

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: P318994

Luminaire Tested: **GAN-SA0A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318994
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-SA0A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 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: 41713 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

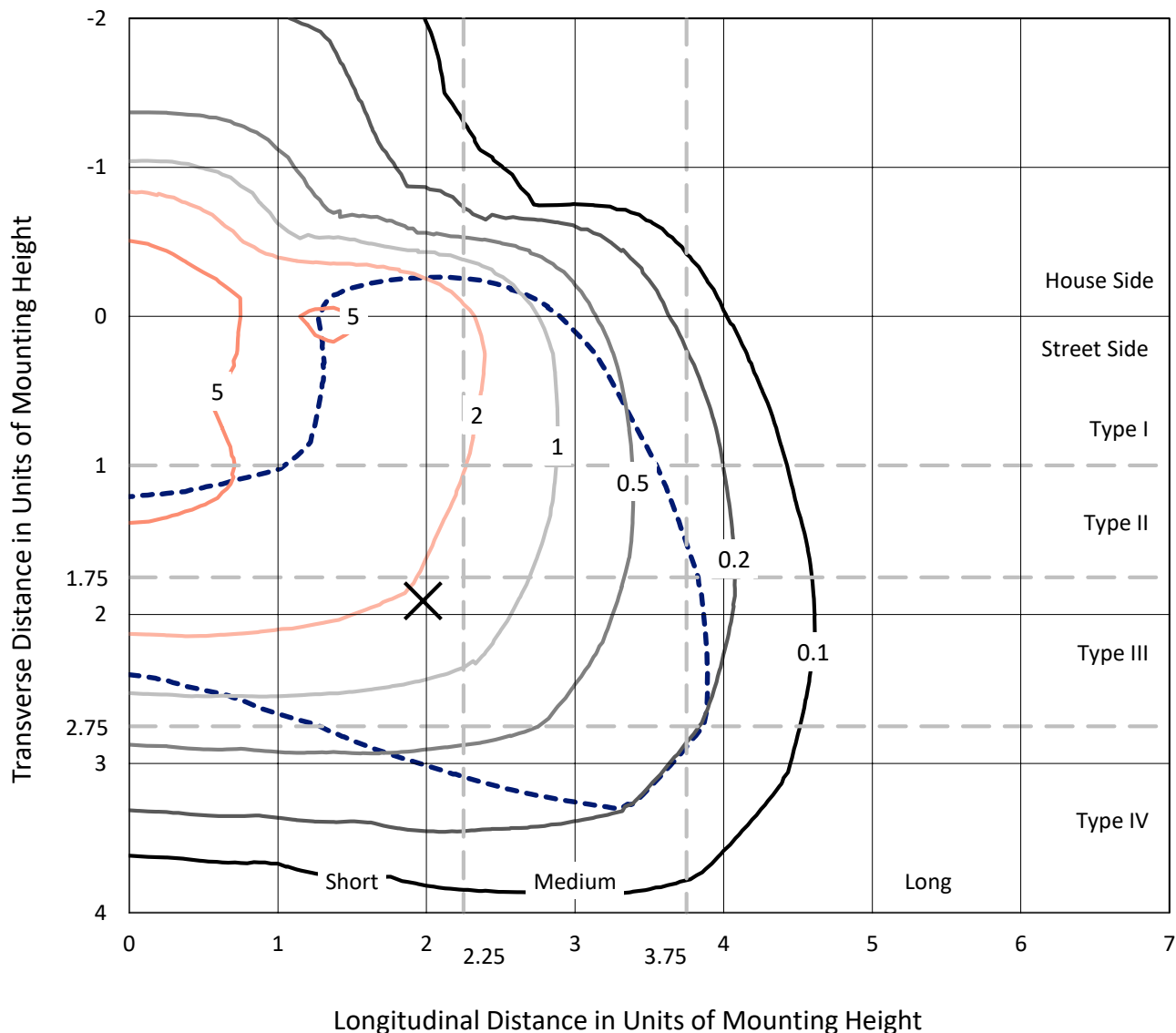
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

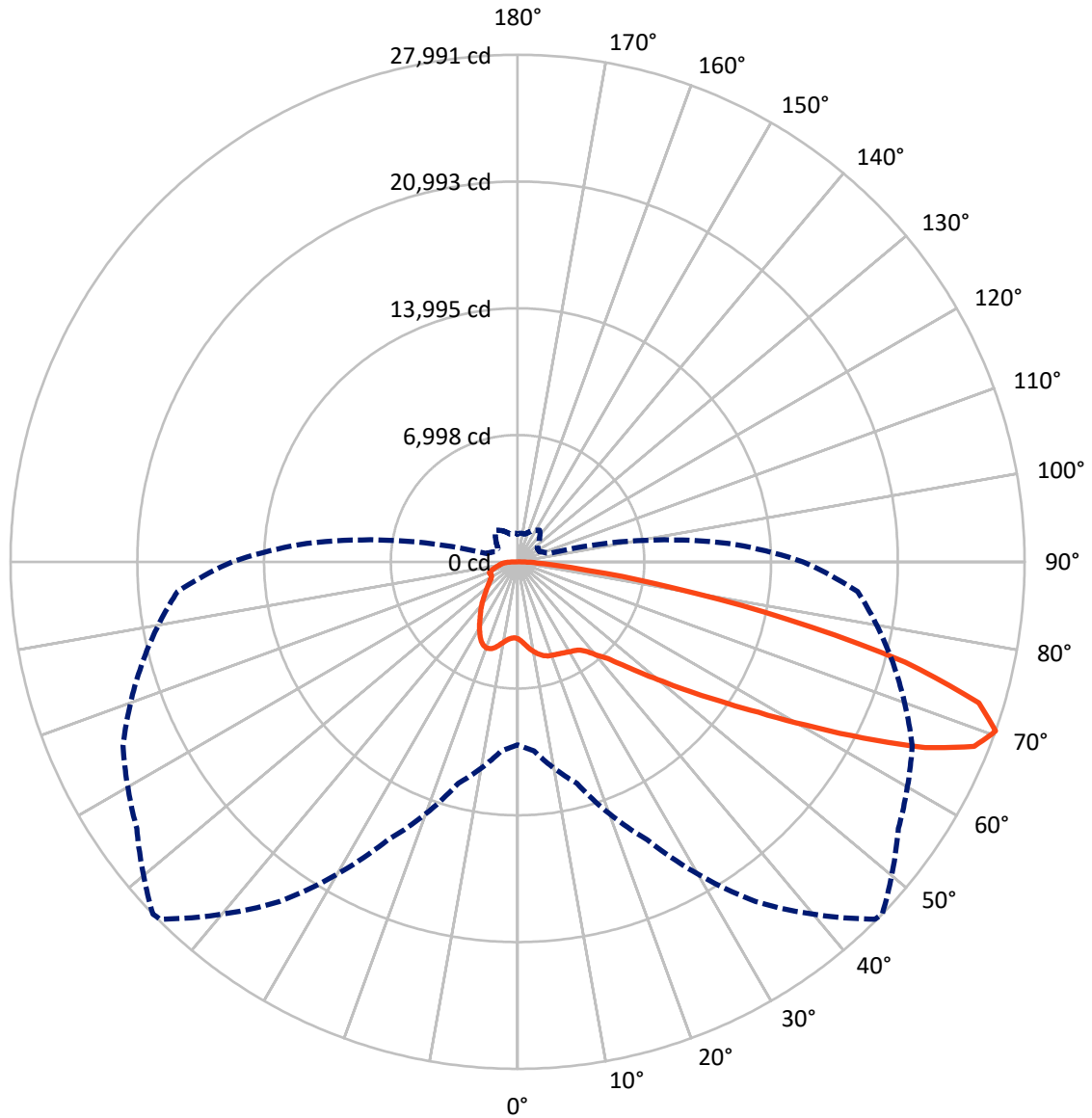
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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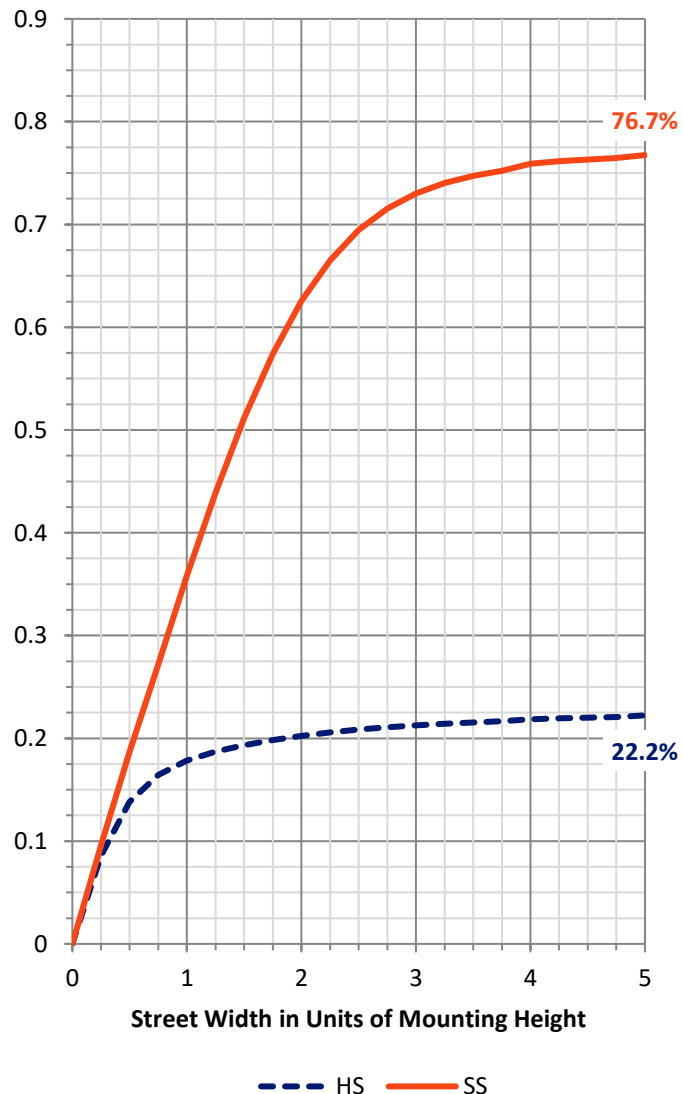
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9560.5	0.0	9560.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32152.5	0.0	32152.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	41713.0	0.0	41713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.2	1.0
10°-20°	1443.4	3.5
20°-30°	2406.7	5.8
30°-40°	3415.2	8.2
40°-50°	5023.6	12.0
50°-60°	8507.5	20.4
60°-70°	12076.2	29.0
70°-80°	7336.4	17.6
80°-90°	1070.7	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°	41713.0	100.0
0°-180°	41713.0	100.0

Coefficient of Utilization

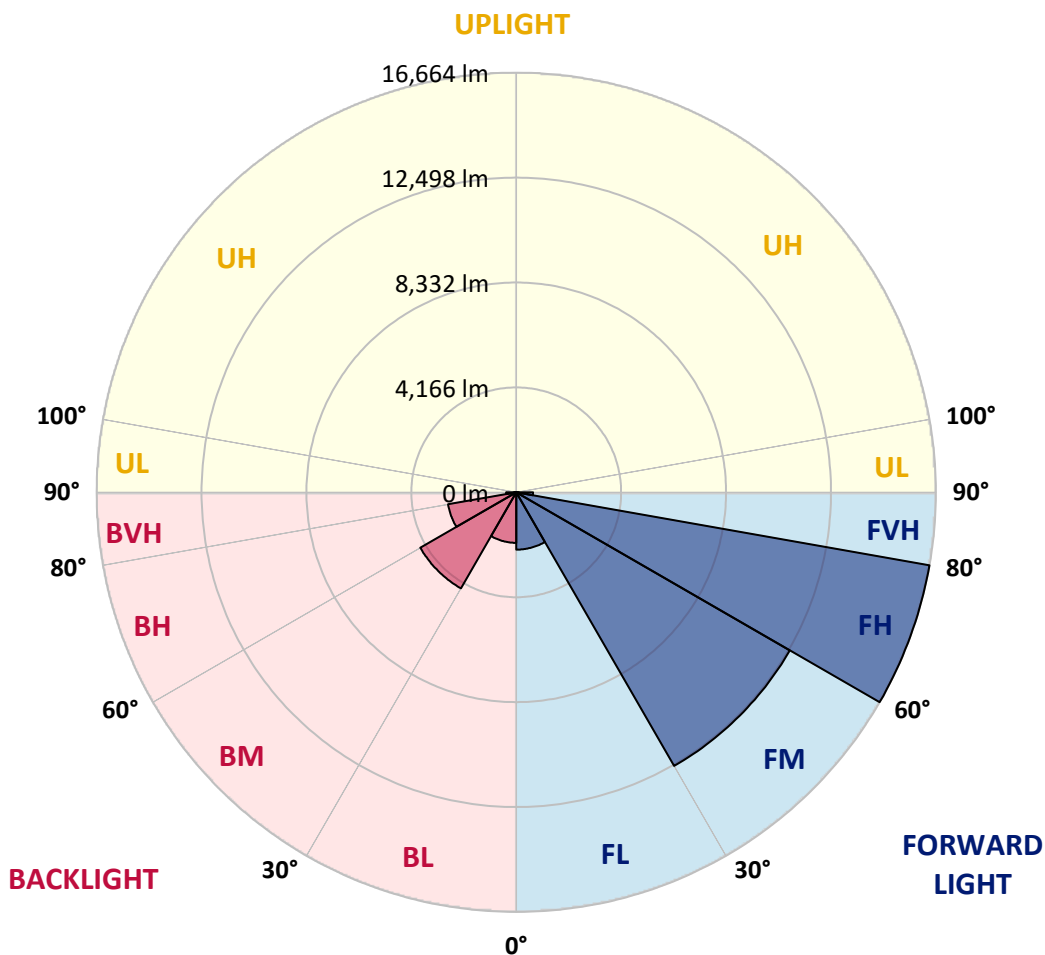


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.1	5.5			
FM (30°-60°)	12545.4	30.1			
FH (60°-80°)	16664.1	39.9			G5
FVH (80°-90°)	666.9	1.6			G4/750
BL (0°-30°)	2007.3	4.8	B3/2500		
BM (30°-60°)	4401.0	10.6	B3/5000		
BH (60°-80°)	2748.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	403.7	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°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4462.4	4465.3	4471.0	4456.7	4416.8	4405.3	4401.1	4359.7	4332.5	4292.6	4258.3
5°	4819.3	4822.2	4813.6	4773.6	4685.1	4619.5	4613.8	4519.5	4433.9	4342.5	4274.0
7.5°	5191.9	5196.2	5169.1	5093.4	4969.2	4855.0	4847.9	4719.4	4589.5	4451.0	4348.2
10°	5521.7	5504.5	5460.3	5354.6	5207.6	5067.7	5062.0	4927.8	4777.9	4610.9	4473.9
12.5°	5741.5	5727.2	5670.1	5541.6	5380.3	5251.9	5240.4	5116.2	4970.6	4787.9	4623.7
15°	5862.8	5872.8	5795.7	5650.1	5493.1	5384.6	5374.6	5286.1	5156.2	4972.1	4783.6
17.5°	5878.5	5887.1	5812.9	5668.7	5540.2	5466.0	5461.7	5403.2	5309.0	5131.9	4934.9
20°	5787.2	5792.9	5731.5	5613.0	5528.8	5506.0	5504.5	5478.8	5408.9	5251.9	5060.6
22.5°	5654.4	5658.7	5614.5	5528.8	5500.2	5535.9	5545.9	5535.9	5486.0	5338.9	5159.1
25°	5621.6	5618.7	5573.1	5486.0	5510.2	5585.9	5598.7	5603.0	5568.8	5440.3	5284.7
27.5°	5780.0	5770.1	5683.0	5543.1	5558.8	5650.1	5667.3	5708.7	5687.3	5574.5	5427.4
30°	6238.3	6221.1	6042.7	5760.1	5683.0	5730.1	5751.5	5817.2	5821.4	5727.2	5617.3
32.5°	7012.0	6990.6	6670.8	6165.5	5892.8	5811.4	5831.4	5929.9	5982.8	5909.9	5791.5
35°	7989.9	7965.6	7545.9	6855.0	6244.0	5967.0	5981.3	6059.8	6165.5	6062.7	5905.7
37.5°	9009.1	8950.6	8546.6	7665.8	6802.2	6299.7	6299.7	6309.7	6359.6	6145.5	6039.9
40°	10022.6	9964.1	9598.7	8619.4	7524.5	6823.6	6790.7	6569.5	6529.5	6345.3	6309.7
42.5°	10964.8	10947.7	10732.1	9697.2	8372.4	7338.9	7293.2	6917.8	6926.3	6812.1	6813.6
45°	11966.9	11966.9	11791.3	10784.9	9360.3	8166.9	8121.2	7568.7	7654.4	7601.6	7728.6
47.5°	12784.9	12810.6	12786.3	11918.4	10509.4	9218.9	9136.2	8470.9	8710.8	8892.0	9261.8
50°	13620.0	13660.0	13664.3	13161.8	11898.4	10469.5	10375.2	9668.6	10203.9	10723.6	11450.2
52.5°	14832.0	14921.9	14563.6	14402.3	13600.0	11954.1	11861.3	11208.9	12102.5	12832.0	14083.9
55°	15955.4	15876.9	15621.4	15721.3	15421.5	13644.3	13574.3	13001.9	14218.1	15166.0	16792.0
57.5°	16563.6	16557.8	16814.8	17243.1	17385.8	15728.5	15669.9	15113.2	16603.5	17315.9	19334.4
60°	17277.3	17287.3	17924.0	18896.1	19484.3	18323.7	18298.0	17875.5	18920.4	19323.0	21328.6
62.5°	17377.2	17557.1	18653.5	20326.5	21448.5	21355.8	21412.9	20363.6	20993.2	20924.6	22817.5
65°	16228.1	16465.1	18449.3	20759.1	23401.4	24671.9	24724.7	22866.1	22627.7	22293.6	23350.0
67.5°	13872.7	14223.8	16379.4	19818.3	24045.2	27123.0	27197.2	24806.1	23983.8	22757.6	22068.1
70°	10095.4	10485.2	12655.0	16926.1	22897.5	27906.7	27990.9	25664.0	24035.2	21437.1	18839.0
72.5°	6098.4	6403.9	8192.6	12460.9	19325.8	26479.1	26629.0	24576.2	21943.9	18158.1	13911.2
75°	2678.0	2877.9	3961.4	7180.4	13835.6	21908.2	22095.2	21036.0	17829.8	13196.0	8222.5
77.5°	1140.6	1197.7	1624.5	3119.1	7821.4	14970.4	15227.4	15370.1	12096.8	7180.4	3474.6
80°	710.9	733.7	919.3	1411.8	3660.2	8408.1	8685.1	9043.4	6007.0	2639.5	1213.4
82.5°	432.5	458.2	611.0	853.7	1905.7	3811.5	3944.2	4196.9	2331.1	1140.6	628.1
85°	259.8	278.4	374.0	539.6	1084.9	1498.9	1497.5	1655.9	1097.8	733.7	331.2
87.5°	124.2	138.5	199.9	279.8	546.7	562.4	526.8	596.7	666.7	481.1	167.0
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°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4246.9	4241.2	4222.6	4208.3	4205.5	4196.9	4189.8	4194.1	4199.8	4201.2	4201.2
5°	4245.5	4229.8	4205.5	4195.5	4208.3	4225.5	4246.9	4275.4	4292.6	4305.4	4314.0
7.5°	4314.0	4284.0	4256.9	4251.2	4276.9	4322.5	4371.1	4431.0	4472.4	4501.0	4506.7
10°	4428.2	4391.1	4363.9	4369.7	4415.3	4481.0	4549.5	4626.6	4689.4	4728.0	4730.8
12.5°	4559.5	4523.8	4498.1	4522.4	4598.1	4678.0	4749.4	4816.5	4873.6	4912.1	4912.1
15°	4710.8	4685.1	4655.2	4710.8	4813.6	4885.0	4915.0	4947.8	4979.2	5007.8	5002.0
17.5°	4856.4	4832.2	4816.5	4882.1	4989.2	5022.0	5002.0	4977.8	4977.8	4993.5	4996.3
20°	4982.1	4960.6	4970.6	5034.9	5090.5	5056.3	4982.1	4905.0	4873.6	4882.1	4890.7
22.5°	5092.0	5082.0	5112.0	5141.9	5102.0	4982.1	4845.0	4740.8	4702.3	4699.4	4702.3
25°	5220.5	5219.0	5256.1	5201.9	5024.9	4803.6	4619.5	4518.1	4496.7	4513.8	4542.4
27.5°	5380.3	5396.0	5414.6	5216.2	4867.9	4533.8	4346.8	4276.9	4298.3	4339.7	4366.8
30°	5584.5	5627.3	5587.3	5180.5	4642.3	4225.5	4047.0	4027.0	4085.6	4144.1	4172.7
32.5°	5782.9	5850.0	5752.9	5087.7	4351.1	3898.6	3760.1	3754.4	3825.8	3882.9	3922.8
35°	5942.8	6075.5	5877.1	4903.5	4014.2	3597.4	3496.0	3457.5	3483.2	3550.3	3595.9
37.5°	6151.2	6372.5	5962.8	4622.3	3648.8	3349.0	3230.5	3142.0	3119.1	3146.3	3169.1
40°	6532.3	6825.0	6002.7	4229.8	3291.9	3100.6	2980.7	2850.8	2760.8	2695.2	2696.6
42.5°	7154.7	7414.6	5977.0	3753.0	2962.1	2857.9	2722.3	2572.4	2426.8	2278.3	2266.9
45°	8165.4	8291.1	5900.0	3247.6	2672.3	2603.8	2476.8	2326.9	2132.7	1964.3	1948.6
47.5°	9782.8	9504.5	5780.0	2806.5	2416.8	2388.2	2271.2	2098.5	1892.9	1757.3	1745.9
50°	11988.3	11256.0	5721.5	2455.3	2191.2	2199.8	2104.2	1921.4	1727.3	1627.4	1616.0
52.5°	14626.4	13296.0	5834.3	2184.1	2010.0	2039.9	1968.6	1797.3	1634.5	1556.0	1544.6
55°	17363.0	15408.7	5955.6	1987.1	1838.7	1897.2	1872.9	1731.6	1584.6	1511.7	1501.8
57.5°	19705.5	16986.1	5713.0	1827.2	1685.9	1777.3	1798.7	1690.2	1558.9	1493.2	1481.8
60°	21180.2	17621.4	5076.3	1677.3	1564.6	1681.6	1755.9	1678.8	1568.8	1563.1	1554.6
62.5°	21879.7	17565.7	4121.3	1558.9	1488.9	1640.2	1787.3	1743.0	1683.1	1734.4	1738.7
65°	21565.6	16726.3	3069.2	1480.3	1434.7	1655.9	1881.5	1864.3	1715.9	1767.3	1774.4
67.5°	19498.5	14723.5	2272.6	1411.8	1374.7	1700.2	2052.8	1904.3	1651.6	1688.8	1665.9
70°	15759.9	11672.9	1753.0	1334.7	1313.3	1694.5	2129.9	1880.0	1581.7	1590.3	1528.9
72.5°	10867.7	7959.9	1426.1	1263.4	1224.8	1544.6	2075.6	1820.1	1523.2	1457.5	1376.1
75°	5909.9	4272.6	1212.0	1189.1	1069.2	1356.1	1975.7	1777.3	1470.3	1383.3	1337.6
77.5°	2325.4	1773.0	1052.1	1087.8	935.0	1197.7	1864.3	1695.9	1397.5	1283.3	1260.5
80°	949.3	905.1	872.2	940.7	803.7	1047.8	1730.2	1600.3	1310.5	1190.6	1144.9
82.5°	538.2	562.4	678.1	742.3	652.4	965.0	1665.9	1523.2	1206.3	1066.4	1012.1
85°	275.5	329.8	472.5	532.5	479.6	820.8	1534.6	1333.3	967.9	816.5	820.8
87.5°	132.8	184.2	298.4	334.0	311.2	593.8	1146.3	966.4	753.7	596.7	578.1
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)