2235.5	1993.2	1949.1	2457.3	7084.1	20322.6	21593.1	23987.3	21848.7	13257.6
67.5°	2159.2	2097.5	1824.3	1659.8	1661.2	2808.4	12617.2	14047.8	18686.3	19062.4	11878.4
70°	2015.2	1959.4	1703.8	1509.9	1414.5	1555.5	5804.8	6890.2	12180.9	14983.4	9927.8
72.5°	1830.2	1792.0	1549.6	1349.8	1248.5	1164.8	2222.3	2624.8	7051.8	10062.9	6894.6
75°	1636.3	1601.0	1393.9	1203.0	1079.6	916.5	1251.4	1348.4	3582.5	5148.2	3394.4
77.5°	1423.3	1402.7	1239.7	1063.4	965.0	759.4	885.7	932.7	1536.4	2207.6	1702.4
80°	1132.5	1172.1	1084.0	947.4	856.3	608.1	627.2	658.0	894.5	1078.1	966.5
82.5°	737.3	806.4	849.0	769.7	705.0	478.8	450.9	464.1	583.1	658.0	420.1
85°	307.0	345.2	558.2	503.8	468.6	349.6	302.6	308.5	361.3	374.5	171.9
87.5°	136.6	145.4	245.3	230.6	198.3	120.4	129.3	141.0	192.4	182.1	66.1
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°	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8	9479.8
2.5°	9488.6	9365.2	9153.7	8920.2	8729.2	8576.4	8422.2	8316.5	8193.1	8127.0	8093.2
5°	9495.9	9253.6	8808.5	8351.7	7943.4	7570.3	7214.8	6941.6	6686.1	6548.0	6509.8
7.5°	9526.8	9162.5	8442.8	7690.7	6965.1	6302.7	5791.6	5471.4	5240.8	5137.9	5108.6
10°	9551.7	9055.3	7990.4	6877.0	5890.0	5218.7	4822.1	4642.9	4563.6	4550.4	4537.2
12.5°	9610.5	8945.1	7514.5	6028.0	5054.2	4590.1	4452.0	4440.2	4462.3	4494.6	4494.6
15°	9703.0	8836.4	6971.0	5299.5	4522.5	4359.5	4387.4	4452.0	4512.2	4562.2	4569.5
17.5°	9770.6	8702.8	6386.4	4716.4	4239.0	4283.1	4383.0	4474.0	4535.7	4584.2	4588.6
20°	9819.1	8495.7	5762.2	4271.3	4076.0	4212.6	4337.4	4418.2	4460.8	4509.3	4516.6
22.5°	9794.1	8218.1	5208.4	3952.6	3943.8	4109.8	4228.7	4325.7	4293.4	4246.4	4277.2
25°	9673.7	7836.2	4638.5	3714.6	3804.2	3971.7	4118.6	4053.9	3945.3	3924.7	3936.4
27.5°	9459.2	7348.5	4111.2	3494.3	3642.7	3843.9	3835.1	3770.5	3732.3	3705.8	3722.0
30°	9228.6	6819.7	3650.0	3301.9	3463.5	3629.5	3595.7	3594.2	3556.0	3513.4	3534.0
32.5°	9000.9	6288.0	3284.3	3143.3	3328.3	3350.4	3423.8	3445.9	3370.9	3281.3	3275.5
35°	8802.6	5785.7	3006.7	2999.3	3165.3	3168.2	3275.5	3244.6	3058.1	2965.5	2965.5
37.5°	8654.3	5284.8	2795.2	2870.1	2950.9	3027.2	3081.6	2953.8	2923.0	2871.5	2870.1
40°	8589.7	4844.2	2663.0	2771.7	2799.6	2896.5	2757.0	2806.9	2821.6	2795.2	2795.2
42.5°	8522.1	4460.8	2548.4	2696.8	2692.3	2679.1	2608.6	2673.3	2732.0	2733.5	2729.1
45°	8454.5	4130.3	2447.1	2536.7	2598.3	2455.9	2469.1	2538.1	2620.4	2649.8	2649.8
47.5°	8379.6	3868.9	2354.5	2367.7	2463.2	2367.7	2357.5	2410.3	2507.3	2554.3	2564.6
50°	8215.1	3633.9	2248.8	2219.4	2245.8	2278.1	2287.0	2311.9	2419.1	2494.1	2511.7
52.5°	7987.4	3423.8	2113.6	2082.8	2082.8	2204.7	2245.8	2253.2	2344.2	2433.8	2451.5
55°	7798.0	3290.2	1974.1	1968.2	1962.3	2126.9	2197.4	2209.1	2272.3	2342.8	2351.6
57°	7811.2	3279.9	1866.9	1872.7	1871.3	2047.5	2151.8	2176.8	2209.1	2269.3	2279.6
57.5°	7818.5	3287.2	1843.4	1846.3	1844.8	2025.5	2138.6	2166.5	2191.5	2254.6	2264.9
60°	7928.7	3306.3	1747.9	1715.6	1722.9	1908.0	2063.7	2098.9	2115.1	2198.8	2212.0
62.5°	7765.7	3221.1	1671.5	1593.7	1593.7	1784.6	1959.4	2015.2	2040.2	2153.3	2175.3
65°	7292.7	2981.7	1581.9	1455.6	1470.3	1661.2	1834.6	1925.6	1963.8	2104.8	2128.3
67.5°	6562.7	2704.1	1486.4	1332.2	1346.9	1532.0	1705.3	1803.7	1863.9	2051.9	2071.0
70°	5612.4	2364.8	1357.2	1201.5	1219.1	1391.0	1552.5	1664.2	1753.8	2002.0	2007.9
72.5°	4137.7	1938.8	1176.5	1057.6	1076.6	1226.5	1398.3	1527.6	1648.0	1877.2	1874.2
75°	2460.3	1515.8	976.8	912.1	925.4	1064.9	1258.8	1415.9	1596.6	1828.7	1856.6
77.5°	1492.3	1141.3	796.1	763.8	779.9	922.4	1158.9	1326.3	1574.6	1724.4	1715.6
80°	901.9	815.2	636.0	615.4	631.6	788.8	1072.2	1258.8	1376.3	1473.2	1473.2
82.5°	471.5	497.9	467.1	450.9	473.0	640.4	975.3	1098.7	1216.2	1044.3	975.3
85°	192.4	260.0	283.5	282.0	295.2	443.6	841.6	940.0	784.4	744.7	762.3
87.5°	64.6	110.2	138.1	119.0	124.8	279.1	583.1	453.9	539.1	376.0	356.9
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)