

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: P319073

Luminaire Tested: **GAN-SA9A-750-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-750-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41370 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

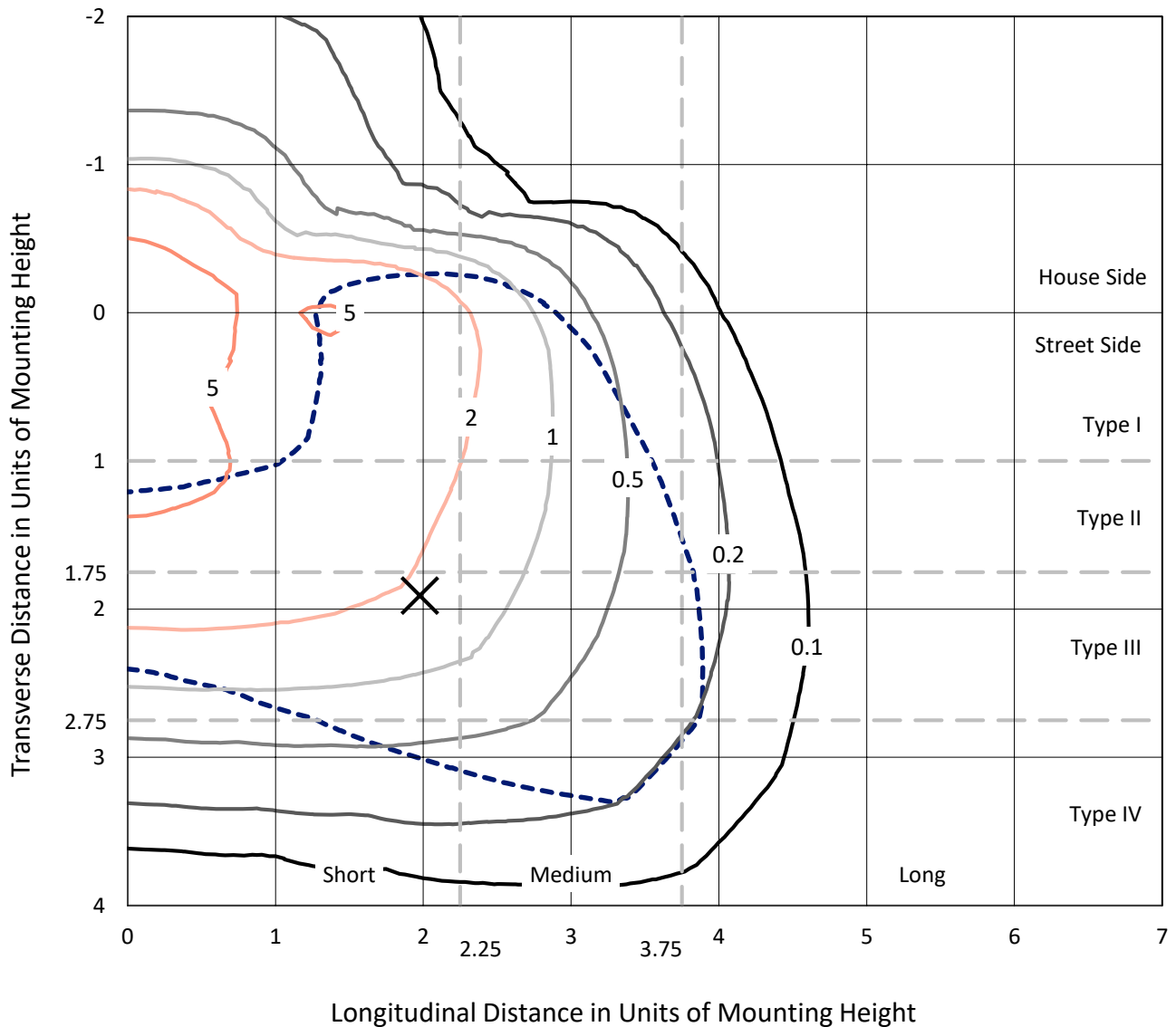
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

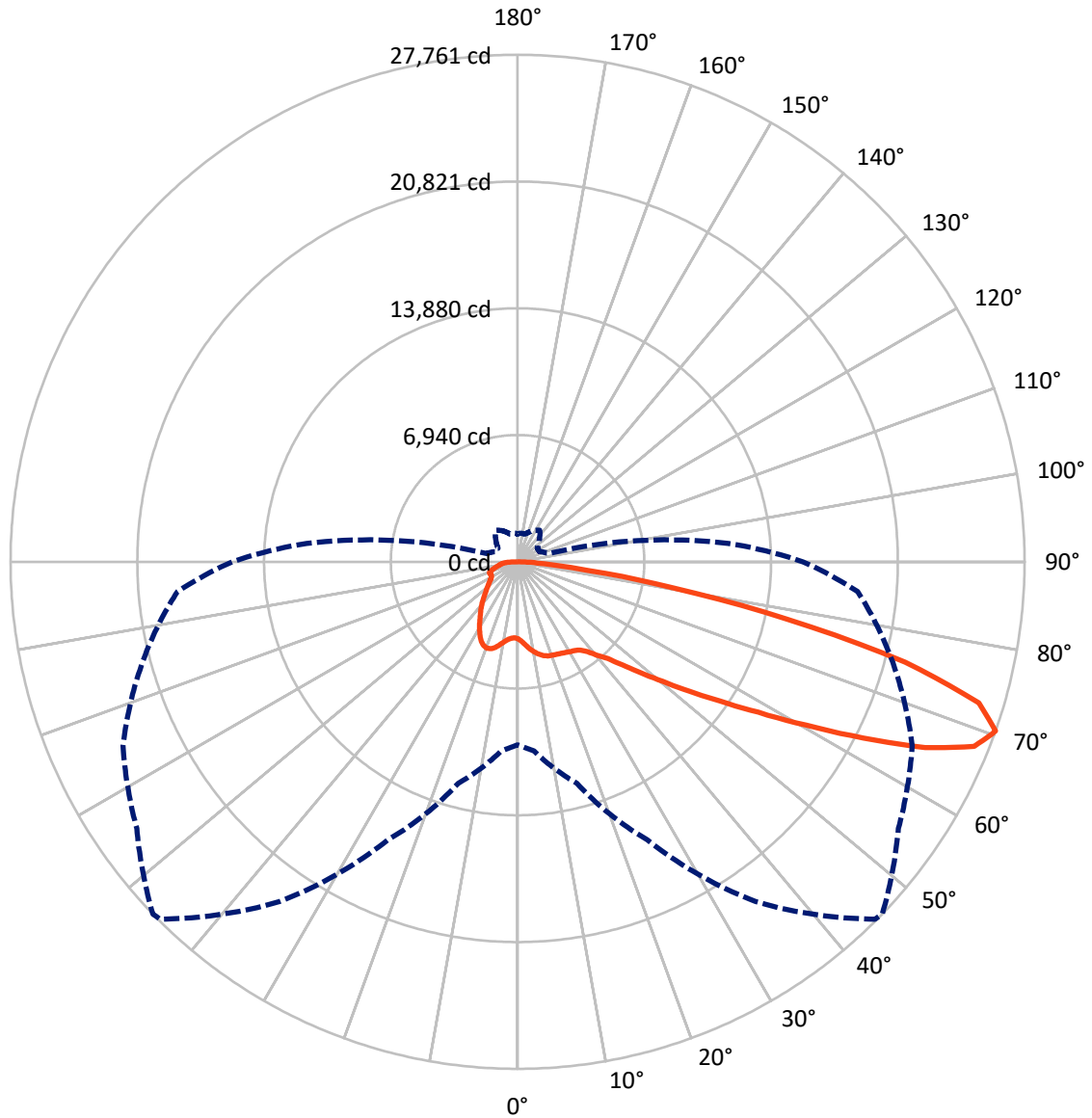
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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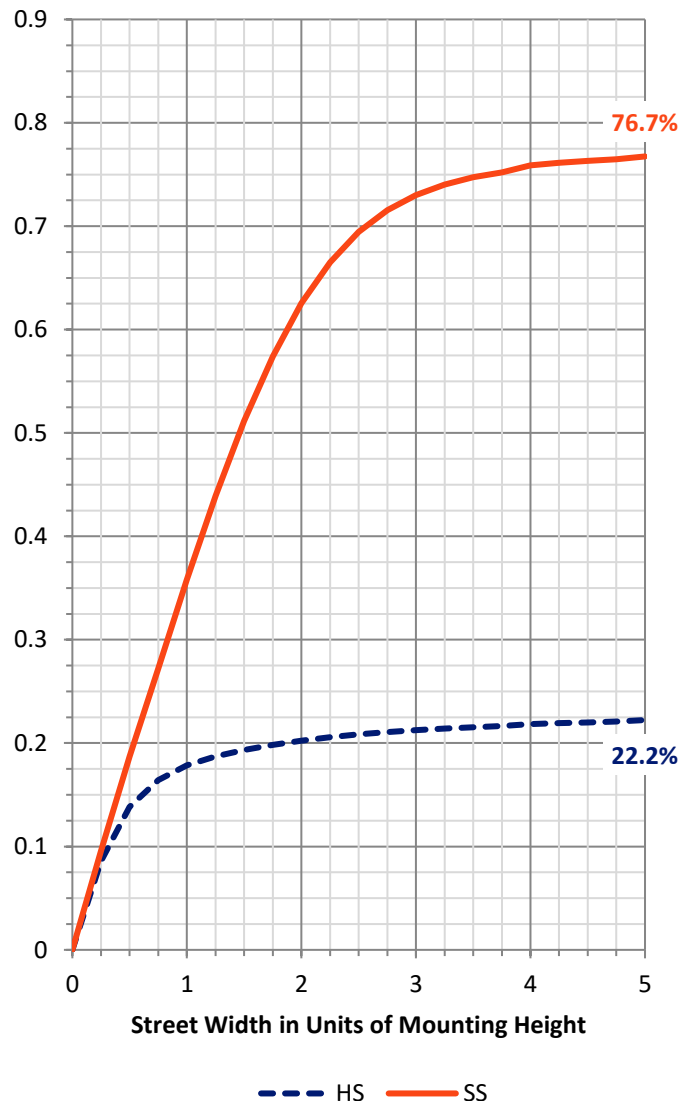
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9481.9	0.0	9481.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	31888.1	0.0	31888.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	41370.0	0.0	41370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.7	1.0
10°-20°	1431.5	3.5
20°-30°	2386.9	5.8
30°-40°	3387.2	8.2
40°-50°	4982.3	12.0
50°-60°	8437.5	20.4
60°-70°	11976.9	29.0
70°-80°	7276.1	17.6
80°-90°	1061.9	2.6
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°	41370.0	100.0
0°-180°	41370.0	100.0

**Coefficient of Utilization**

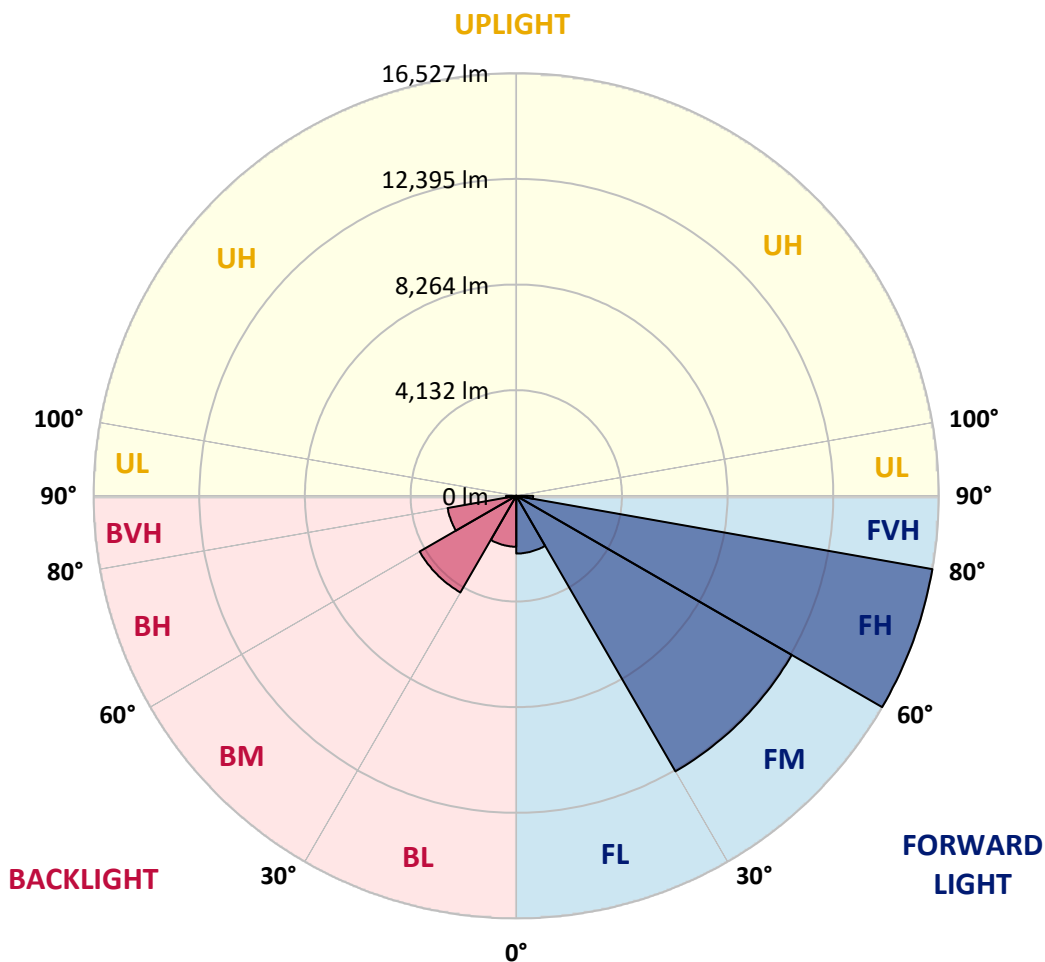


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.3	5.5			
FM (30°-60°)	12442.3	30.1			
FH (60°-80°)	16527.1	39.9			G5
FVH (80°-90°)	661.4	1.6			G4/750
BL (0°-30°)	1990.7	4.8	B3/2500		
BM (30°-60°)	4364.8	10.6	B3/5000		
BH (60°-80°)	2726.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	400.4	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8
2.5°	4425.7	4428.6	4434.2	4420.1	4380.4	4369.1	4364.9	4323.8	4296.9	4257.3	4223.3
5°	4779.7	4782.5	4774.0	4734.4	4646.6	4581.5	4575.8	4482.4	4397.4	4306.8	4238.9
7.5°	5149.2	5153.5	5126.6	5051.5	4928.3	4815.1	4808.0	4680.6	4551.8	4414.4	4312.5
10°	5476.3	5459.3	5415.4	5310.6	5164.8	5026.0	5020.4	4887.3	4738.6	4573.0	4437.1
12.5°	5694.3	5680.1	5623.5	5496.1	5336.1	5208.7	5197.3	5074.2	4929.8	4748.5	4585.7
15°	5814.6	5824.5	5748.1	5603.7	5447.9	5340.3	5330.4	5242.7	5113.8	4931.2	4744.3
17.5°	5830.2	5838.7	5765.1	5622.1	5494.7	5421.0	5416.8	5358.7	5265.3	5089.7	4894.4
20°	5739.6	5745.3	5684.4	5566.9	5483.3	5460.7	5459.3	5433.8	5364.4	5208.7	5019.0
22.5°	5607.9	5612.2	5568.3	5483.3	5455.0	5490.4	5500.3	5490.4	5440.9	5295.0	5116.6
25°	5575.4	5572.5	5527.2	5440.9	5464.9	5540.0	5552.7	5557.0	5523.0	5395.6	5241.2
27.5°	5732.5	5722.6	5636.2	5497.5	5513.1	5603.7	5620.7	5661.7	5640.5	5528.6	5382.8
30°	6187.0	6170.0	5993.0	5712.7	5636.2	5683.0	5704.2	5769.3	5773.6	5680.1	5571.1
32.5°	6954.3	6933.1	6616.0	6114.8	5844.4	5763.7	5783.5	5881.2	5933.6	5861.4	5743.8
35°	7924.2	7900.1	7483.8	6798.6	6192.6	5918.0	5932.1	6010.0	6114.8	6012.8	5857.1
37.5°	8935.0	8877.0	8476.3	7602.8	6746.2	6247.9	6247.9	6257.8	6307.3	6095.0	5990.2
40°	9940.2	9882.2	9519.7	8548.5	7462.6	6767.5	6734.9	6515.4	6475.8	6293.2	6257.8
42.5°	10874.6	10857.7	10643.9	9617.4	8303.6	7278.6	7233.2	6860.9	6869.4	6756.1	6757.5
45°	11868.5	11868.5	11694.4	10696.3	9283.3	8099.7	8054.4	7506.5	7591.4	7539.1	7665.1
47.5°	12679.8	12705.3	12681.2	11820.4	10423.0	9143.1	9061.0	8401.3	8639.1	8818.9	9185.6
50°	13508.0	13547.7	13551.9	13053.5	11800.6	10383.4	10289.9	9589.1	10120.0	10635.4	11356.0
52.5°	14710.0	14799.2	14443.8	14283.9	13488.2	11855.8	11763.8	11116.7	12003.0	12726.5	13968.1
55°	15824.2	15746.4	15492.9	15592.0	15294.7	13532.1	13462.7	12895.0	14101.2	15041.3	16653.9
57.5°	16427.4	16421.7	16676.5	17101.3	17242.9	15599.1	15541.1	14988.9	16467.0	17173.5	19175.4
60°	17135.3	17145.2	17776.6	18740.8	19324.1	18173.0	18147.5	17728.5	18764.8	19164.1	21153.3
62.5°	17234.4	17412.7	18500.1	20159.4	21272.2	21180.2	21236.8	20196.2	20820.5	20752.6	22629.9
65°	16094.6	16329.7	18297.6	20588.4	23209.0	24469.0	24521.4	22678.1	22441.6	22110.3	23158.0
67.5°	13758.6	14106.9	16244.7	19655.3	23847.5	26899.9	26973.5	24602.1	23786.6	22570.5	21886.6
70°	10012.4	10398.9	12550.9	16787.0	22709.2	27677.2	27760.7	25453.0	23837.6	21260.8	18684.1
72.5°	6048.2	6351.2	8125.2	12358.4	19166.9	26261.4	26410.1	24374.2	21763.5	18008.8	13796.8
75°	2656.0	2854.2	3928.8	7121.4	13721.8	21728.1	21913.5	20863.0	17683.2	13087.5	8154.9
77.5°	1131.2	1187.8	1611.2	3093.5	7757.1	14847.3	15102.2	15243.8	11997.4	7121.4	3446.0
80°	705.1	727.7	911.8	1400.2	3630.1	8339.0	8613.6	8969.0	5957.6	2617.8	1203.4
82.5°	429.0	454.5	606.0	846.6	1890.1	3780.1	3911.8	4162.4	2312.0	1131.2	622.9
85°	257.7	276.1	370.9	535.2	1076.0	1486.6	1485.2	1642.3	1088.7	727.7	328.5
87.5°	123.2	137.3	198.2	277.5	542.2	557.8	522.4	591.8	661.2	477.1	165.6
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°	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8	4214.8
2.5°	4212.0	4206.3	4187.9	4173.7	4170.9	4162.4	4155.3	4159.6	4165.2	4166.7	4166.7
5°	4210.5	4195.0	4170.9	4161.0	4173.7	4190.7	4212.0	4240.3	4257.3	4270.0	4278.5
7.5°	4278.5	4248.8	4221.9	4216.2	4241.7	4287.0	4335.1	4394.6	4435.7	4464.0	4469.6
10°	4391.8	4355.0	4328.1	4333.7	4379.0	4444.2	4512.1	4588.6	4650.9	4689.1	4691.9
12.5°	4522.0	4486.6	4461.1	4485.2	4560.2	4639.5	4710.3	4776.9	4833.5	4871.7	4871.7
15°	4672.1	4646.6	4616.9	4672.1	4774.0	4844.8	4874.5	4907.1	4938.3	4966.6	4960.9
17.5°	4816.5	4792.4	4776.9	4842.0	4948.2	4980.7	4960.9	4936.8	4936.8	4952.4	4955.2
20°	4941.1	4919.9	4929.8	4993.5	5048.7	5014.7	4941.1	4864.6	4833.5	4842.0	4850.5
22.5°	5050.1	5040.2	5069.9	5099.7	5060.0	4941.1	4805.2	4701.8	4663.6	4660.8	4663.6
25°	5177.5	5176.1	5212.9	5159.1	4983.6	4764.1	4581.5	4481.0	4459.7	4476.7	4505.0
27.5°	5336.1	5351.7	5370.1	5173.3	4827.8	4496.5	4311.1	4241.7	4262.9	4304.0	4330.9
30°	5538.6	5581.0	5541.4	5137.9	4604.1	4190.7	4013.8	3993.9	4052.0	4110.0	4138.3
32.5°	5735.3	5801.9	5705.6	5045.9	4315.3	3866.5	3729.2	3723.5	3794.3	3850.9	3890.6
35°	5893.9	6025.6	5828.8	4863.2	3981.2	3567.8	3467.3	3429.0	3454.5	3521.1	3566.4
37.5°	6100.6	6320.1	5913.7	4584.3	3618.7	3321.4	3203.9	3116.1	3093.5	3120.4	3143.0
40°	6478.6	6768.9	5953.4	4195.0	3264.8	3075.1	2956.2	2827.3	2738.1	2673.0	2674.4
42.5°	7095.9	7353.6	5927.9	3722.1	2937.8	2834.4	2699.9	2551.2	2406.8	2259.6	2248.3
45°	8098.3	8222.9	5851.4	3220.9	2650.4	2582.4	2456.4	2307.7	2115.2	1948.1	1932.5
47.5°	9702.4	9426.3	5732.5	2783.4	2396.9	2368.6	2252.5	2081.2	1877.3	1742.8	1731.5
50°	11889.8	11163.5	5674.5	2435.2	2173.2	2181.7	2086.9	1905.6	1713.1	1614.0	1602.7
52.5°	14506.1	13186.6	5786.3	2166.2	1993.4	2023.2	1952.4	1782.5	1621.1	1543.2	1531.9
55°	17220.2	15282.0	5906.7	1970.8	1823.5	1881.6	1857.5	1717.3	1571.5	1499.3	1489.4
57.5°	19543.5	16846.4	5666.0	1812.2	1672.0	1762.7	1783.9	1676.3	1546.0	1480.9	1469.6
60°	21006.0	17476.5	5034.5	1663.5	1551.7	1667.8	1741.4	1665.0	1555.9	1550.3	1541.8
62.5°	21699.7	17421.2	4087.4	1546.0	1476.7	1626.7	1772.6	1728.7	1669.2	1720.2	1724.4
65°	21388.3	16588.8	3043.9	1468.2	1422.9	1642.3	1866.0	1849.0	1701.8	1752.7	1759.8
67.5°	19338.2	14602.4	2253.9	1400.2	1363.4	1686.2	2035.9	1888.7	1638.1	1674.9	1652.2
70°	15630.3	11576.9	1738.6	1323.8	1302.5	1680.5	2112.4	1864.6	1568.7	1577.2	1516.3
72.5°	10778.4	7894.4	1414.4	1253.0	1214.7	1531.9	2058.6	1805.1	1510.6	1445.5	1364.8
75°	5861.4	4237.4	1202.0	1179.3	1060.4	1345.0	1959.4	1762.7	1458.3	1371.9	1326.6
77.5°	2306.3	1758.4	1043.4	1078.8	927.3	1187.8	1849.0	1682.0	1386.1	1272.8	1250.1
80°	941.5	897.6	865.0	933.0	797.1	1039.2	1715.9	1587.1	1299.7	1180.8	1135.5
82.5°	533.8	557.8	672.5	736.2	647.0	957.1	1652.2	1510.6	1196.3	1057.6	1003.8
85°	273.2	327.0	468.6	528.1	475.7	814.1	1522.0	1322.3	959.9	809.8	814.1
87.5°	131.7	182.6	295.9	331.3	308.6	589.0	1136.9	958.5	747.5	591.8	573.4
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)