

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: P317793

Luminaire Tested: **GAN-SA9A-750-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-750-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42597 lumens  
Efficiency: N/A  
Efficacy: 146.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

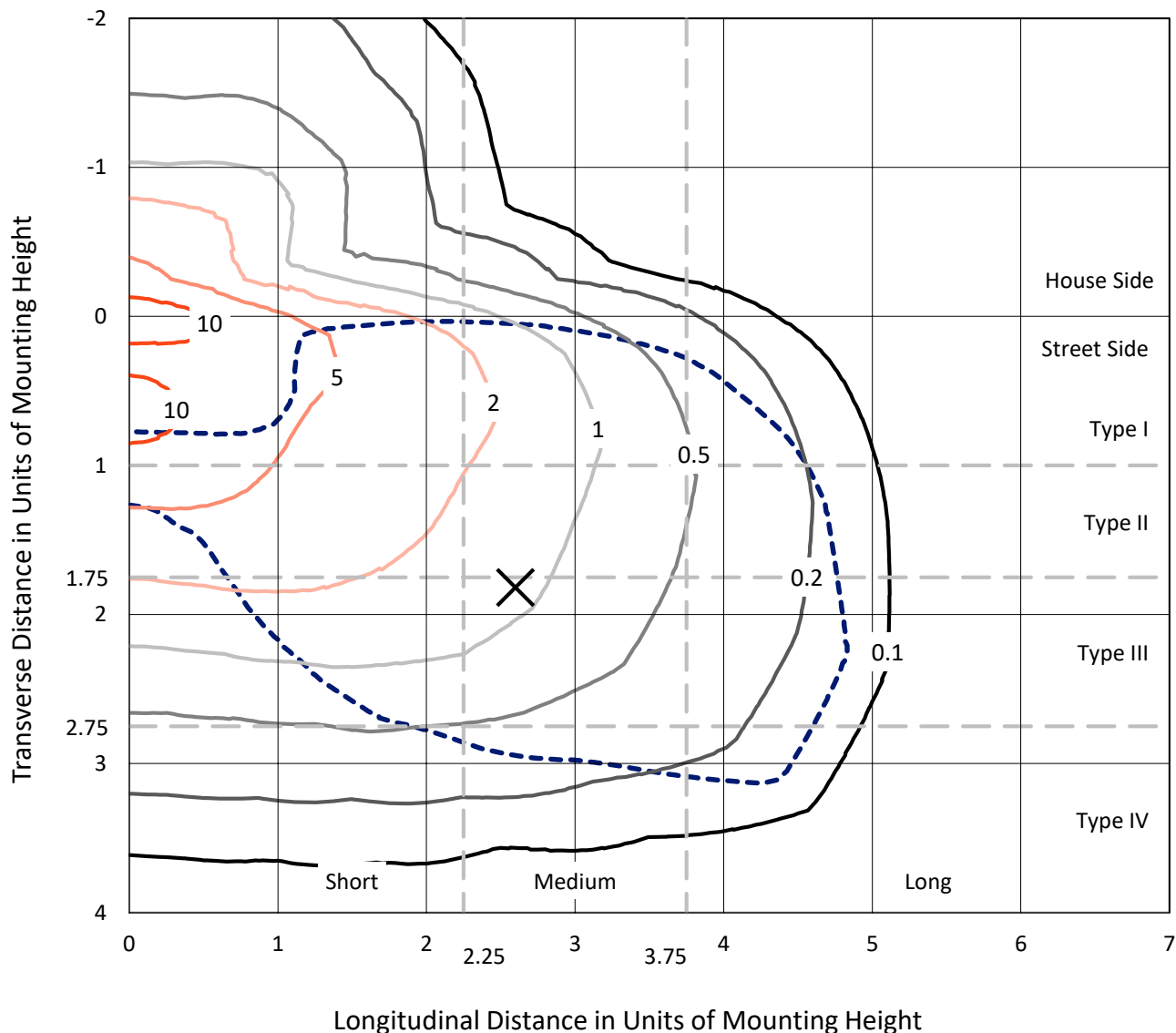
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

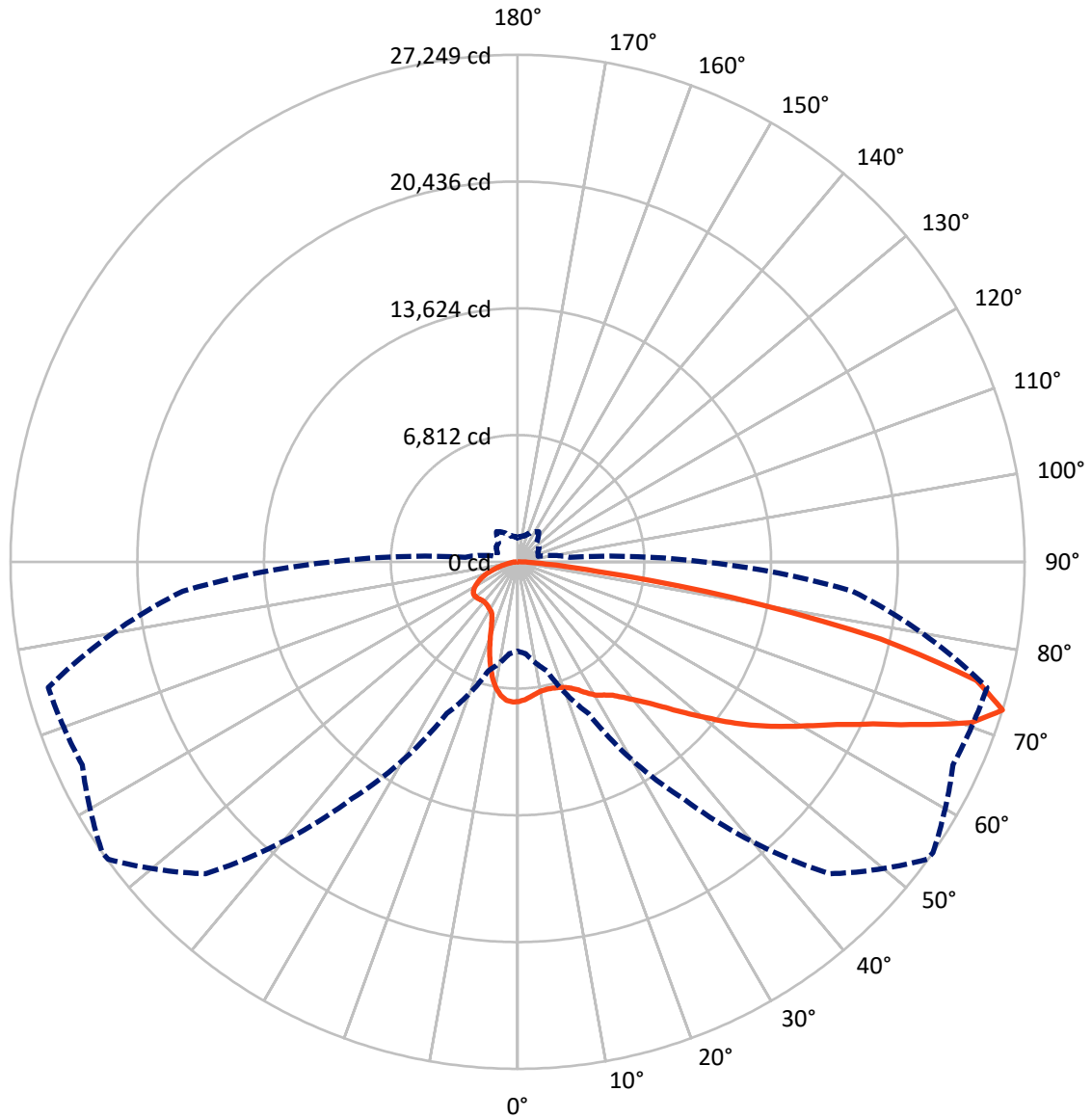
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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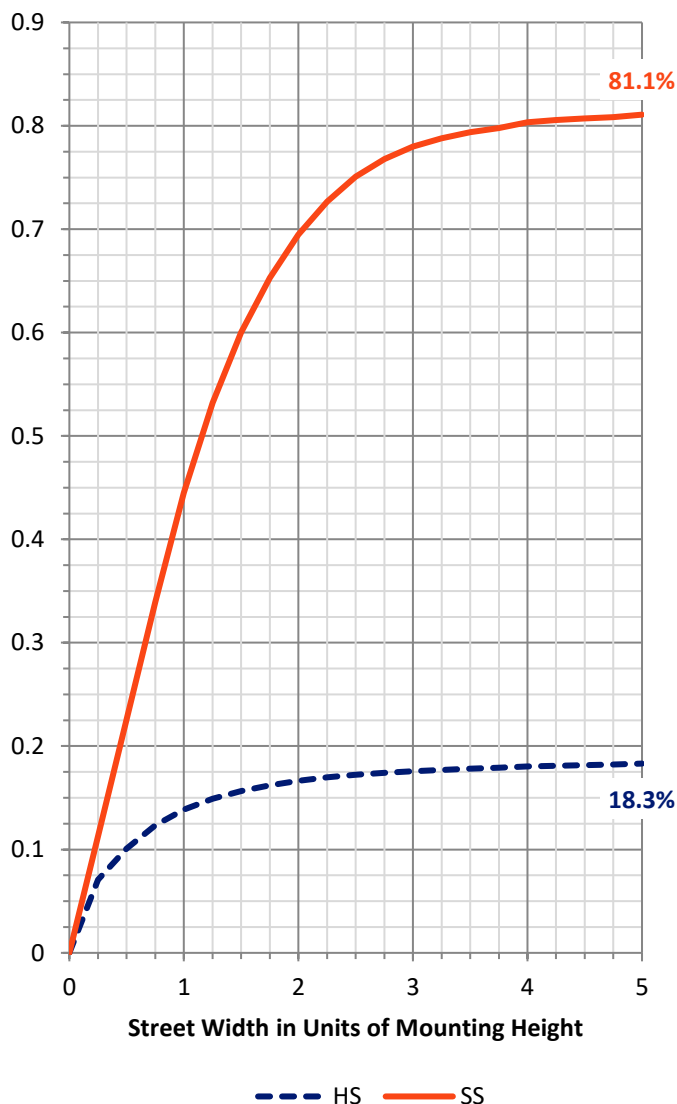
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7917.4	0.0	7917.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	34679.6	0.0	34679.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	42597.0	0.0	42597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.9	1.6
10°-20°	1810.0	4.2
20°-30°	2984.3	7.0
30°-40°	4414.5	10.4
40°-50°	6161.7	14.5
50°-60°	8022.8	18.8
60°-70°	9859.7	23.1
70°-80°	7728.8	18.1
80°-90°	935.3	2.2
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°	42597.0	100.0
0°-180°	42597.0	100.0

**Coefficient of Utilization**

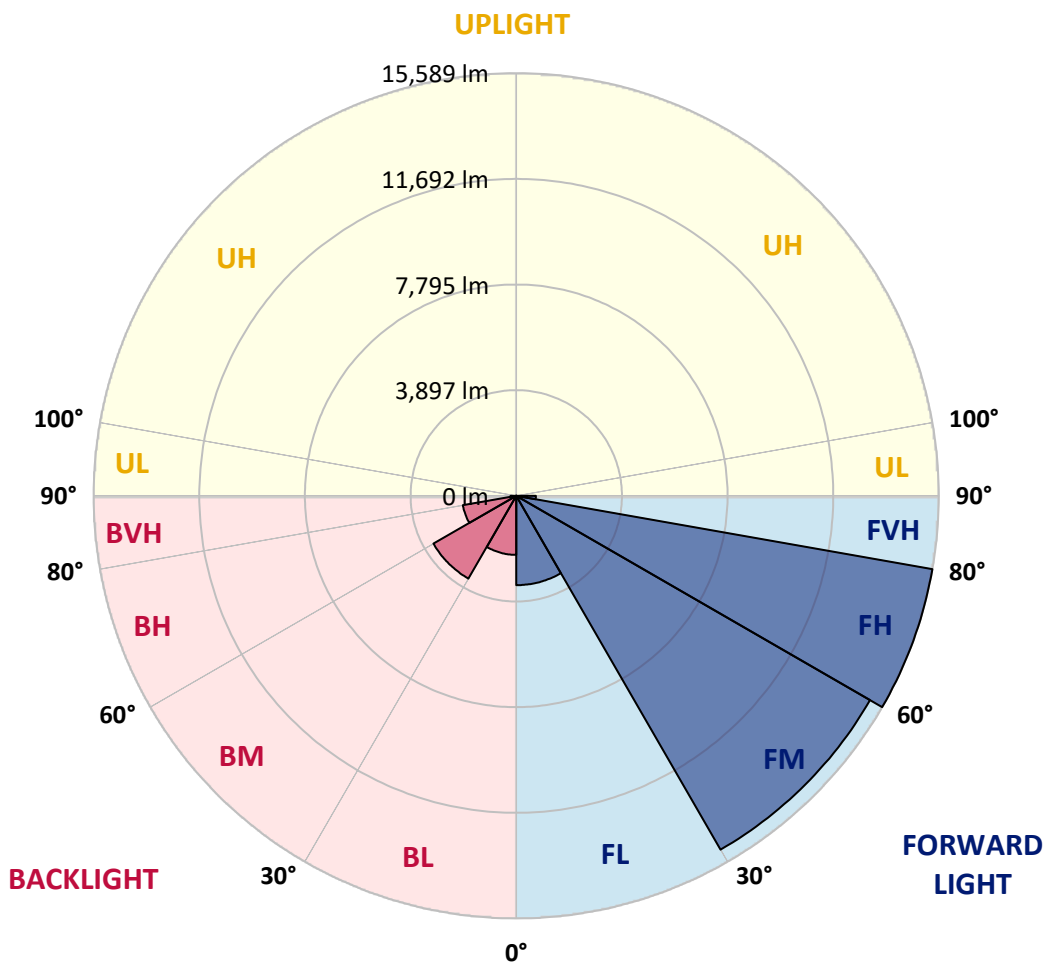


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3295.8	7.7			
FM (30°-60°)	15071.7	35.4			
FH (60°-80°)	15589.1	36.6			G5
FVH (80°-90°)	723.1	1.7			G4/750
BL (0°-30°)	2178.4	5.1	B3/2500		
BM (30°-60°)	3527.3	8.3	B3/5000		
BH (60°-80°)	1999.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	212.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2
2.5°	7268.6	7251.3	7272.9	7303.1	7336.2	7380.8	7406.7	7418.2	7462.8	7480.1	7517.5
5°	6931.9	6923.3	6959.3	7011.1	7084.4	7188.0	7271.5	7287.3	7405.3	7488.7	7565.0
7.5°	6687.3	6687.3	6729.1	6790.9	6872.9	7012.5	7130.5	7152.1	7352.1	7531.9	7672.9
10°	6493.1	6500.3	6549.2	6622.6	6719.0	6867.2	7024.0	7048.5	7337.7	7632.6	7857.1
12.5°	6363.6	6380.9	6425.5	6491.7	6611.1	6790.9	6989.5	7022.6	7367.9	7776.5	8078.6
15°	6445.6	6474.4	6478.7	6506.1	6572.2	6767.9	7009.6	7044.2	7432.6	7923.2	8330.4
17.5°	6805.3	6815.4	6770.8	6713.2	6681.6	6806.8	7070.1	7106.0	7510.3	8068.6	8572.1
20°	7352.1	7346.3	7249.9	7094.5	6933.4	6953.5	7169.3	7206.7	7615.3	8196.6	8813.8
22.5°	8042.7	8022.5	7874.3	7588.0	7313.2	7198.1	7343.4	7375.1	7773.6	8379.3	9072.8
25°	8880.0	8835.4	8639.7	8255.6	7851.3	7554.9	7605.3	7635.5	8003.8	8583.6	9310.2
27.5°	9763.4	9718.8	9469.9	9005.2	8467.1	8005.2	7966.4	7992.3	8265.7	8734.7	9485.7
30°	10687.1	10639.6	10412.3	9891.5	9120.3	8471.4	8303.1	8313.1	8449.8	8816.7	9629.6
32.5°	11615.1	11570.5	11315.8	10711.6	9829.6	8972.1	8546.2	8533.3	8560.6	8901.6	9792.2
35°	12556.0	12573.3	12275.5	11606.5	10615.2	9528.9	8834.0	8806.6	8746.2	9075.7	10022.4
37.5°	13563.2	13551.7	13166.1	12466.8	11436.7	10133.2	9246.9	9242.6	9034.0	9405.2	10383.5
40°	14236.5	14243.7	14009.2	13347.4	12266.9	10802.2	9776.4	9766.3	9492.9	9898.7	10856.9
42.5°	14499.8	14547.3	14607.7	14187.6	13135.9	11577.7	10408.0	10393.6	10133.2	10606.5	11413.7
45°	14518.5	14613.5	14987.5	14934.3	14016.4	12465.4	11215.1	11174.8	10987.8	11547.5	12078.4
47.5°	14357.4	14455.2	15076.7	15378.9	14803.4	13402.0	12158.9	12127.3	11966.2	12724.4	12797.8
50°	14004.9	14098.4	14892.6	15596.1	15450.8	14302.7	13246.6	13163.2	13076.9	14084.0	13620.7
52.5°	13344.5	13524.3	14646.6	15647.9	15837.8	15102.6	14390.5	14335.8	14383.3	15518.4	14445.1
55°	11780.6	11982.0	14012.1	15604.8	16124.2	15774.5	15534.3	15531.4	15777.4	17023.4	15330.0
57.5°	10904.3	11046.8	12720.1	15531.4	16463.7	16442.1	16666.6	16693.9	17173.0	18662.1	16256.5
60°	10409.4	10559.0	12065.4	15259.5	16990.3	17305.4	17821.9	17876.6	18591.6	20476.4	17371.6
62.5°	9959.1	10123.1	11659.7	14705.5	17610.4	18539.8	19206.0	19254.9	20093.7	22341.0	18449.2
65°	9189.3	9374.9	11065.5	14341.5	18174.4	20149.8	20965.6	20998.7	21818.8	24294.9	19273.6
67.5°	8101.6	8271.4	9944.7	13537.3	18591.6	22105.1	23305.0	23323.7	23529.4	25674.6	19695.2
70°	6831.2	6896.0	8347.7	11876.9	18098.1	23933.7	25868.9	25873.2	25089.1	26558.0	19626.1
72.5°	4799.7	4952.2	6060.0	8990.8	15553.0	23710.7	27199.7	27248.6	25814.2	26112.0	18057.9
75°	2943.7	3104.8	3801.2	5448.6	9867.0	18647.7	25130.8	25470.3	24454.6	23282.0	14751.6
77.5°	1968.2	2028.6	2480.4	3176.8	4470.2	10728.8	19321.1	19959.9	20315.3	16978.8	9433.9
80°	1097.8	1212.9	1644.5	1974.0	1988.4	4263.0	11584.9	11734.5	11302.9	6760.7	2910.6
82.5°	581.3	644.6	1097.8	1159.6	1084.8	1427.2	4317.7	4322.0	3611.3	1812.8	864.7
85°	450.3	503.6	752.5	707.9	553.9	633.1	1424.4	1502.1	1228.7	742.4	282.0
87.5°	224.4	279.1	510.8	448.9	217.3	181.3	509.3	543.9	484.9	290.6	102.2
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°	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2	7513.2
2.5°	7531.9	7544.8	7560.7	7543.4	7537.7	7514.6	7475.8	7467.2	7447.0	7448.5	7460.0
5°	7598.1	7619.7	7611.0	7544.8	7465.7	7354.9	7239.8	7142.0	7077.3	7072.9	7068.6
7.5°	7724.7	7739.1	7671.5	7483.0	7261.4	7005.3	6763.6	6552.1	6424.1	6392.4	6385.2
10°	7923.2	7920.4	7734.8	7354.9	6913.2	6455.7	6067.2	5773.7	5602.5	5552.2	5539.2
12.5°	8144.8	8111.7	7756.3	7121.9	6421.2	5786.7	5294.6	4968.0	4789.6	4732.1	4717.7
15°	8373.6	8291.6	7703.1	6773.7	5816.9	5065.9	4549.4	4247.2	4150.8	4119.2	4113.4
17.5°	8586.5	8428.2	7550.6	6301.8	5127.7	4347.9	3945.1	3824.2	3847.2	3889.0	3890.4
20°	8795.1	8520.3	7306.0	5706.1	4401.2	3756.6	3619.9	3709.1	3818.5	3903.4	3914.9
22.5°	9000.9	8585.1	6990.9	5018.4	3750.8	3424.2	3520.6	3683.2	3808.4	3900.5	3916.3
25°	9173.5	8600.9	6556.4	4284.6	3299.1	3299.1	3473.2	3627.1	3750.8	3841.5	3857.3
27.5°	9236.8	8494.4	5943.5	3605.5	3071.7	3241.5	3407.0	3535.0	3640.1	3736.5	3753.7
30°	9261.3	8297.3	5235.6	3060.2	2978.2	3179.7	3317.8	3427.1	3526.4	3617.0	3632.9
32.5°	9265.6	8059.9	4484.6	2750.9	2913.5	3114.9	3207.0	3303.4	3409.9	3445.8	3451.6
35°	9292.9	7779.4	3693.3	2592.6	2853.1	3054.5	3127.9	3196.9	3024.3	3037.2	3048.7
37.5°	9372.1	7501.7	3031.5	2503.4	2814.2	3022.8	3110.6	2860.3	2725.0	2693.4	2689.0
40°	9520.3	7205.3	2540.8	2431.5	2799.8	3038.7	2999.8	2670.3	2437.3	2263.2	2237.3
42.5°	9726.0	6885.9	2227.2	2384.0	2809.9	3114.9	2845.9	2487.6	2100.6	1988.4	1974.0
45°	9957.6	6550.7	2057.4	2350.9	2844.4	3173.9	2814.2	2244.5	1943.8	1858.9	1851.7
47.5°	10182.1	6140.6	1969.7	2336.5	2891.9	3126.4	2680.4	2169.6	1868.9	1824.3	1828.7
50°	10439.6	5770.9	1916.4	2320.7	2933.6	3096.2	2529.3	2130.8	1840.2	1894.8	1952.4
52.5°	10656.9	5388.1	1868.9	2289.1	2949.5	3043.0	2490.5	2138.0	1840.2	1945.2	1999.9
55°	10914.4	5099.0	1814.3	2222.9	2919.2	2891.9	2463.2	2181.2	1861.8	1795.6	1801.3
57.5°	11246.8	5004.0	1753.8	2119.3	2818.5	2671.8	2450.2	2222.9	1848.8	1807.1	1821.5
60°	11707.2	5104.7	1729.4	1984.0	2661.7	2499.1	2451.6	2201.3	1758.2	1686.2	1687.7
62.5°	12146.0	5216.9	1727.9	1899.2	2468.9	2345.2	2418.6	2130.8	1712.1	1670.4	1686.2
65°	12289.9	5103.3	1658.9	1804.2	2251.7	2161.0	2358.1	2056.0	1677.6	1614.3	1611.4
67.5°	12097.1	4750.8	1519.3	1650.3	2002.8	1946.6	2279.0	1966.8	1622.9	1571.1	1562.5
70°	11524.5	3963.8	1346.7	1447.4	1719.3	1704.9	2153.8	1863.2	1549.5	1504.9	1467.5
72.5°	9983.5	2824.3	1135.2	1204.2	1399.9	1446.0	1981.2	1727.9	1446.0	1349.6	1292.0
75°	8199.5	2090.5	932.3	946.7	1063.2	1188.4	1743.8	1569.7	1323.7	1159.6	1115.0
77.5°	5021.3	1279.1	742.4	748.2	762.5	948.1	1435.9	1392.7	1168.3	966.8	935.2
80°	1625.8	697.8	536.7	564.0	520.8	694.9	1110.7	1185.5	1002.8	808.6	774.1
82.5°	618.7	407.2	362.6	381.3	361.1	466.2	810.0	949.6	821.5	664.7	541.0
85°	299.3	230.2	214.4	240.3	223.0	238.8	518.0	699.2	623.0	433.1	402.9
87.5°	106.5	102.2	82.0	110.8	95.0	84.9	158.3	352.5	411.5	297.8	266.2
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)