

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: P318071

Luminaire Tested: **GAN-SA7A-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32347 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

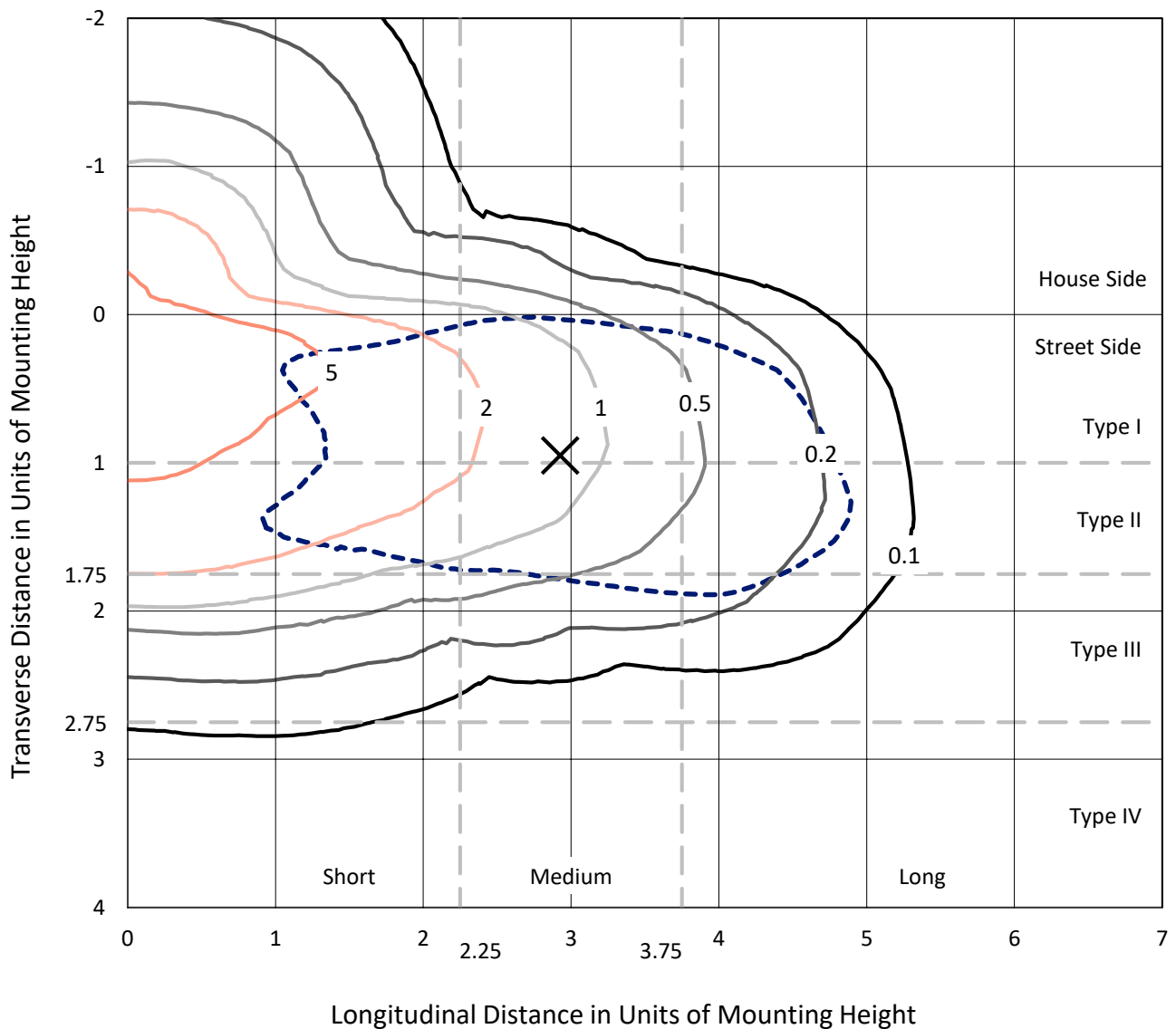
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

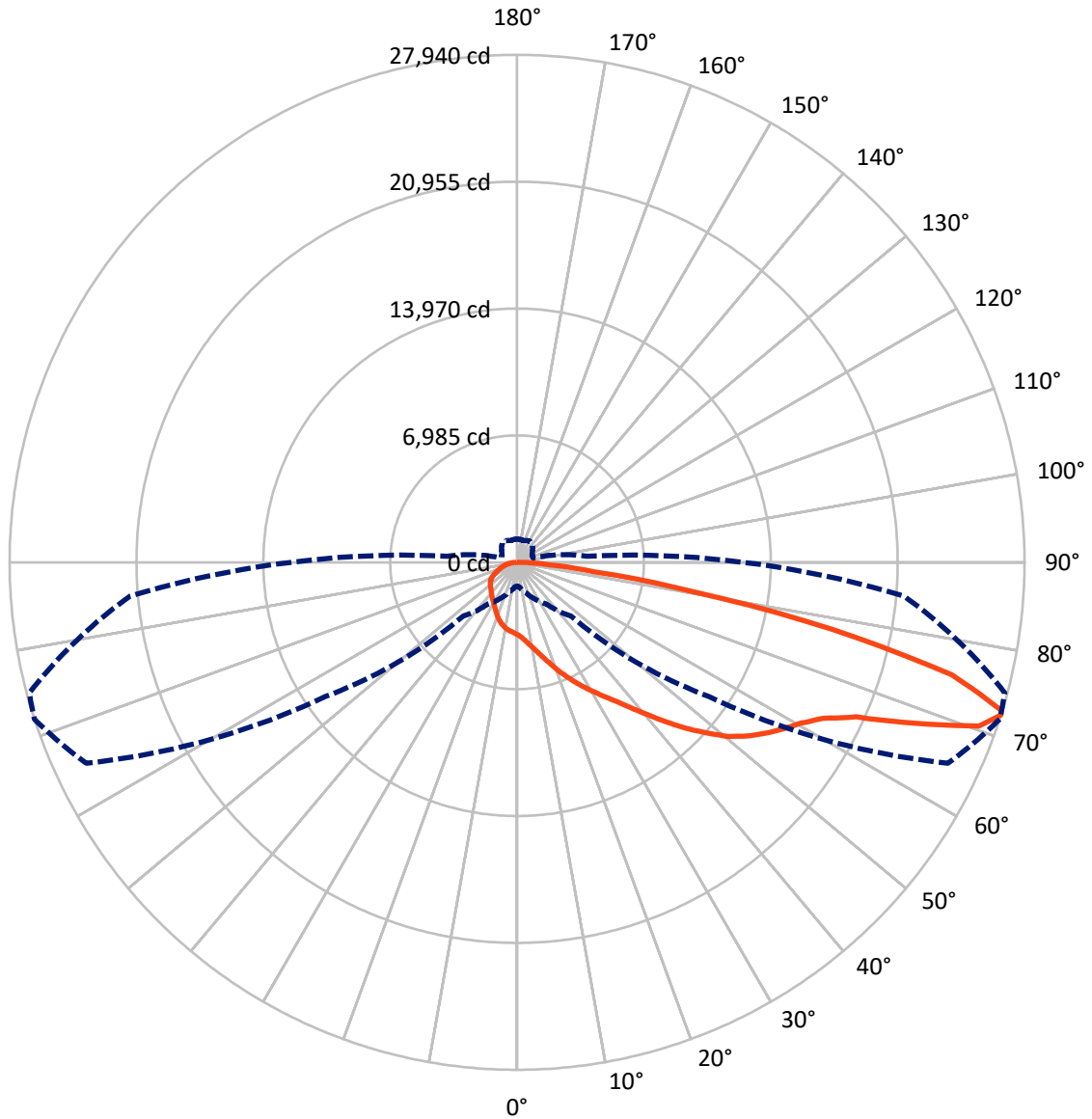
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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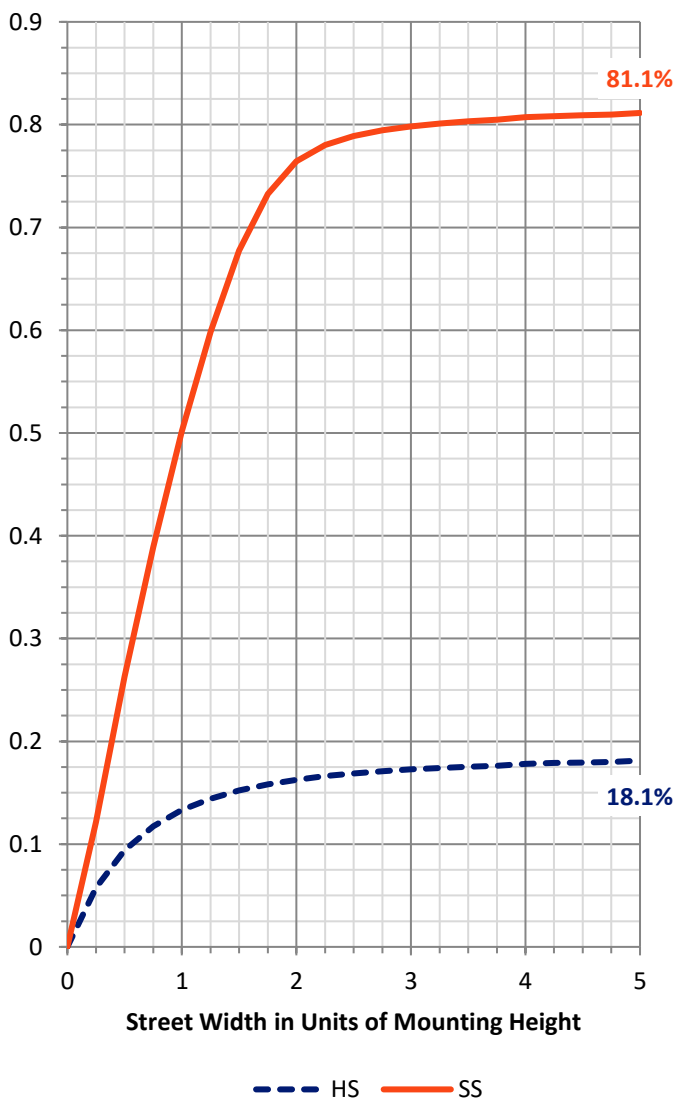
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6000.6	0.0	6000.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26346.4	0.0	26346.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32347.0	0.0	32347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.8	1.2
10°-20°	1288.6	4.0
20°-30°	2258.0	7.0
30°-40°	3348.0	10.4
40°-50°	4896.7	15.1
50°-60°	6737.8	20.8
60°-70°	7501.1	23.2
70°-80°	5082.7	15.7
80°-90°	835.4	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°	32347.0	100.0
0°-180°	32347.0	100.0

**Coefficient of Utilization**

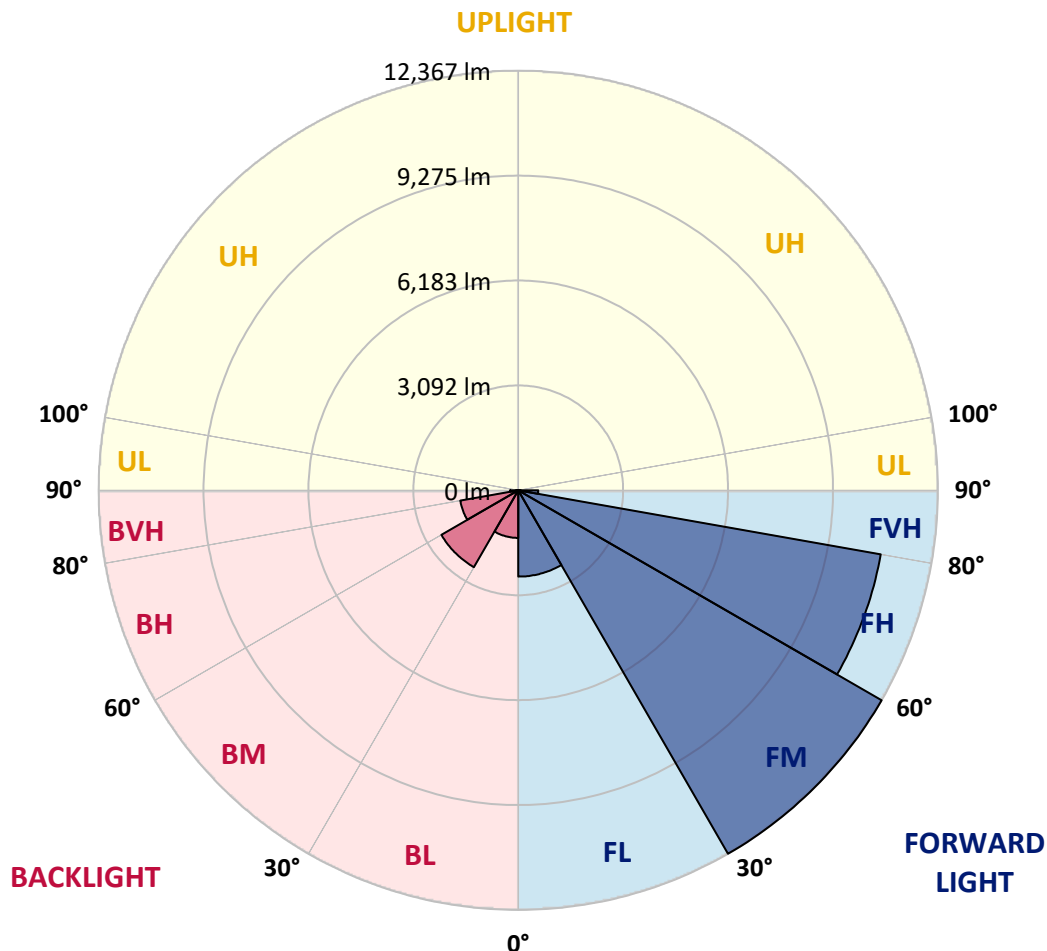


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2542.7	7.9			
FM (30°-60°)	12366.7	38.2			
FH (60°-80°)	10847.8	33.5			G4/12000
FVH (80°-90°)	589.3	1.8			G4/750
BL (0°-30°)	1402.7	4.3	B3/2500		
BM (30°-60°)	2615.7	8.1	B3/5000		
BH (60°-80°)	1736.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	246.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5
2.5°	4396.1	4389.4	4366.0	4366.0	4321.5	4283.6	4212.3	4164.4	4107.6	4087.6	4020.7
5°	4821.5	4823.8	4794.8	4774.8	4709.0	4628.9	4507.5	4397.2	4286.9	4242.4	4105.4
7.5°	5179.1	5174.6	5166.8	5150.1	5088.8	5006.4	4842.7	4679.0	4516.4	4449.5	4213.4
10°	5408.5	5418.5	5425.2	5433.0	5407.4	5348.4	5193.5	4994.2	4781.4	4690.1	4342.6
12.5°	5524.3	5542.2	5573.3	5626.8	5669.1	5662.4	5550.0	5338.3	5085.5	4970.8	4504.1
15°	5592.3	5615.7	5664.7	5760.5	5879.6	5947.6	5917.5	5725.9	5444.1	5302.7	4701.3
17.5°	5634.6	5653.5	5729.3	5857.4	6034.4	6214.9	6294.0	6133.6	5849.6	5688.1	4927.3
20°	5663.6	5678.0	5772.7	5923.1	6152.5	6439.9	6660.4	6620.3	6296.2	6086.8	5163.5
22.5°	5728.2	5740.4	5830.6	5982.1	6236.0	6606.9	7013.5	7073.6	6767.3	6530.1	5416.3
25°	5908.6	5908.6	5984.3	6090.1	6328.5	6751.7	7311.9	7578.1	7248.5	6972.2	5650.2
27.5°	6252.7	6249.4	6277.2	6314.0	6494.4	6898.7	7578.1	8023.6	7747.4	7445.6	5877.4
30°	6660.4	6682.7	6686.0	6668.2	6752.8	7082.5	7824.3	8493.7	8249.7	7924.5	6110.2
32.5°	7185.0	7199.5	7182.7	7123.7	7111.5	7343.1	8066.0	8986.0	8793.3	8424.6	6322.9
35°	7851.0	7823.2	7770.8	7650.5	7535.8	7691.7	8342.2	9478.2	9403.6	9029.4	6615.8
37.5°	8564.9	8566.1	8501.5	8228.6	8070.4	8137.3	8723.1	10036.2	10142.1	9748.9	6991.2
40°	9137.4	9167.5	9207.6	8849.0	8644.0	8736.5	9207.6	10683.3	11015.3	10602.0	7480.1
42.5°	9537.3	9571.8	9685.4	9460.4	9247.7	9419.2	9777.8	11373.9	11995.4	11586.6	8052.6
45°	9960.5	9979.4	10059.6	9962.7	9826.9	10213.3	10420.5	12088.9	13032.3	12635.8	8693.0
47.5°	10406.0	10426.1	10508.5	10443.9	10372.6	10955.1	11091.0	12762.8	14025.8	13788.6	9376.9
50°	10956.2	10969.6	11047.6	10930.6	10952.9	11514.2	11690.2	13380.9	15067.2	14824.4	10063.0
52.5°	11706.9	11710.3	11818.3	11712.5	11607.8	11924.1	12205.9	13963.4	15883.6	15768.9	10749.1
55°	12295.0	12330.6	12684.8	12662.5	12602.4	12296.1	12636.9	14518.1	16612.0	16666.6	11477.5
57.5°	11919.6	12058.9	12776.1	13281.8	13774.1	13221.6	13219.4	15142.9	17289.2	17547.6	12278.3
60°	10439.4	10628.8	11685.7	12807.3	14347.7	14832.2	14429.0	15905.8	17973.0	18420.8	13281.8
62.5°	7455.6	7767.5	9199.8	10990.8	13561.3	15899.2	16890.4	17116.5	18903.0	19432.1	14586.0
65°	3769.0	4005.1	5205.8	7363.2	10834.8	15201.9	19565.7	19767.3	20519.1	20989.1	16594.2
67.5°	2289.9	2379.0	2964.9	4095.4	6642.6	11841.7	20438.9	24185.7	23646.6	23896.1	19457.7
70°	1687.4	1753.1	2118.4	2719.8	3820.3	6948.9	17759.2	27338.8	26984.6	26956.7	21573.9
72°	1314.3	1362.1	1685.1	2197.5	2793.4	4168.9	12871.9	26174.9	27940.2	27799.9	21380.1
72.5°	1246.3	1288.6	1582.7	2068.3	2639.7	3779.0	11573.3	25389.7	27871.2	27807.7	21129.5
75°	981.2	1011.3	1171.7	1599.4	2066.1	2144.0	6341.8	19676.0	24724.7	25752.7	19004.4
77.5°	811.9	816.4	901.0	1163.9	1610.5	1515.9	3115.2	13651.6	17704.6	18835.1	13462.2
80°	661.6	667.2	707.2	816.4	1218.5	1121.6	1479.1	7849.9	9912.6	9924.9	6402.0
82.5°	526.8	527.9	572.5	597.0	875.4	801.9	847.6	3685.5	4331.5	4166.6	2301.1
85°	370.9	363.1	559.1	490.1	572.5	514.6	467.8	1459.0	1791.0	1713.0	720.6
87.5°	123.6	128.1	248.4	317.4	334.1	291.8	208.3	559.1	676.1	670.5	228.3
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°	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5	3979.5
2.5°	3999.6	3963.9	3911.6	3853.7	3808.0	3761.2	3726.7	3708.9	3688.8	3672.1	3692.2
5°	4041.9	3975.1	3863.7	3754.5	3674.4	3603.1	3551.8	3525.1	3500.6	3483.9	3486.1
7.5°	4111.0	4002.9	3815.8	3656.5	3545.2	3468.3	3416.0	3398.1	3382.5	3378.1	3383.7
10°	4184.5	4025.2	3752.3	3540.7	3413.7	3350.2	3326.9	3339.1	3350.2	3360.3	3371.4
12.5°	4268.0	4045.2	3659.9	3404.8	3296.8	3272.3	3295.7	3349.1	3388.1	3411.5	3426.0
15°	4377.1	4063.1	3552.9	3268.9	3196.5	3224.4	3303.5	3395.9	3463.8	3507.3	3514.0
17.5°	4477.4	4061.9	3416.0	3131.9	3115.2	3196.5	3315.7	3446.0	3537.4	3598.6	3610.9
20°	4581.0	4031.9	3256.7	2998.3	3032.8	3166.5	3321.3	3478.3	3588.6	3659.9	3676.6
22.5°	4677.9	3979.5	3081.8	2876.9	2963.8	3126.4	3300.1	3459.4	3569.7	3627.6	3645.4
25°	4743.6	3888.2	2904.7	2774.4	2902.5	3077.4	3231.1	3359.2	3441.6	3470.5	3475.0
27.5°	4777.0	3769.0	2737.7	2685.3	2839.0	2997.2	3103.0	3166.5	3189.9	3187.6	3183.2
30°	4781.4	3612.0	2594.0	2612.9	2765.5	2879.1	2929.2	2917.0	2886.9	2835.7	2840.1
32.5°	4767.0	3434.9	2473.7	2543.9	2672.0	2735.4	2737.7	2678.6	2598.4	2517.1	2494.9
35°	4771.4	3261.1	2367.9	2465.9	2558.3	2586.2	2560.6	2473.7	2364.5	2259.9	2237.6
37.5°	4820.4	3109.7	2276.6	2375.7	2432.5	2439.2	2402.4	2311.1	2230.9	2128.4	2119.5
40°	4937.4	3001.6	2189.7	2274.3	2306.6	2310.0	2257.6	2193.0	2199.7	2145.1	2144.0
42.5°	5147.9	2954.9	2112.8	2168.5	2188.6	2195.3	2155.2	2113.9	2171.9	2136.2	2124.0
45°	5419.6	2966.0	2048.2	2064.9	2101.7	2132.9	2108.4	2058.3	2080.5	1925.7	1874.5
47.5°	5733.7	3037.3	1997.0	1975.8	2039.3	2098.4	2060.5	1984.8	1905.7	1752.0	1723.0
50°	6101.3	3147.5	1950.2	1887.9	1971.4	2051.6	2013.7	1905.7	1786.5	1711.9	1701.9
52.5°	6484.4	3282.3	1903.4	1791.0	1885.6	2015.9	1997.0	1887.9	1740.8	1667.3	1654.0
55°	6918.8	3418.2	1844.4	1678.5	1793.2	1999.2	1989.2	1823.3	1706.3	1665.1	1655.1
57.5°	7459.0	3573.0	1766.5	1561.5	1706.3	1939.1	1907.9	1784.3	1670.7	1639.5	1636.1
60°	8162.9	3801.3	1654.0	1436.8	1600.5	1846.6	1840.0	1727.5	1613.9	1591.6	1587.1
62.5°	9218.7	4178.9	1499.1	1312.0	1482.4	1689.6	1750.9	1650.6	1553.7	1552.6	1554.8
65°	10856.0	4746.9	1331.0	1202.9	1363.3	1557.1	1647.3	1571.5	1492.5	1514.7	1518.1
67.5°	12753.9	5218.0	1166.1	1096.0	1241.9	1431.2	1553.7	1492.5	1411.2	1469.1	1470.2
70°	13385.4	4797.0	1021.3	990.1	1116.0	1309.8	1452.4	1405.6	1323.2	1381.1	1375.5
72°	12456.5	3872.6	927.8	910.0	1021.3	1209.6	1362.1	1324.3	1243.0	1282.0	1267.5
72.5°	12163.6	3692.2	904.4	889.9	995.7	1183.9	1338.8	1304.2	1222.9	1256.3	1243.0
75°	10850.4	3206.6	777.4	780.8	868.7	1059.2	1207.3	1196.2	1112.7	1116.0	1111.5
77.5°	7869.9	2351.2	654.9	677.2	739.5	931.1	1074.8	1068.1	976.8	960.1	956.7
80°	3652.1	1199.5	533.5	543.5	608.1	778.5	916.6	907.7	834.2	813.1	800.8
82.5°	1250.8	570.3	401.0	407.6	471.1	627.1	795.2	789.7	728.4	687.2	661.6
85°	446.6	284.0	280.7	274.0	336.4	493.4	692.8	662.7	572.5	487.8	485.6
87.5°	144.8	121.4	144.8	143.7	196.0	334.1	503.4	428.8	415.4	345.3	338.6
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)