

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: P319391

Luminaire Tested: **GAN-SA7A-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32291 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

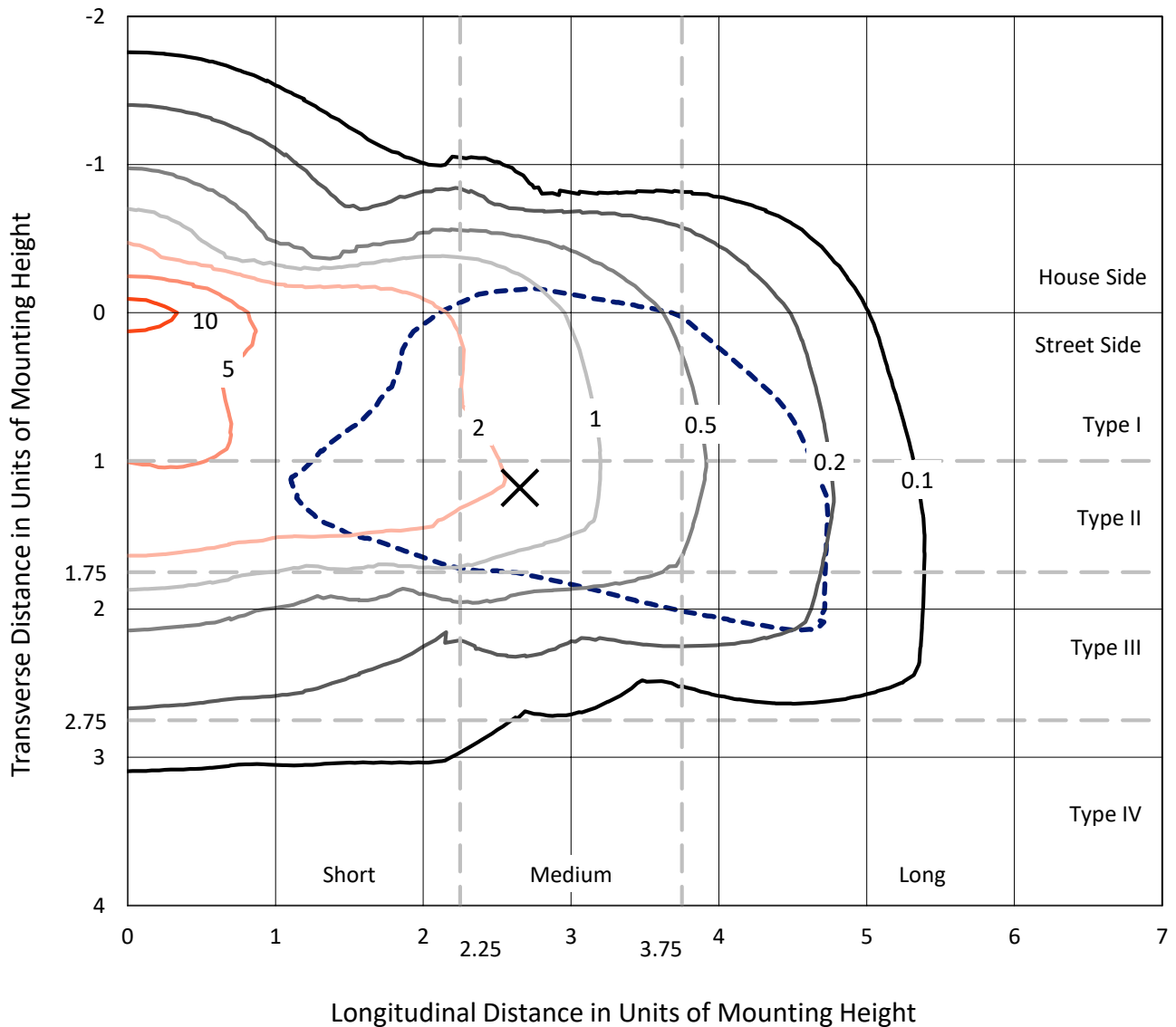
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

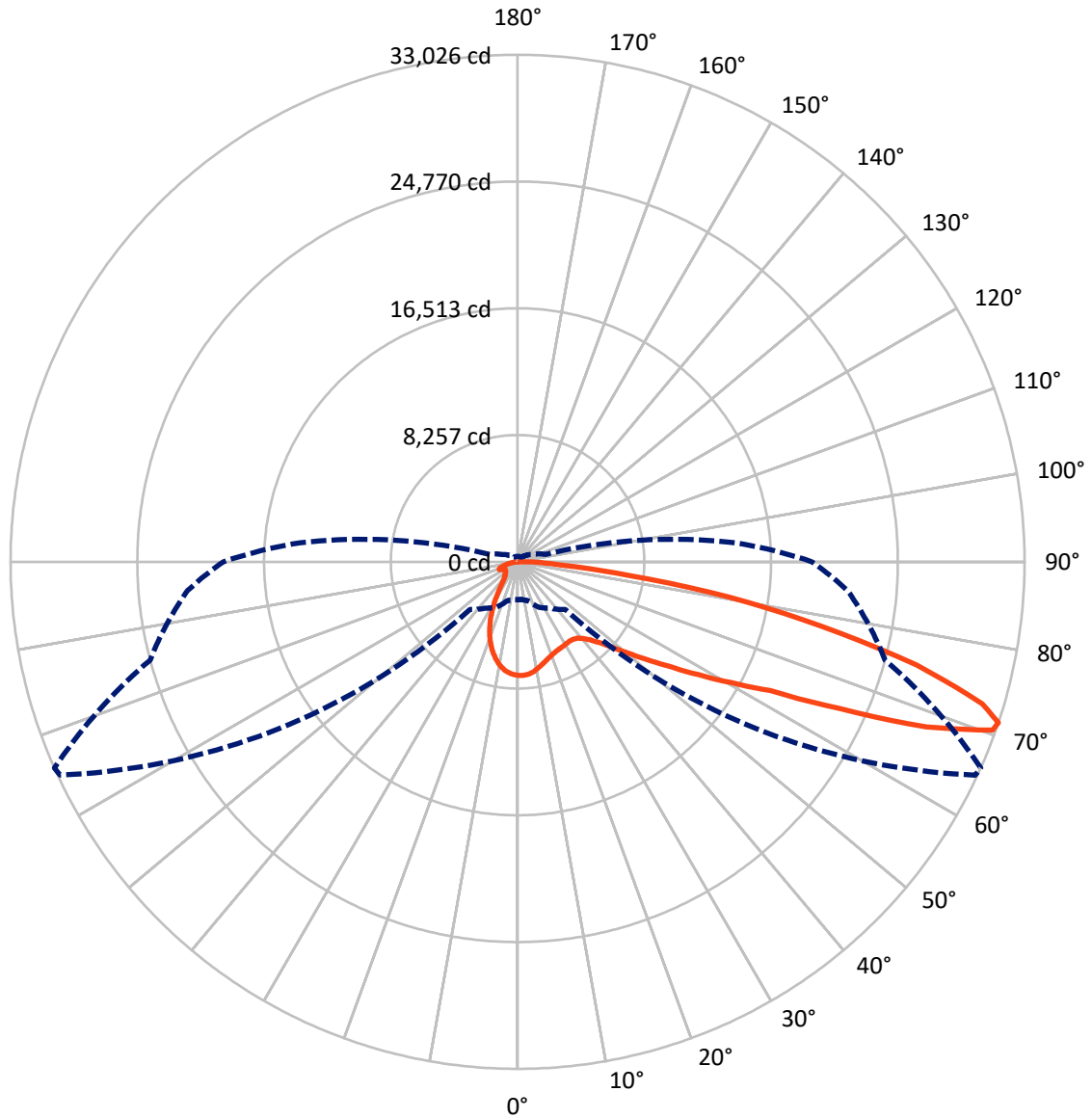
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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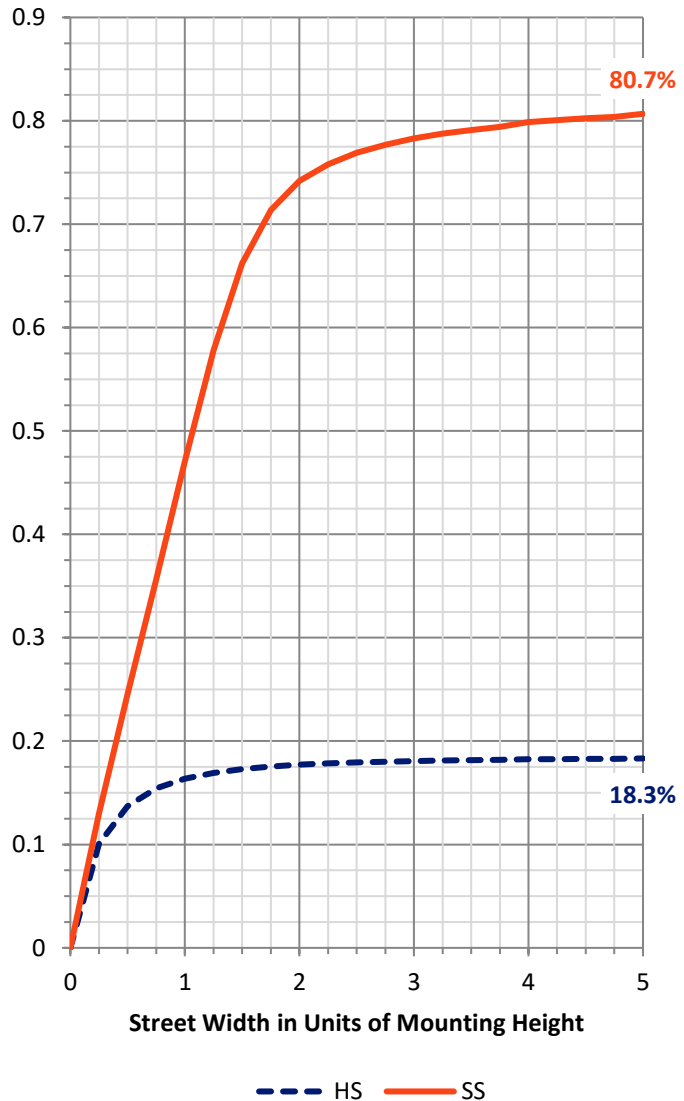
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5984.4	0.0	5984.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26306.6	0.0	26306.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	32291.0	0.0	32291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.1	2.0
10°-20°	1561.7	4.8
20°-30°	2097.8	6.5
30°-40°	2759.6	8.5
40°-50°	4014.4	12.4
50°-60°	6271.0	19.4
60°-70°	7855.4	24.3
70°-80°	5991.9	18.6
80°-90°	1088.1	3.4
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°	32291.0	100.0
0°-180°	32291.0	100.0

Coefficient of Utilization

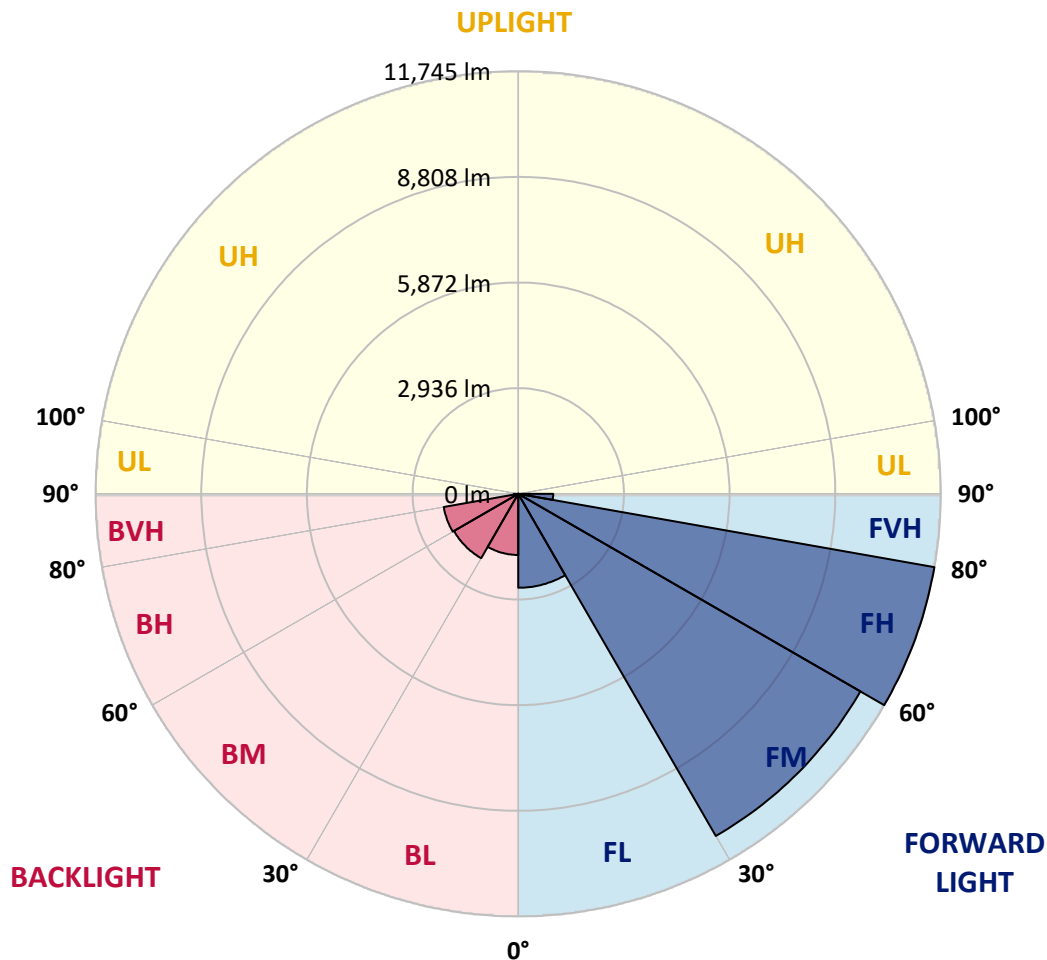


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.2	8.1			
FM (30°-60°)	10980.6	34.0			
FH (60°-80°)	11744.6	36.4			G4/12000
FVH (80°-90°)	970.3	3.0			G5
BL (0°-30°)	1699.4	5.3	B3/2500		
BM (30°-60°)	2064.4	6.4	B2/2500		
BH (60°-80°)	2102.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	117.8	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2
2.5°	7260.1	7249.0	7282.4	7317.0	7330.4	7352.6	7386.1	7405.0	7403.9	7407.3	7396.1
5°	6778.5	6764.0	6830.9	6885.5	6990.3	7108.5	7252.3	7354.9	7357.1	7415.1	7430.7
7.5°	6322.5	6312.5	6389.4	6477.5	6599.0	6779.6	7012.6	7233.4	7246.7	7403.9	7458.6
10°	5956.8	5954.6	6029.3	6125.2	6266.8	6468.5	6736.1	7059.4	7079.5	7350.4	7463.0
12.5°	5671.4	5675.9	5740.5	5849.8	5999.2	6209.9	6499.8	6864.3	6896.7	7265.7	7437.4
15°	5460.7	5478.5	5530.9	5641.3	5788.5	6002.5	6300.2	6683.7	6732.8	7170.9	7422.9
17.5°	5340.3	5360.4	5397.1	5488.6	5626.8	5833.1	6115.1	6535.4	6580.0	7098.5	7424.0
20°	5304.6	5321.3	5342.5	5398.3	5515.3	5702.6	5969.1	6401.7	6449.6	7040.5	7435.1
22.5°	5374.8	5387.1	5389.3	5384.9	5456.2	5609.0	5863.2	6303.5	6354.8	7002.6	7443.0
25°	5525.4	5542.1	5529.8	5488.6	5465.2	5558.8	5808.5	6238.9	6290.2	6974.7	7427.3
27.5°	5751.7	5753.9	5743.9	5690.4	5580.0	5564.4	5791.8	6201.0	6250.0	6942.4	7395.0
30°	6059.4	6073.9	6056.0	5983.6	5803.0	5653.6	5811.9	6164.2	6208.8	6901.1	7342.6
32.5°	6419.5	6455.2	6454.1	6378.2	6119.6	5853.1	5894.4	6141.9	6176.4	6857.6	7279.1
35°	6793.0	6842.0	6933.5	6901.1	6581.1	6168.6	6052.7	6177.6	6201.0	6852.1	7234.5
37.5°	7181.0	7230.0	7418.4	7505.4	7130.8	6620.2	6302.4	6303.5	6314.7	6920.1	7231.1
40°	7586.8	7639.2	7922.4	8148.7	7843.2	7192.1	6704.9	6566.7	6554.4	7087.3	7296.9
42.5°	8155.4	8202.2	8542.2	8831.0	8633.6	7924.6	7261.2	6972.5	6946.8	7415.1	7507.6
45°	8874.5	8914.6	9275.8	9584.6	9483.2	8760.7	7960.3	7531.0	7526.6	7961.4	7934.6
47.5°	9729.6	9760.8	10085.2	10384.0	10420.8	9722.9	8838.8	8392.8	8320.4	8710.6	8595.7
50°	10620.4	10654.9	10875.7	11196.8	11469.9	11010.6	9969.3	9448.6	9351.6	9699.5	9532.2
52.5°	11210.1	11255.9	11447.6	11854.5	12649.5	12422.0	11306.0	10728.5	10581.3	10898.0	10769.8
55°	10947.0	11049.6	11342.8	11995.0	13592.6	14578.2	12954.9	12221.3	12055.2	12318.3	12242.5
57.5°	9750.8	9891.2	10291.5	11298.2	13725.3	16478.0	15447.8	13979.5	13862.4	13786.6	13821.2
60°	7564.5	7699.4	8195.5	9507.7	12801.1	17864.9	19199.4	16146.8	15977.4	15260.5	15291.7
62.5°	5353.7	5285.7	5625.7	6585.6	10401.9	18027.6	23468.3	19045.5	18488.1	16816.9	16679.8
65°	4082.7	4067.1	4219.8	4525.3	6300.2	16079.9	26011.3	23917.6	23046.8	18647.5	18324.2
67.5°	3354.7	3326.8	3477.3	3922.2	4057.1	10374.0	26067.1	29570.0	28714.9	20926.3	20226.2
70°	2758.2	2727.0	2867.5	3441.6	3749.3	5261.1	21938.7	32880.1	32834.4	23811.7	21662.2
71°	2472.8	2450.5	2618.9	3256.6	3683.6	4384.8	18941.8	32889.0	33026.2	24788.3	21577.4
72.5°	2013.5	2021.3	2199.7	2898.7	3634.5	3872.0	13921.5	31356.1	31645.9	25719.2	20807.0
75°	1337.9	1344.5	1578.7	2229.8	3524.1	3788.4	7651.4	26311.2	26844.1	25161.8	18986.4
77.5°	898.6	896.4	1055.8	1529.6	3070.4	3788.4	4486.3	19678.8	20264.1	20021.1	14637.3
80°	618.8	614.3	726.9	1055.8	2324.5	3834.1	3468.4	13791.1	13968.4	10812.1	5949.0
82.5°	379.1	382.4	474.9	745.9	1582.0	3450.6	3274.4	7519.9	7327.0	3032.5	1486.1
85°	217.4	216.3	303.2	505.0	1015.7	2912.1	3193.0	3236.5	2968.9	913.1	537.4
87.5°	78.0	83.6	162.8	279.8	582.0	2028.0	2709.2	1683.5	1517.4	412.5	243.0
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°	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2	7397.2
2.5°	7388.3	7395.0	7387.2	7342.6	7304.7	7243.4	7208.8	7160.9	7146.4	7139.7	7157.5
5°	7416.2	7418.4	7352.6	7235.6	7104.0	6949.1	6837.6	6700.4	6635.8	6607.9	6625.7
7.5°	7441.8	7431.8	7288.0	7063.9	6820.8	6551.0	6311.3	6091.7	5963.5	5911.1	5915.6
10°	7445.2	7402.8	7172.0	6825.3	6448.5	6052.7	5684.8	5345.9	5131.8	4992.4	5034.8
12.5°	7410.6	7339.3	7001.5	6516.5	5993.6	5454.0	4956.8	4448.4	4142.9	4001.3	4005.8
15°	7383.9	7254.5	6791.9	6153.0	5450.7	4736.0	4057.1	3459.5	3133.9	2989.0	2921.0
17.5°	7361.6	7163.1	6548.8	5743.9	4809.6	3903.2	3087.1	2554.2	2375.8	2333.4	2315.6
20°	7330.4	7066.1	6277.9	5270.0	4079.4	2971.2	2254.3	1991.2	1992.3	2041.3	2048.0
22.5°	7286.9	6955.7	5989.1	4738.2	3295.6	2164.0	1767.1	1691.3	1768.2	1861.9	1878.6
25°	7222.2	6825.3	5668.1	4150.7	2512.9	1663.4	1509.6	1506.2	1599.9	1698.0	1712.5
27.5°	7130.8	6654.7	5311.3	3519.7	1851.8	1413.7	1352.4	1375.8	1444.9	1516.2	1521.8
30°	7008.1	6456.3	4917.7	2854.1	1451.6	1258.7	1252.0	1273.2	1315.6	1365.7	1370.2
32.5°	6873.2	6254.5	4497.4	2209.7	1243.1	1175.1	1181.8	1191.8	1211.9	1231.9	1236.4
35°	6750.6	6048.2	4067.1	1679.0	1143.9	1120.5	1116.0	1113.8	1116.0	1109.3	1110.4
37.5°	6671.5	5877.7	3618.9	1336.7	1087.0	1072.5	1059.1	1042.4	1023.5	1012.3	1014.5
40°	6642.5	5750.6	3165.2	1155.0	1040.2	1030.2	1004.5	968.8	946.5	939.8	939.8
42.5°	6720.5	5684.8	2727.0	1063.6	1001.2	984.4	942.1	900.8	884.1	883.0	881.9
45°	6959.1	5711.5	2310.0	1013.4	965.5	933.2	877.4	842.9	831.7	833.9	832.8
47.5°	7387.2	5879.9	1953.3	980.0	929.8	887.4	825.0	797.1	783.8	783.8	784.9
50°	8115.2	6273.4	1669.0	952.1	899.7	845.1	787.1	752.5	734.7	733.6	733.6
52.5°	9175.5	6978.0	1491.7	928.7	866.3	807.2	749.2	705.7	684.5	680.1	677.8
55°	10504.4	7988.1	1442.7	913.1	821.7	765.9	703.5	660.0	636.6	626.6	625.4
57.5°	11990.6	9216.7	1539.7	894.1	776.0	716.9	653.3	612.1	587.5	575.3	574.2
60°	13494.5	10557.9	1935.4	867.4	738.1	663.4	602.0	564.1	539.6	526.2	524.0
62.5°	15000.7	11971.6	2743.7	865.1	711.3	612.1	549.6	517.3	493.9	479.4	476.1
65°	16699.8	13519.1	3662.4	924.2	702.4	565.2	496.1	470.5	450.4	437.0	435.9
67.5°	18650.9	15266.1	3574.3	1045.8	732.5	522.9	446.0	425.9	411.4	400.2	399.1
70°	19566.2	14992.9	2222.0	1131.6	774.8	481.6	398.0	383.5	372.4	364.6	361.2
71°	19182.7	14235.9	1863.0	1121.6	770.4	463.8	379.1	367.9	356.8	350.1	346.7
72.5°	18136.9	12982.8	1554.1	1043.5	720.2	431.5	354.5	343.4	333.3	325.5	323.3
75°	16275.0	11594.8	1244.2	833.9	574.2	364.6	311.1	298.8	291.0	286.5	282.1
77.5°	11963.8	8274.7	962.1	658.9	422.5	297.7	265.3	256.4	248.6	241.9	238.6
80°	4583.3	3205.3	647.7	491.7	309.9	235.2	214.1	209.6	201.8	197.3	197.3
82.5°	1234.2	957.7	345.6	297.7	207.4	171.7	163.9	161.7	155.0	146.0	147.2
85°	499.5	422.5	194.0	163.9	127.1	101.5	110.4	111.5	103.7	92.5	93.7
87.5°	219.6	179.5	108.1	72.5	55.7	39.0	50.2	50.2	45.7	37.9	34.6
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)