

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: P320953

Luminaire Tested: **GAN-SA9A-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320953  
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-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42742 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

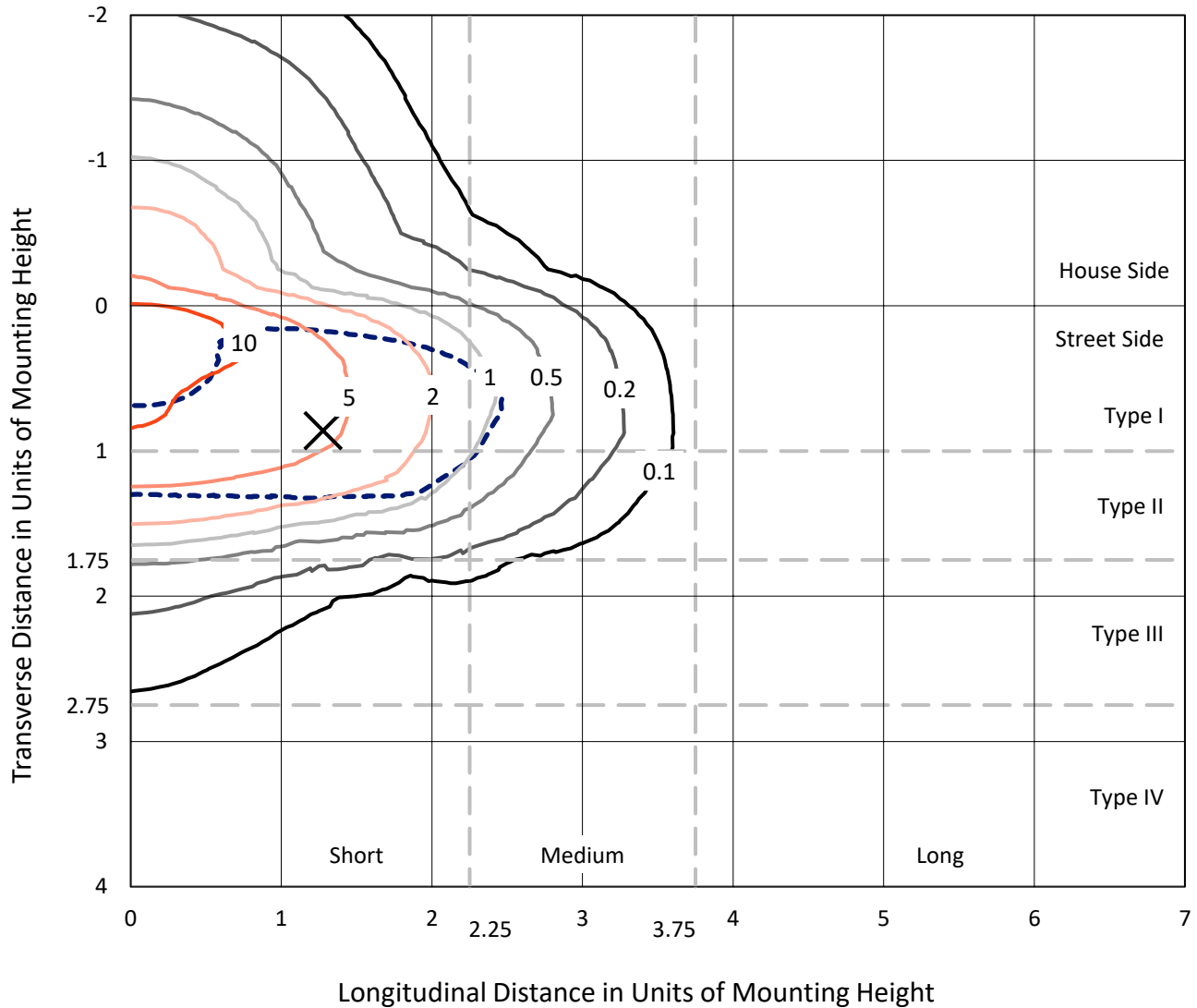
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

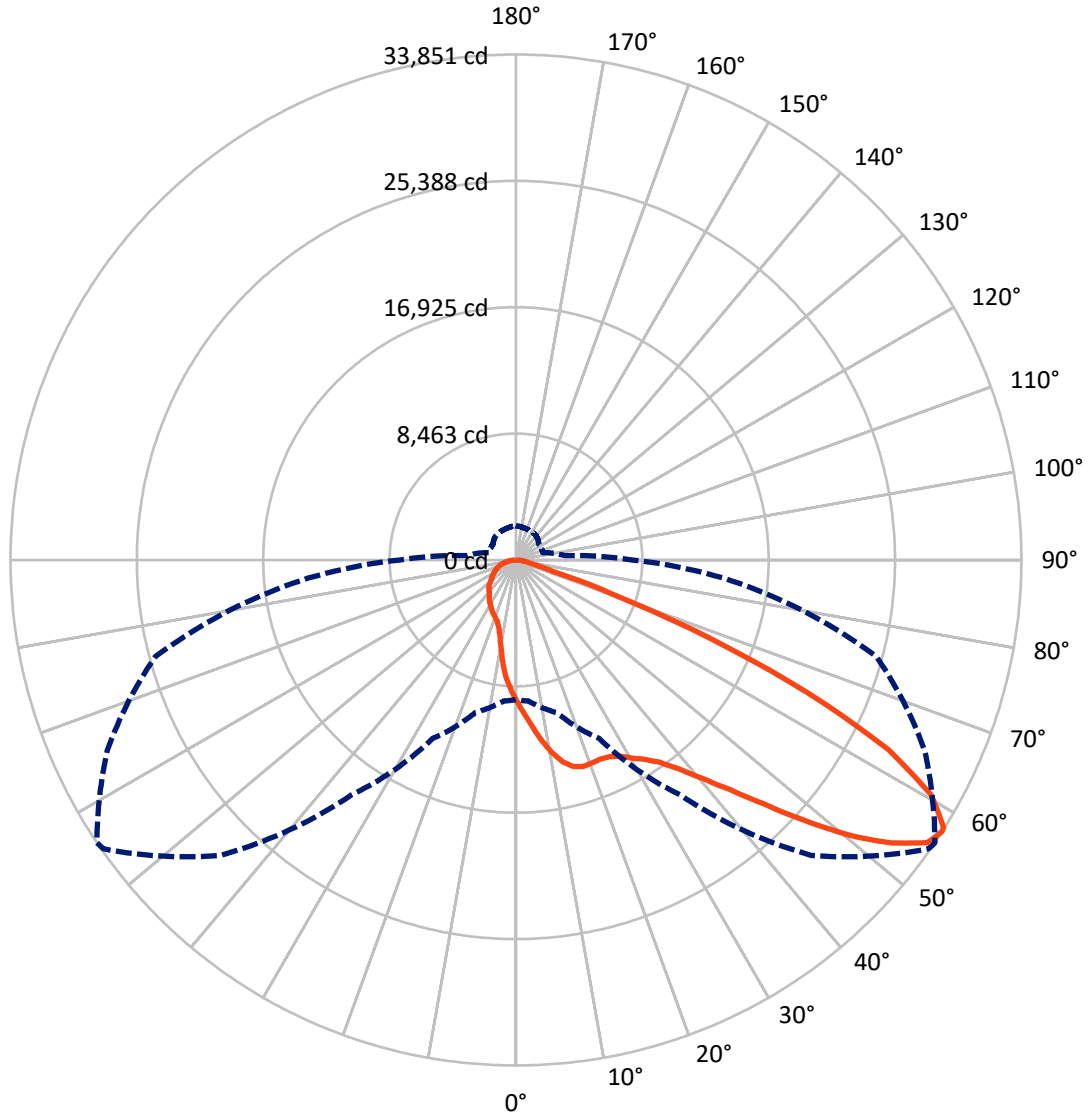
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.6 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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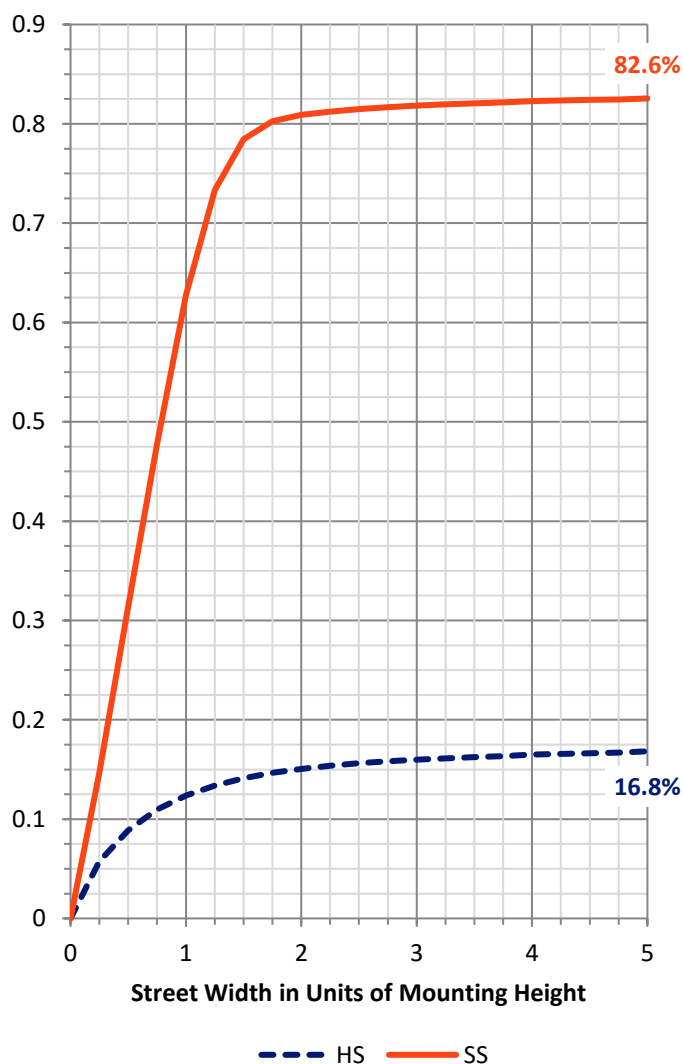
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7367.8	0.0	7367.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	35374.2	0.0	35374.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	42742.0	0.0	42742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.6	2.1
10°-20°	2560.3	6.0
20°-30°	4170.3	9.8
30°-40°	6234.1	14.6
40°-50°	9455.8	22.1
50°-60°	10598.3	24.8
60°-70°	6259.8	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°	42742.0	100.0
0°-180°	42742.0	100.0

**Coefficient of Utilization**

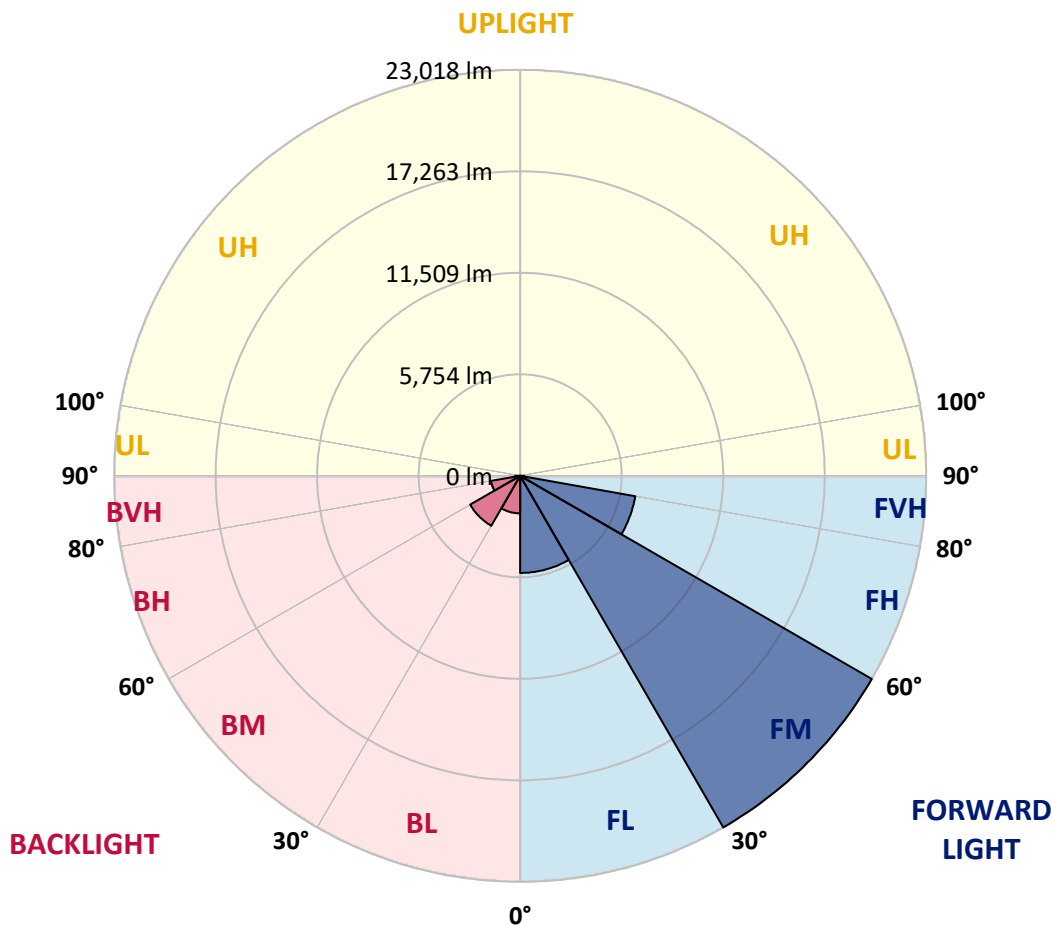


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5505.8	12.9			
FM (30°-60°)	23018.0	53.9			
FH (60°-80°)	6627.3	15.5			G3/7500
FVH (80°-90°)	223.1	0.5			G2/225
BL (0°-30°)	2130.4	5.0	B3/2500		
BM (30°-60°)	3270.3	7.7	B3/5000		
BH (60°-80°)	1683.5	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°	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2
2.5°	10885.9	10985.8	10941.8	10789.0	10671.5	10505.5	10320.4	10264.6	10069.2	9850.4	9587.4
5°	12608.9	12559.0	12487.0	12249.1	11997.9	11705.6	11241.4	11168.0	10733.2	10238.2	9715.2
7.5°	13590.2	13585.8	13543.2	13403.6	13174.5	12792.6	12232.9	12146.2	11489.7	10693.5	9882.7
10°	13447.7	13437.4	13507.9	13653.3	13722.4	13643.0	13171.5	13084.9	12278.4	11197.3	10076.6
12.5°	12638.3	12644.2	12757.3	13062.8	13478.5	13978.0	13901.6	13859.0	13096.6	11767.3	10311.6
15°	12008.2	12021.4	12111.0	12376.9	12867.5	13773.8	14345.2	14359.9	13888.4	12396.0	10586.3
17.5°	11732.0	11759.9	11801.1	11987.6	12437.1	13366.9	14450.9	14530.3	14581.7	13048.1	10850.7
20°	11820.2	11846.6	11858.3	11977.3	12346.0	13120.1	14377.5	14520.0	15113.4	13662.1	11115.1
22.5°	12215.3	12231.4	12238.8	12269.6	12556.1	13190.6	14329.0	14478.8	15498.3	14213.0	11314.9
25°	12870.4	12858.7	12811.7	12772.0	12964.4	13469.7	14440.7	14583.1	15811.1	14712.4	11445.6
27.5°	13654.8	13640.1	13549.0	13440.3	13550.5	13904.5	14762.3	14875.4	16091.7	15179.5	11511.7
30°	14596.4	14558.2	14386.3	14257.0	14299.6	14556.7	15292.6	15395.4	16525.0	15709.8	11576.3
32.5°	15684.8	15643.7	15395.4	15181.0	15181.0	15395.4	15839.0	15924.2	16892.2	16309.1	11680.6
35°	17047.9	16996.5	16673.4	16313.5	16212.1	16320.8	16583.8	16644.0	17553.2	17064.1	11870.1
37.5°	18654.9	18585.9	18167.2	17685.4	17463.6	17457.8	17647.2	17770.6	18609.4	18055.6	12191.8
40°	20266.3	20217.8	19852.0	19473.1	19038.3	18898.7	19191.0	19229.2	19990.1	19286.5	12603.1
42.5°	21511.9	21503.1	21435.5	21485.5	21040.4	20758.4	20987.5	21018.3	21676.4	20618.8	13040.8
45°	22170.0	22184.6	22512.2	23237.8	23402.4	23196.7	23309.8	23318.6	23603.6	21962.8	13441.8
47.5°	21642.6	21719.0	22547.5	24170.6	25517.6	26200.6	26012.6	26121.3	25472.0	23117.4	13756.2
50°	19587.6	19681.7	21091.8	23754.9	26504.6	29107.5	29009.1	28984.1	26979.1	23963.5	13926.5
52.5°	17042.1	17115.5	18278.9	21594.1	25780.5	30714.5	31617.9	31488.6	28318.7	24596.6	13958.9
55°	13165.7	13280.2	14395.1	17281.5	22851.5	30100.5	33536.2	33420.2	29539.4	24928.5	13920.7
57°	9359.8	9480.2	10587.8	13189.2	19223.4	27975.0	33727.2	33850.6	30198.9	24984.3	13963.3
57.5°	8352.1	8475.5	9572.8	12099.2	18092.3	27206.8	33562.7	33768.3	30317.9	24975.5	13986.8
60°	4205.4	4252.4	4951.6	6754.0	11436.8	21995.2	31416.6	31946.9	30425.1	24543.7	14088.1
62.5°	2614.6	2580.8	2558.8	3111.1	5564.2	14586.1	26987.9	28008.8	28373.1	23497.8	13842.8
65°	2298.8	2235.7	1993.3	1949.2	2457.5	7084.5	20323.6	21594.1	23988.4	21849.7	13258.2
67.5°	2159.3	2097.6	1824.4	1659.8	1661.3	2808.5	12617.8	14048.5	18687.2	19063.3	11878.9
70°	2015.3	1959.5	1703.9	1510.0	1414.5	1555.6	5805.1	6890.6	12181.5	14984.1	9928.2
72.5°	1830.2	1792.0	1549.7	1349.9	1248.6	1164.8	2222.4	2624.9	7052.1	10063.4	6895.0
75°	1636.3	1601.1	1394.0	1203.0	1079.6	916.6	1251.5	1348.4	3582.6	5148.5	3394.6
77.5°	1423.4	1402.8	1239.7	1063.5	965.1	759.4	885.7	932.7	1536.5	2207.7	1702.4
80°	1132.5	1172.2	1084.0	947.4	856.4	608.1	627.2	658.1	894.6	1078.2	966.5
82.5°	737.4	806.4	849.0	769.7	705.1	478.9	450.9	464.2	583.1	658.1	420.1
85°	307.0	345.2	558.2	503.8	468.6	349.6	302.6	308.5	361.3	374.6	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°	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2	9480.2
2.5°	9489.0	9365.6	9154.1	8920.6	8729.6	8576.8	8422.6	8316.9	8193.5	8127.4	8093.6
5°	9496.4	9254.0	8808.9	8352.1	7943.8	7570.7	7215.2	6942.0	6686.4	6548.3	6510.1
7.5°	9527.2	9162.9	8443.2	7691.1	6965.5	6303.0	5791.8	5471.6	5241.0	5138.2	5108.8
10°	9552.2	9055.7	7990.8	6877.3	5890.2	5219.0	4822.4	4643.2	4563.8	4550.6	4537.4
12.5°	9610.9	8945.5	7514.8	6028.3	5054.4	4590.3	4452.2	4440.5	4462.5	4494.8	4494.8
15°	9703.5	8836.8	6971.4	5299.8	4522.7	4359.7	4387.6	4452.2	4512.4	4562.4	4569.7
17.5°	9771.1	8703.2	6386.7	4716.6	4239.2	4283.3	4383.2	4474.2	4535.9	4584.4	4588.8
20°	9819.5	8496.1	5762.5	4271.5	4076.2	4212.8	4337.6	4418.4	4461.0	4509.5	4516.8
22.5°	9794.6	8218.4	5208.7	3952.8	3944.0	4110.0	4228.9	4325.9	4293.6	4246.6	4277.4
25°	9674.1	7836.5	4638.8	3714.8	3804.4	3971.9	4118.8	4054.1	3945.4	3924.9	3936.6
27.5°	9459.7	7348.9	4111.4	3494.5	3642.8	3844.1	3835.3	3770.6	3732.4	3706.0	3722.2
30°	9229.0	6820.1	3650.2	3302.1	3463.6	3629.6	3595.8	3594.4	3556.2	3513.6	3534.1
32.5°	9001.4	6288.3	3284.4	3143.4	3328.5	3350.5	3424.0	3446.0	3371.1	3281.5	3275.6
35°	8803.1	5786.0	3006.8	2999.5	3165.5	3168.4	3275.6	3244.8	3058.2	2965.7	2965.7
37.5°	8654.7	5285.1	2795.3	2870.2	2951.0	3027.4	3081.7	2953.9	2923.1	2871.7	2870.2
40°	8590.1	4844.4	2663.1	2771.8	2799.7	2896.7	2757.1	2807.0	2821.7	2795.3	2795.3
42.5°	8522.5	4461.0	2548.5	2696.9	2692.5	2679.3	2608.7	2673.4	2732.1	2733.6	2729.2
45°	8454.9	4130.5	2447.2	2536.8	2598.5	2456.0	2469.2	2538.2	2620.5	2649.9	2649.9
47.5°	8380.0	3869.1	2354.6	2367.9	2463.3	2367.9	2357.6	2410.4	2507.4	2554.4	2564.7
50°	8215.5	3634.0	2248.9	2219.5	2245.9	2278.2	2287.1	2312.0	2419.3	2494.2	2511.8
52.5°	7987.8	3424.0	2113.7	2082.9	2082.9	2204.8	2245.9	2253.3	2344.3	2434.0	2451.6
55°	7798.3	3290.3	1974.2	1968.3	1962.4	2127.0	2197.5	2209.2	2272.4	2342.9	2351.7
57°	7811.6	3280.0	1867.0	1872.8	1871.4	2047.6	2151.9	2176.9	2209.2	2269.4	2279.7
57.5°	7818.9	3287.4	1843.5	1846.4	1844.9	2025.6	2138.7	2166.6	2191.6	2254.7	2265.0
60°	7929.1	3306.5	1748.0	1715.7	1723.0	1908.1	2063.8	2099.0	2115.2	2198.9	2212.1
62.5°	7766.0	3221.3	1671.6	1593.7	1593.7	1784.7	1959.5	2015.3	2040.3	2153.4	2175.4
65°	7293.0	2981.8	1582.0	1455.7	1470.4	1661.3	1834.6	1925.7	1963.9	2104.9	2128.4
67.5°	6563.0	2704.2	1486.5	1332.3	1347.0	1532.1	1705.4	1803.8	1864.0	2052.0	2071.1
70°	5612.6	2364.9	1357.3	1201.6	1219.2	1391.0	1552.6	1664.3	1753.9	2002.1	2008.0
72.5°	4137.9	1938.9	1176.6	1057.6	1076.7	1226.5	1398.4	1527.6	1648.1	1877.2	1874.3
75°	2460.4	1515.9	976.8	912.2	925.4	1064.9	1258.8	1416.0	1596.7	1828.8	1856.7
77.5°	1492.4	1141.3	796.1	763.8	780.0	922.5	1159.0	1326.4	1574.6	1724.5	1715.7
80°	901.9	815.2	636.0	615.5	631.6	788.8	1072.3	1258.8	1376.3	1473.3	1473.3
82.5°	471.5	498.0	467.1	450.9	473.0	640.4	975.3	1098.7	1216.2	1044.4	975.3
85°	192.4	260.0	283.5	282.0	295.2	443.6	841.7	940.1	784.4	744.7	762.4
87.5°	64.6	110.2	138.1	119.0	124.9	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)