

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: P321020

Luminaire Tested: **GAN-SA6D-750-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321020  
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-SA6D-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47609 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

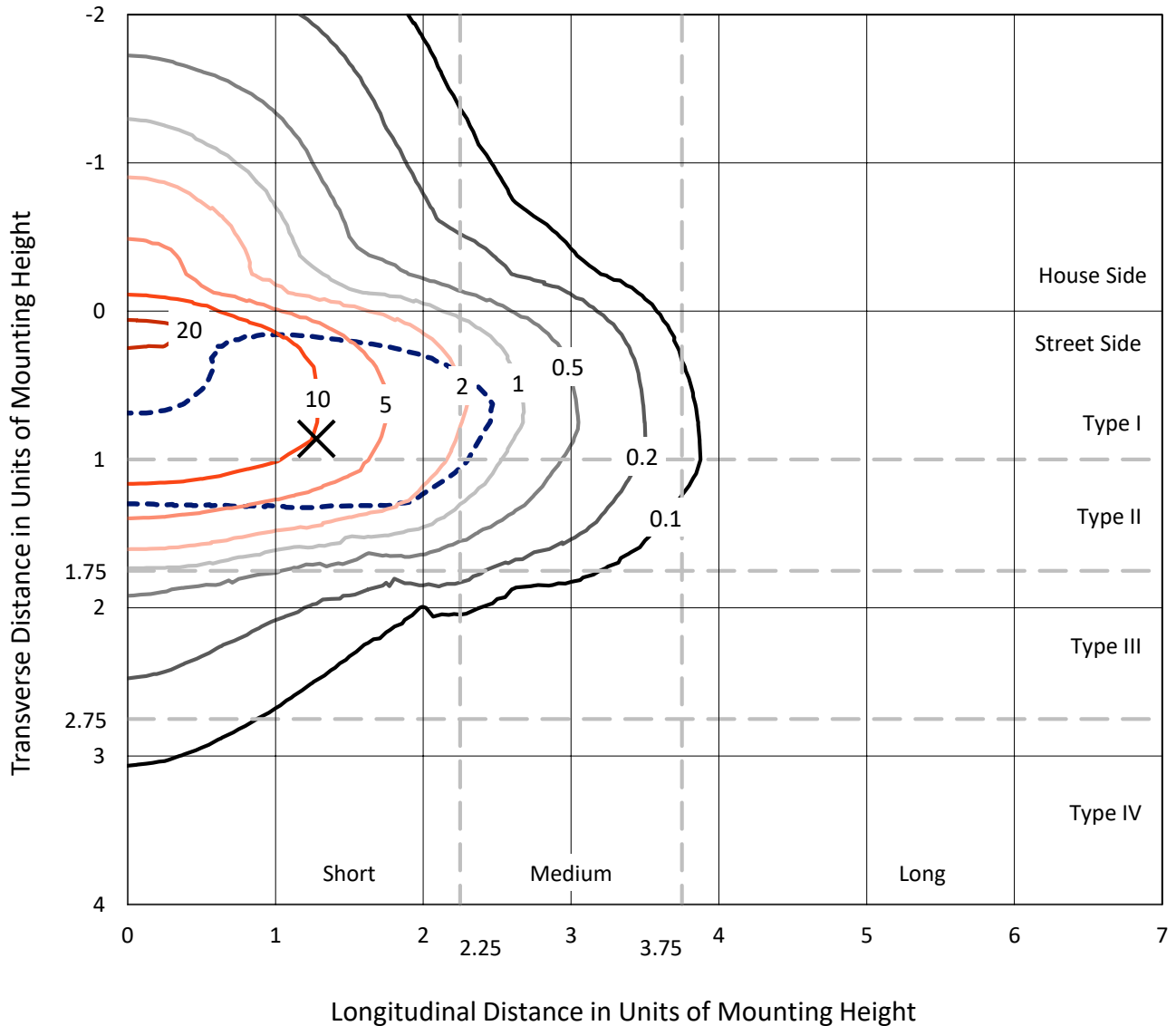
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

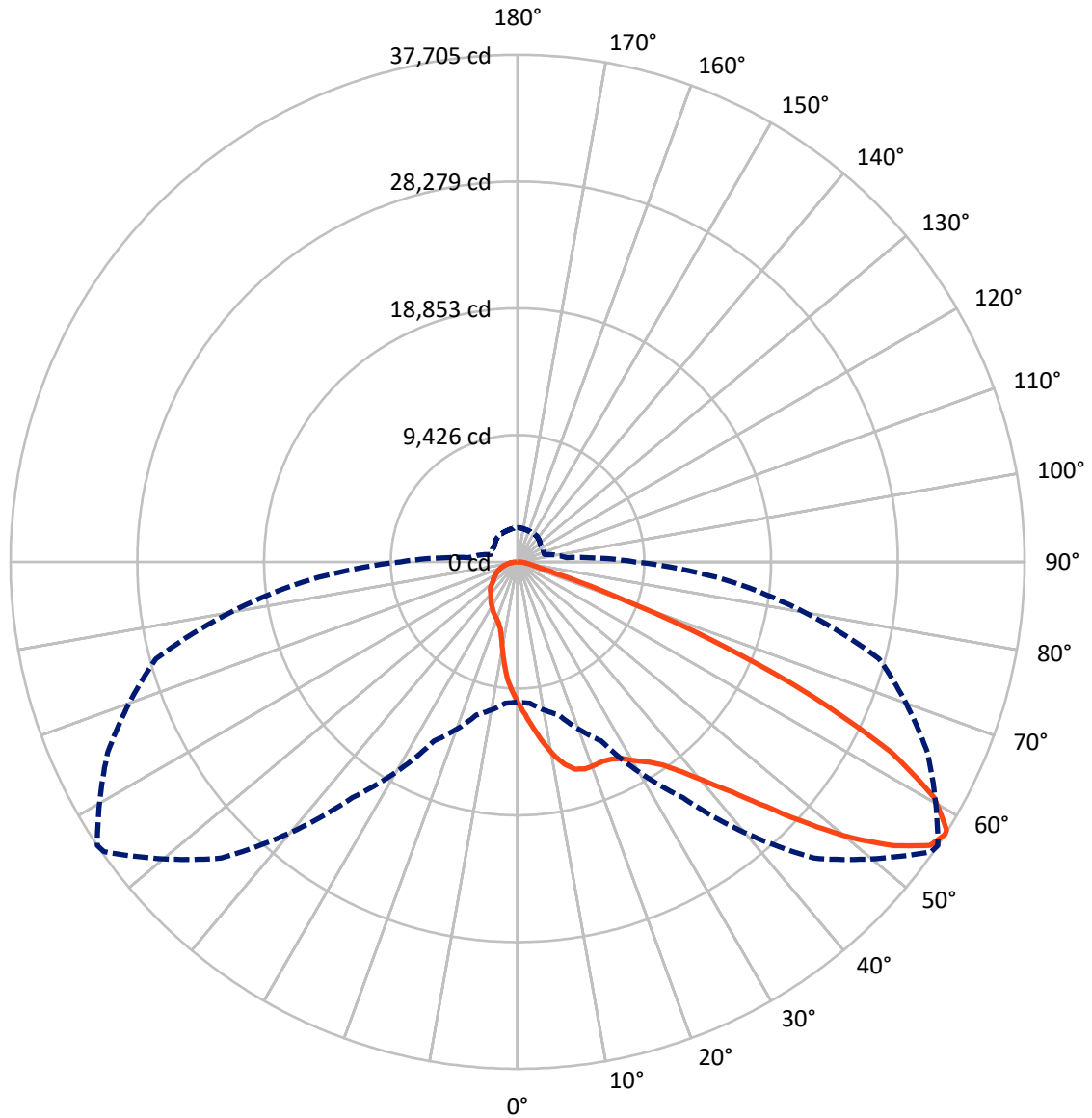
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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	8206.8	0.0	8206.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	39402.2	0.0	39402.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	47609.0	0.0	47609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1008.7	2.1
10°-20°	2851.9	6.0
20°-30°	4645.2	9.8
30°-40°	6944.0	14.6
40°-50°	10532.6	22.1
50°-60°	11805.2	24.8
60°-70°	6972.6	14.6
70°-80°	2284.5	4.8
80°-90°	564.4	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°	47609.0	100.0
0°-180°	47609.0	100.0

**Coefficient of Utilization**



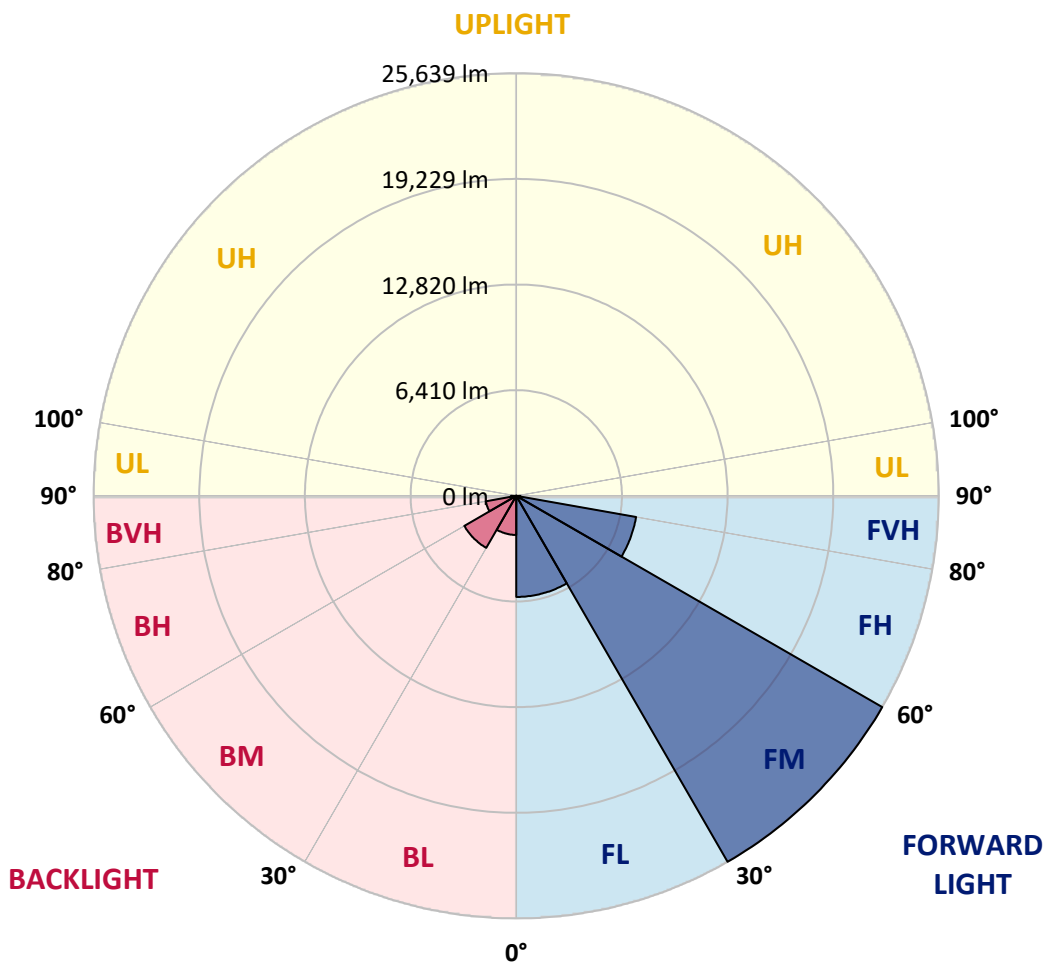
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6132.8	12.9			
FM (30°-60°)	25639.0	53.9			
FH (60°-80°)	7381.9	15.5			G3/7500
FVH (80°-90°)	248.5	0.5			G3/500
BL (0°-30°)	2373.0	5.0	B3/2500		
BM (30°-60°)	3642.7	7.7	B3/5000		
BH (60°-80°)	1875.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	315.9	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°	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7
2.5°	12125.5	12236.8	12187.7	12017.5	11886.6	11701.8	11495.6	11433.4	11215.8	10972.0	10679.2
5°	14044.7	13989.1	13908.9	13643.9	13364.1	13038.5	12521.5	12439.7	11955.4	11404.0	10821.5
7.5°	15137.7	15132.8	15085.3	14929.9	14674.6	14249.2	13625.9	13529.3	12798.0	11911.2	11008.0
10°	14979.0	14967.5	15046.0	15208.0	15284.9	15196.6	14671.4	14574.8	13676.6	12472.4	11224.0
12.5°	14077.4	14084.0	14210.0	14550.3	15013.3	15569.6	15484.5	15437.1	14587.9	13107.2	11485.8
15°	13375.5	13390.3	13490.1	13786.2	14332.7	15342.2	15978.7	15995.0	15469.8	13807.5	11791.7
17.5°	13067.9	13099.0	13144.8	13352.6	13853.3	14889.0	16096.5	16184.8	16242.1	14533.9	12086.2
20°	13166.1	13195.6	13208.6	13341.2	13751.9	14614.1	16014.6	16173.4	16834.4	15217.8	12380.8
22.5°	13606.2	13624.2	13632.4	13666.8	13985.8	14692.6	15960.7	16127.5	17263.0	15831.4	12603.3
25°	14336.0	14322.9	14270.5	14226.3	14440.7	15003.5	16085.0	16243.7	17611.5	16387.7	12748.9
27.5°	15209.7	15193.3	15091.9	14970.8	15093.5	15487.8	16443.3	16569.3	17924.0	16908.0	12822.5
30°	16258.4	16215.9	16024.5	15880.5	15927.9	16214.3	17034.0	17148.5	18406.7	17498.6	12894.5
32.5°	17470.8	17425.0	17148.5	16909.6	16909.6	17148.5	17642.6	17737.5	18815.7	18166.2	13010.7
35°	18989.2	18931.9	18572.0	18171.1	18058.2	18179.3	18472.1	18539.2	19552.0	19007.2	13221.7
37.5°	20779.1	20702.2	20235.9	19699.3	19452.2	19445.7	19656.7	19794.2	20728.4	20111.6	13580.1
40°	22574.0	22520.0	22112.6	21690.5	21206.2	21050.7	21376.3	21418.9	22266.4	21482.7	14038.2
42.5°	23961.4	23951.6	23876.4	23932.0	23436.2	23122.1	23377.3	23411.7	24144.7	22966.7	14525.7
45°	24694.4	24710.8	25075.7	25883.9	26067.2	25838.1	25964.1	25973.9	26291.3	24463.7	14972.4
47.5°	24107.1	24192.1	25114.9	26922.9	28423.2	29184.0	28974.6	29095.7	28372.5	25749.7	15322.6
50°	21818.1	21922.8	23493.5	26459.8	29522.7	32422.0	32312.3	32284.5	30051.2	26692.2	15512.3
52.5°	18982.6	19064.4	20360.3	24053.1	28716.1	34211.9	35218.2	35074.2	31543.4	27397.4	15548.3
55°	14664.8	14792.4	16034.3	19249.3	25453.6	33528.0	37355.0	37225.7	32903.0	27767.1	15505.8
57°	10425.6	10559.7	11793.4	14691.0	21412.3	31160.5	37567.7	37705.1	33637.6	27829.3	15553.3
57.5°	9303.2	9440.6	10662.8	13477.0	20152.5	30304.8	37384.4	37613.5	33770.2	27819.5	15579.4
60°	4684.3	4736.7	5515.5	7523.0	12739.1	24499.7	34994.0	35584.7	33889.6	27338.4	15692.3
62.5°	2912.3	2874.7	2850.2	3465.4	6197.7	16247.0	30061.0	31198.1	31603.9	26173.5	15419.1
65°	2560.6	2490.2	2220.3	2171.2	2737.3	7891.2	22637.8	24053.1	26720.0	24337.7	14767.9
67.5°	2405.1	2336.4	2032.1	1848.9	1850.5	3128.3	14054.5	15648.1	20815.1	21234.0	13231.6
70°	2244.8	2182.6	1897.9	1682.0	1575.6	1732.7	6466.1	7675.2	13568.6	16690.4	11058.7
72.5°	2038.6	1996.1	1726.1	1503.6	1390.7	1297.5	2475.5	2923.8	7855.2	11209.3	7680.1
75°	1822.7	1783.4	1552.7	1340.0	1202.6	1021.0	1394.0	1502.0	3990.6	5734.7	3781.1
77.5°	1585.4	1562.5	1380.9	1184.6	1075.0	845.9	986.6	1039.0	1711.4	2459.1	1896.3
80°	1261.5	1305.6	1207.5	1055.3	953.9	677.4	698.6	733.0	996.4	1200.9	1076.6
82.5°	821.3	898.2	945.7	857.3	785.4	533.4	502.3	517.0	649.6	733.0	467.9
85°	342.0	384.5	621.7	561.2	521.9	389.4	337.0	343.6	402.5	417.2	191.4
87.5°	152.2	162.0	273.2	256.9	220.9	134.2	144.0	157.1	214.3	202.9	73.6
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°	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7	10559.7
2.5°	10569.5	10432.1	10196.5	9936.3	9723.6	9553.5	9381.7	9263.9	9126.5	9052.8	9015.2
5°	10577.7	10307.8	9812.0	9303.2	8848.3	8432.7	8036.8	7732.5	7447.8	7294.0	7251.4
7.5°	10612.1	10206.3	9404.6	8566.9	7758.6	7020.7	6451.3	6094.7	5837.8	5723.3	5690.5
10°	10639.9	10086.9	8900.7	7660.5	6561.0	5813.2	5371.5	5171.9	5083.5	5068.8	5054.1
12.5°	10705.3	9964.2	8370.5	6714.8	5630.0	5113.0	4959.2	4946.1	4970.6	5006.6	5006.6
15°	10808.4	9843.1	7765.2	5903.2	5037.7	4856.1	4887.2	4959.2	5026.3	5081.9	5090.1
17.5°	10883.7	9694.2	7114.0	5253.7	4721.9	4771.0	4882.3	4983.7	5052.4	5106.4	5111.3
20°	10937.7	9463.5	6418.6	4757.9	4540.3	4692.5	4831.6	4921.5	4969.0	5023.0	5031.2
22.5°	10909.9	9154.3	5801.8	4402.9	4393.1	4578.0	4710.5	4818.5	4782.5	4730.1	4764.5
25°	10775.7	8728.9	5167.0	4137.8	4237.6	4424.2	4587.8	4515.8	4394.7	4371.8	4384.9
27.5°	10536.8	8185.7	4579.6	3892.4	4057.7	4281.8	4272.0	4200.0	4157.5	4128.0	4146.0
30°	10279.9	7596.6	4065.8	3678.1	3858.0	4042.9	4005.3	4003.7	3961.1	3913.7	3936.6
32.5°	10026.3	7004.4	3658.4	3501.4	3707.5	3732.1	3813.9	3838.4	3755.0	3655.2	3648.6
35°	9805.5	6444.8	3349.2	3341.0	3525.9	3529.2	3648.6	3614.3	3406.5	3303.4	3303.4
37.5°	9640.2	5886.9	3113.6	3197.0	3287.0	3372.1	3432.6	3290.3	3255.9	3198.7	3197.0
40°	9568.2	5396.0	2966.3	3087.4	3118.5	3226.5	3071.1	3126.7	3143.0	3113.6	3113.6
42.5°	9492.9	4969.0	2838.7	3004.0	2999.1	2984.3	2905.8	2977.8	3043.2	3044.9	3040.0
45°	9417.7	4600.9	2725.8	2825.6	2894.4	2735.6	2750.4	2827.3	2918.9	2951.6	2951.6
47.5°	9334.2	4309.6	2622.8	2637.5	2743.8	2637.5	2626.0	2684.9	2792.9	2845.3	2856.7
50°	9151.0	4047.8	2504.9	2472.2	2501.7	2537.7	2547.5	2575.3	2694.7	2778.2	2797.8
52.5°	8897.4	3813.9	2354.4	2320.1	2320.1	2455.9	2501.7	2509.9	2611.3	2711.1	2730.7
55°	8686.3	3665.0	2199.0	2192.4	2185.9	2369.1	2447.7	2460.8	2531.1	2609.7	2619.5
57°	8701.1	3653.5	2079.5	2086.1	2084.5	2280.8	2397.0	2424.8	2460.8	2527.9	2539.3
57.5°	8709.2	3661.7	2053.4	2056.6	2055.0	2256.3	2382.2	2413.3	2441.1	2511.5	2522.9
60°	8831.9	3683.0	1947.0	1911.0	1919.2	2125.4	2298.8	2338.1	2356.1	2449.3	2464.0
62.5°	8650.3	3588.1	1861.9	1775.2	1775.2	1987.9	2182.6	2244.8	2272.6	2398.6	2423.1
65°	8123.5	3321.4	1762.1	1621.4	1637.8	1850.5	2043.6	2145.0	2187.5	2344.6	2370.8
67.5°	7310.3	3012.2	1655.8	1484.0	1500.4	1706.5	1899.6	2009.2	2076.3	2285.7	2307.0
70°	6251.7	2634.2	1511.8	1338.4	1358.0	1549.4	1729.4	1853.8	1953.6	2230.1	2236.6
72.5°	4609.0	2159.7	1310.6	1178.0	1199.3	1366.2	1557.6	1701.6	1835.8	2091.0	2087.7
75°	2740.6	1688.5	1088.0	1016.0	1030.8	1186.2	1402.2	1577.2	1778.5	2037.0	2068.1
77.5°	1662.3	1271.3	886.8	850.8	868.8	1027.5	1290.9	1477.4	1754.0	1920.8	1911.0
80°	1004.6	908.1	708.5	685.5	703.5	878.6	1194.4	1402.2	1533.1	1641.1	1641.1
82.5°	525.2	554.7	520.3	502.3	526.8	713.4	1086.4	1223.8	1354.7	1163.3	1086.4
85°	214.3	289.6	315.8	314.1	328.9	494.1	937.5	1047.1	873.7	829.5	849.2
87.5°	72.0	122.7	153.8	132.5	139.1	310.9	649.6	505.6	600.5	418.9	397.6
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)