

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: P383407

Luminaire Tested: **GAN-SA7A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30891.1 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

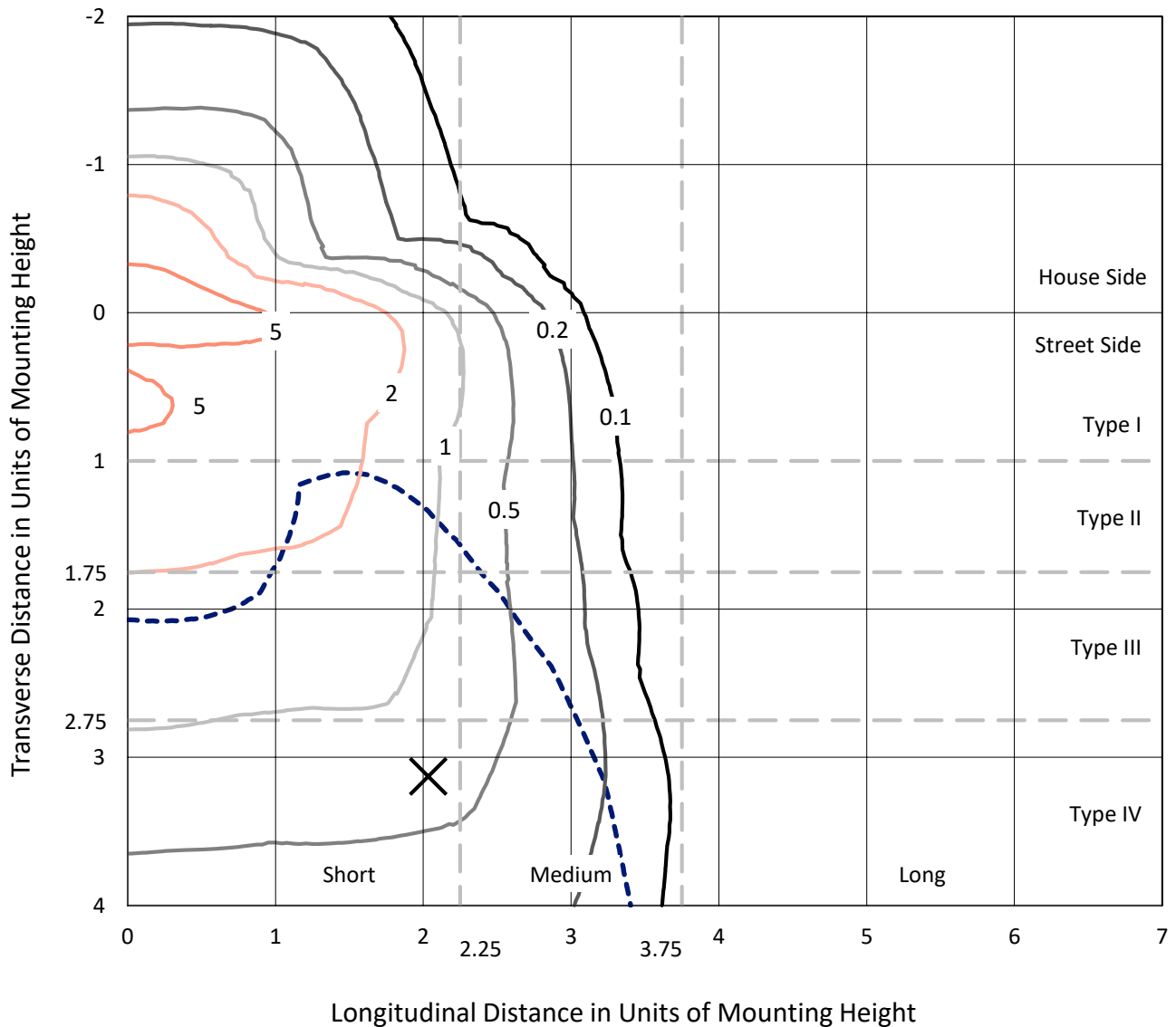
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

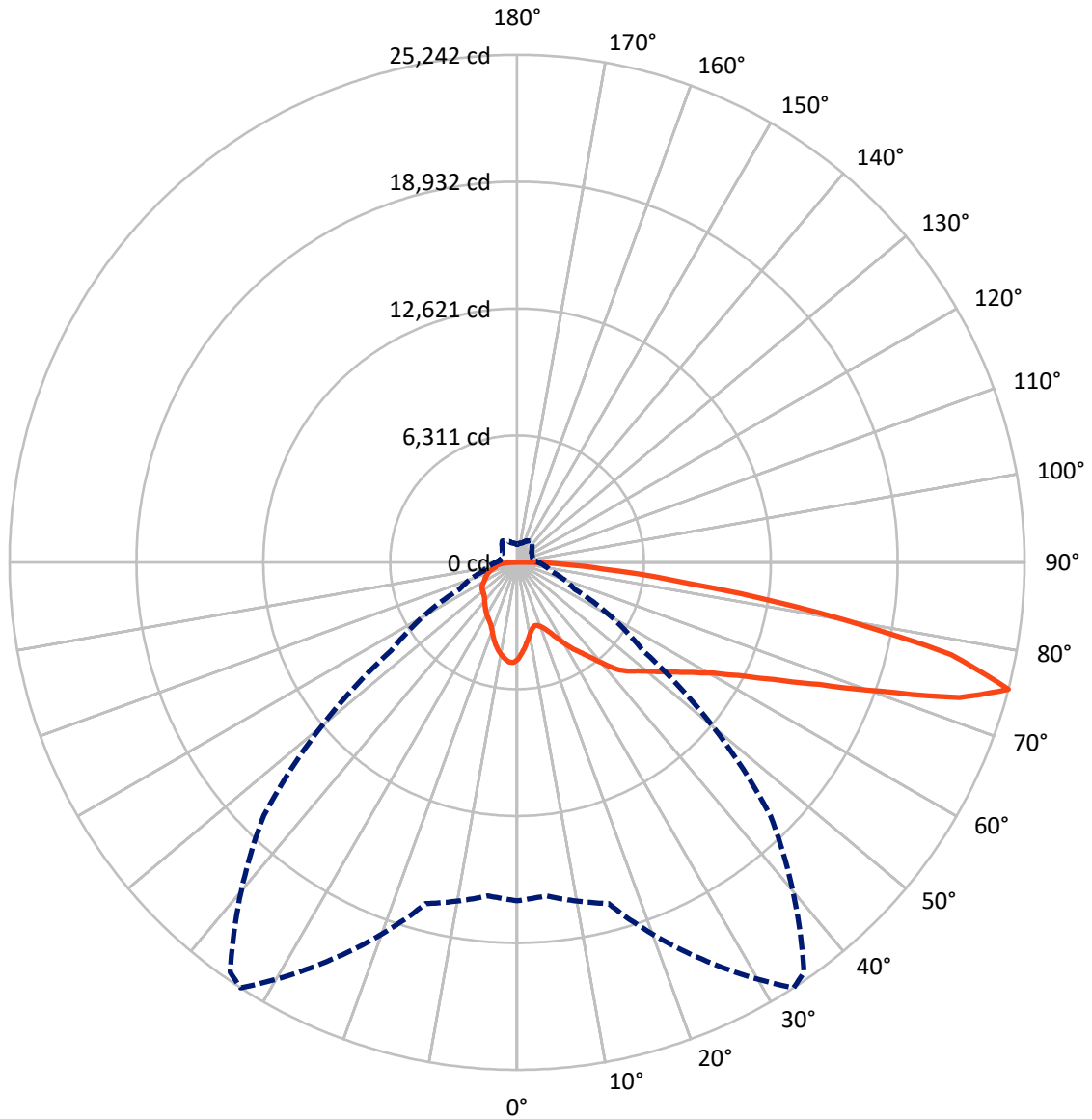
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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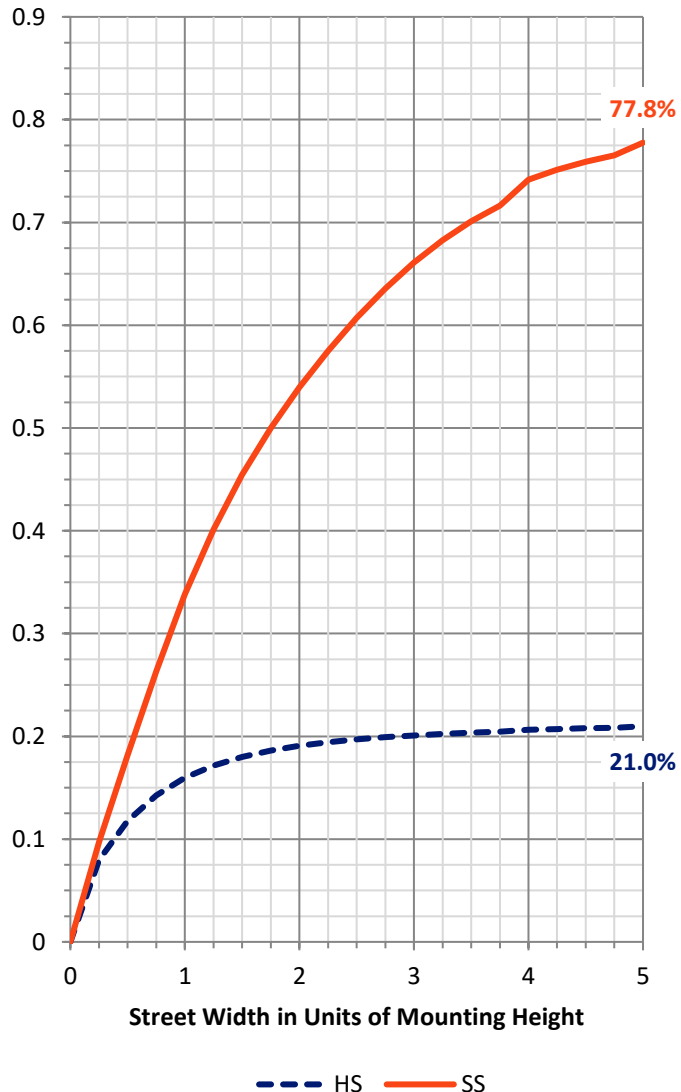
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6633.1	0.0	6633.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	24257.9	0.0	24257.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	30891.1	0.0	30891.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	1.4
10°-20°	1182.7	3.8
20°-30°	1931.5	6.3
30°-40°	2876.5	9.3
40°-50°	4125.6	13.4
50°-60°	5663.9	18.3
60°-70°	7090.9	23.0
70°-80°	6414.8	20.8
80°-90°	1168.5	3.8
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°	30891.1	100.0
0°-180°	30891.1	100.0

Coefficient of Utilization



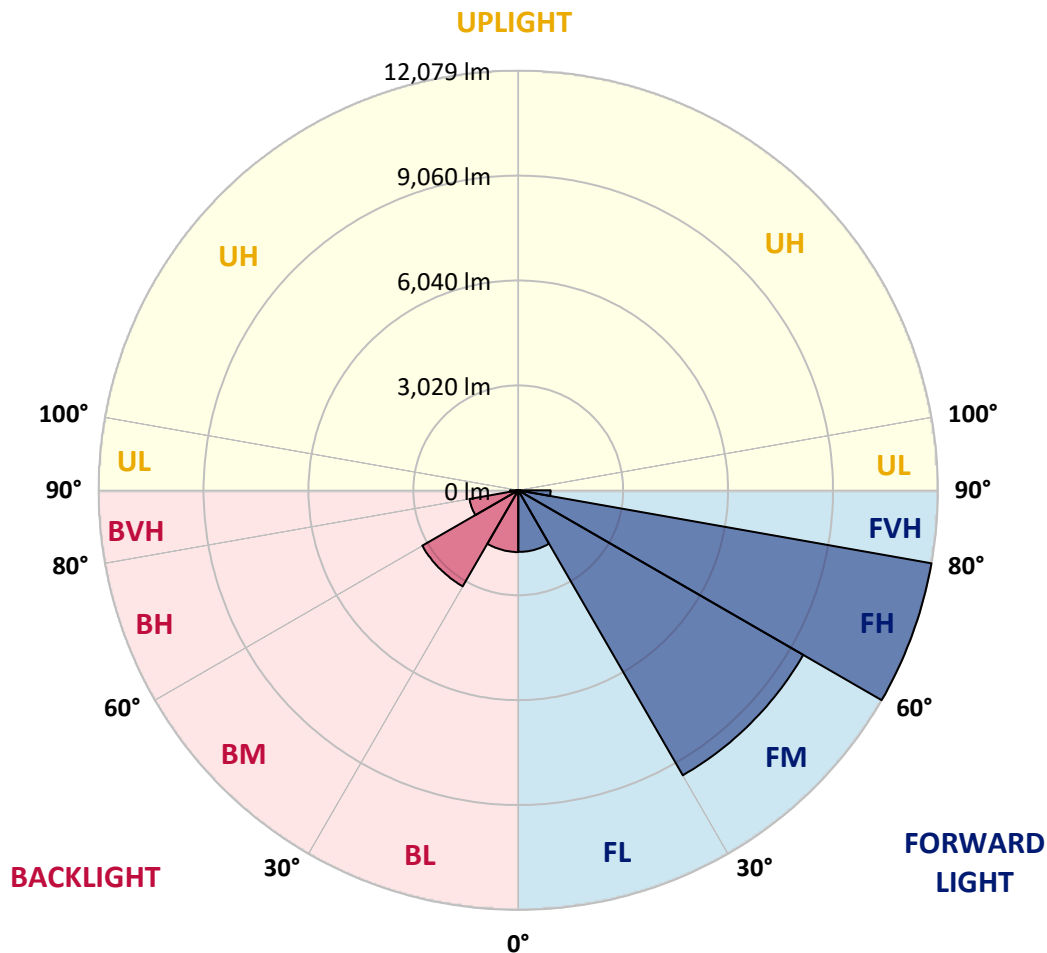
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.2	5.7			
FM (30°-60°)	9473.6	30.7			
FH (60°-80°)	12079.5	39.1			G5
FVH (80°-90°)	930.6	3.0			G5
BL (0°-30°)	1776.7	5.8	B3/2500		
BM (30°-60°)	3192.3	10.3	B3/5000		
BH (60°-80°)	1426.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	237.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5
2.5°	4483.8	4466.7	4498.7	4503.0	4530.8	4541.4	4579.9	4639.6	4688.7	4745.2	4796.4
5°	4077.2	4065.5	4110.3	4142.3	4203.1	4228.8	4319.5	4446.5	4559.6	4687.5	4803.9
7.5°	3691.0	3684.6	3734.7	3807.2	3877.7	3912.9	4069.7	4254.4	4443.2	4650.3	4828.5
10°	3365.5	3363.4	3411.4	3482.9	3586.4	3625.9	3828.6	4071.9	4336.5	4621.4	4870.0
12.5°	3183.0	3190.6	3212.9	3272.7	3368.7	3408.2	3633.3	3919.3	4246.9	4611.8	4930.9
15°	3227.8	3239.5	3201.2	3199.0	3267.3	3298.2	3509.5	3810.5	4182.8	4627.8	5019.5
17.5°	3418.9	3421.0	3319.7	3255.6	3297.2	3313.2	3471.1	3748.5	4145.5	4664.1	5130.4
20°	3687.7	3682.4	3503.2	3396.4	3418.9	3423.2	3525.5	3749.7	4142.3	4727.0	5274.5
22.5°	4044.1	4004.6	3763.5	3618.4	3613.1	3606.7	3665.4	3828.6	4189.3	4829.5	5446.3
25°	4509.4	4472.1	4140.2	3941.8	3899.0	3883.1	3891.5	3997.2	4282.1	4939.4	5638.4
27.5°	5026.9	4961.8	4641.7	4361.0	4272.5	4250.1	4198.9	4235.2	4383.5	5045.1	5866.7
30°	5460.2	5425.0	5145.4	4812.5	4707.9	4675.8	4541.4	4501.9	4529.7	5189.1	6154.8
32.5°	5702.4	5678.9	5509.3	5240.3	5143.3	5098.5	4908.5	4829.5	4764.4	5416.4	6545.3
35°	5995.8	5980.9	5878.4	5683.2	5539.1	5492.1	5344.9	5262.8	5095.2	5729.0	7050.0
37.5°	6369.3	6353.2	6355.4	6197.5	6025.7	5981.9	5884.9	5798.4	5524.2	6139.8	7598.5
40°	6791.8	6760.9	6749.2	6741.7	6632.8	6608.3	6557.1	6439.7	6062.0	6630.7	8139.5
42.5°	7427.8	7317.9	7083.1	7171.7	7279.5	7266.6	7308.3	7139.7	6659.5	7211.2	8667.8
45°	8041.4	7861.1	7455.5	7474.7	7710.6	7782.1	8093.7	7974.1	7307.2	7847.2	9214.0
47.5°	8321.0	8184.4	7839.7	7840.7	8074.5	8222.8	8905.7	8820.4	7988.0	8569.6	9880.9
50°	8633.6	8497.0	8187.6	8303.8	8507.6	8665.6	9690.0	9646.2	8635.7	9360.3	10680.2
52.5°	8975.0	8743.5	8547.1	8755.2	9041.2	9224.7	10475.3	10355.8	9230.1	10156.3	11599.0
55°	8979.3	8916.3	9065.7	9218.3	9646.2	9871.3	11298.0	10982.2	9714.6	10938.4	12346.9
57.5°	9490.4	9388.0	9704.9	9775.3	10334.5	10588.4	12116.5	11527.4	10207.5	11538.1	12750.3
60°	10166.9	10079.4	10338.8	10524.4	11186.0	11525.3	12990.3	12087.7	10594.9	11990.5	12731.1
62.5°	11335.4	11236.1	11233.0	11493.3	12384.3	12779.1	13971.0	12637.2	10748.5	12080.2	12188.0
65°	13045.9	12888.0	12590.2	12714.0	14039.3	14433.0	15066.9	13035.2	10545.8	11600.0	10789.0
67.5°	14710.4	14705.1	14339.1	14593.1	16224.7	16540.5	16315.3	13074.6	9913.0	9927.9	8307.1
70°	16369.8	16391.1	16329.2	17212.8	19177.2	19505.9	17644.9	12544.3	8490.6	7169.6	4976.8
72.5°	17684.4	17679.0	17990.6	20268.8	23009.0	22935.4	18765.3	10937.4	6096.1	3870.2	2378.5
75°	16832.9	16647.2	17575.5	21781.9	25242.3	24882.8	17812.4	7629.5	3163.8	1761.7	1280.5
77.5°	10978.9	11155.0	12517.7	17993.9	22079.6	21642.1	13068.3	3559.7	1490.7	1155.6	928.4
80°	3975.8	4161.5	5861.4	10192.5	15212.0	15140.5	6435.4	1462.9	1008.4	872.9	676.5
82.5°	1368.0	1436.3	2312.3	4526.5	8588.8	8908.9	2421.2	831.2	733.0	618.9	463.1
85°	536.8	614.6	1057.5	2177.9	4332.3	4364.3	980.6	497.3	510.0	405.5	253.9
87.5°	203.8	247.5	505.8	1011.6	1978.3	1817.2	351.1	236.9	290.3	241.2	120.5
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°	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5
2.5°	4835.9	4858.3	4905.3	4937.3	4971.4	4981.1	4985.3	4993.8	5002.4	4999.2	5000.3
5°	4865.8	4909.5	4985.3	5017.3	5032.2	5015.2	4982.1	4955.5	4936.2	4925.6	4922.4
7.5°	4914.8	4976.8	5057.8	5052.5	5018.3	4942.6	4857.3	4793.2	4739.9	4720.7	4710.0
10°	4980.0	5052.5	5109.1	5048.2	4949.0	4817.8	4689.7	4590.5	4510.5	4479.5	4474.2
12.5°	5063.2	5136.8	5147.5	5018.3	4854.0	4674.8	4500.9	4369.6	4250.1	4211.7	4203.1
15°	5170.9	5240.3	5174.2	4966.1	4736.6	4495.6	4270.4	4092.2	3966.3	3919.3	3902.3
17.5°	5284.1	5350.3	5179.5	4879.6	4583.0	4283.2	4000.4	3817.9	3673.9	3619.4	3613.1
20°	5419.6	5449.5	5157.1	4755.9	4371.8	4007.9	3710.2	3538.4	3461.5	3423.2	3418.9
22.5°	5587.1	5555.1	5105.9	4588.3	4103.9	3689.9	3447.7	3367.6	3348.4	3339.9	3343.1
25°	5764.2	5666.0	5030.1	4369.6	3765.7	3371.9	3255.6	3278.0	3303.6	3300.4	3300.4
27.5°	5959.5	5779.2	4913.8	4079.3	3391.1	3111.6	3125.4	3207.6	3246.0	3245.0	3243.8
30°	6210.3	5907.2	4765.5	3730.5	3041.1	2928.0	3012.3	3112.6	3164.9	3162.8	3163.8
32.5°	6518.7	6048.1	4563.8	3341.0	2788.2	2792.5	2889.6	2988.9	3049.7	3044.3	3045.4
35°	6879.3	6206.1	4290.6	2956.8	2620.7	2684.7	2761.6	2830.9	2888.5	2881.1	2873.5
37.5°	7272.0	6360.7	3927.9	2613.3	2484.2	2584.4	2648.5	2660.2	2686.9	2667.7	2653.8
40°	7645.5	6479.2	3460.5	2331.6	2346.5	2499.1	2540.7	2493.8	2445.7	2439.3	2420.1
42.5°	7971.0	6518.7	2987.8	2106.4	2201.3	2409.4	2435.1	2336.9	2250.4	2209.9	2192.8
45°	8314.5	6532.6	2547.0	1917.5	2061.5	2329.4	2357.1	2225.8	2104.3	2016.7	1987.9
47.5°	8763.7	6632.8	2204.5	1777.8	1954.9	2276.1	2315.5	2137.3	1979.4	1854.5	1827.9
50°	9351.7	6831.3	1926.1	1671.0	1885.5	2240.8	2285.6	2050.9	1877.0	1726.5	1699.8
52.5°	10004.7	7013.8	1700.9	1584.6	1818.3	2178.9	2247.3	1989.0	1780.9	1608.0	1579.3
55°	10461.5	6874.0	1519.4	1494.9	1730.8	2090.4	2193.9	1936.7	1643.2	1492.8	1467.2
57.5°	10548.9	6395.9	1381.9	1402.1	1625.2	1979.4	2111.7	1820.4	1568.5	1442.7	1416.0
60°	10309.9	5730.1	1279.4	1316.7	1512.0	1839.6	1958.0	1738.3	1497.1	1389.3	1366.9
62.5°	9709.1	5048.2	1203.7	1239.9	1406.4	1697.7	1862.0	1651.8	1424.5	1328.5	1306.1
65°	8495.9	4238.4	1131.1	1171.6	1308.2	1575.0	1775.6	1571.8	1353.1	1279.4	1258.1
67.5°	6413.1	3174.5	1062.8	1099.0	1220.7	1468.3	1681.7	1492.8	1283.7	1236.7	1211.1
70°	3776.3	1987.9	984.9	1023.3	1128.9	1357.3	1581.4	1406.4	1197.2	1175.9	1142.8
72.5°	1757.5	1196.2	896.3	933.7	1013.7	1209.0	1452.3	1293.3	1094.8	1047.9	1003.0
75°	1048.9	875.0	791.7	824.8	881.4	1051.1	1290.1	1178.0	997.7	935.8	888.9
77.5°	784.3	669.0	676.5	711.7	757.6	919.8	1142.8	1087.3	923.0	875.0	843.0
80°	564.5	507.9	551.7	590.0	638.1	836.5	1094.8	1005.1	834.5	770.4	740.6
82.5°	376.7	365.0	415.1	454.6	501.5	732.0	1028.6	880.3	712.8	631.7	565.5
85°	208.1	219.8	279.6	296.6	337.2	515.4	843.0	707.4	536.8	432.1	413.0
87.5°	86.4	101.4	150.4	145.1	179.2	307.3	554.8	426.8	341.5	255.1	198.5
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)