

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: P318784

Luminaire Tested: **GAN-SA0D-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318784
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-SA0D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA 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: 77260 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

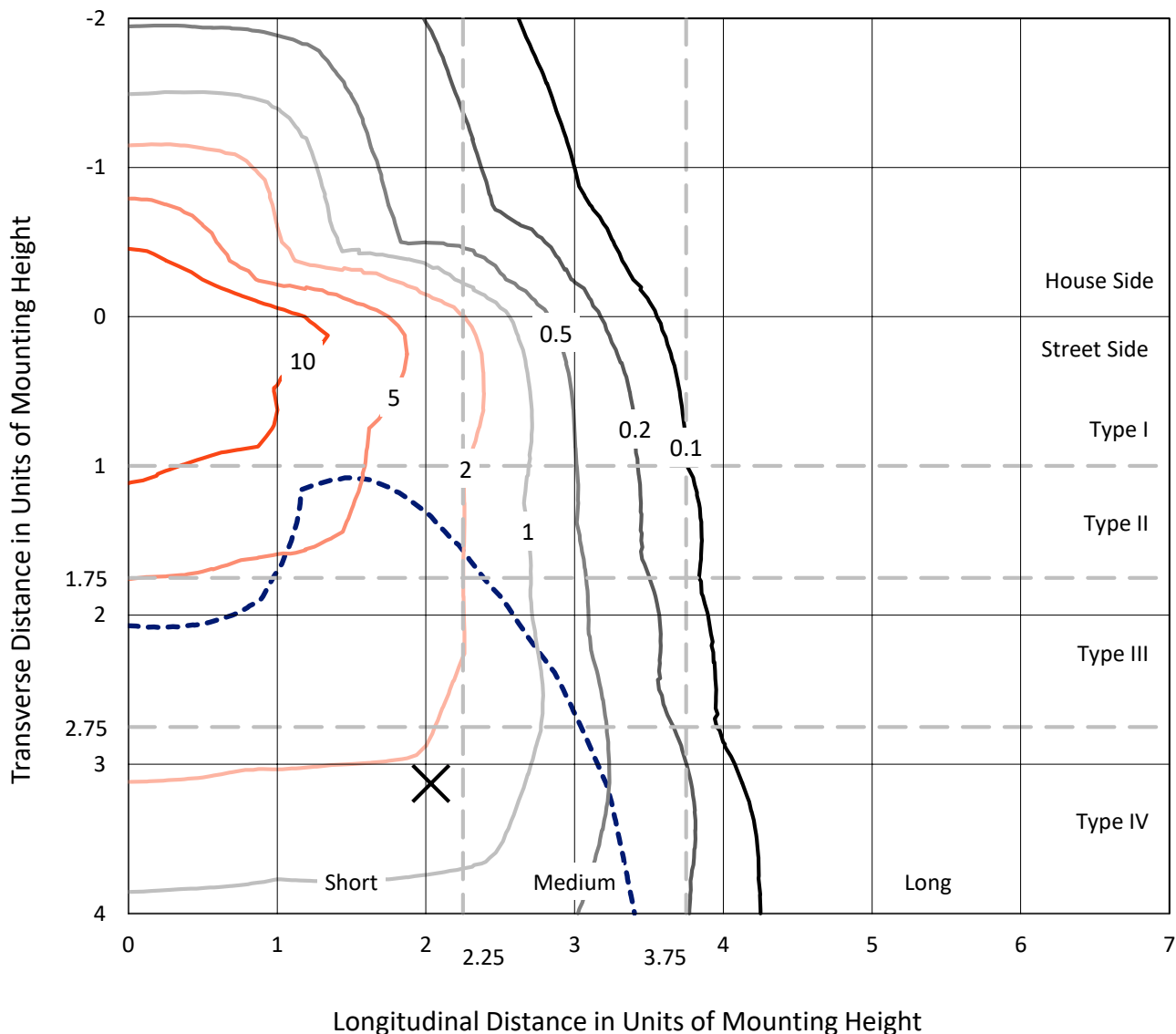
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318784
 CATALOG NUMBER: GAN-SA0D-750-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

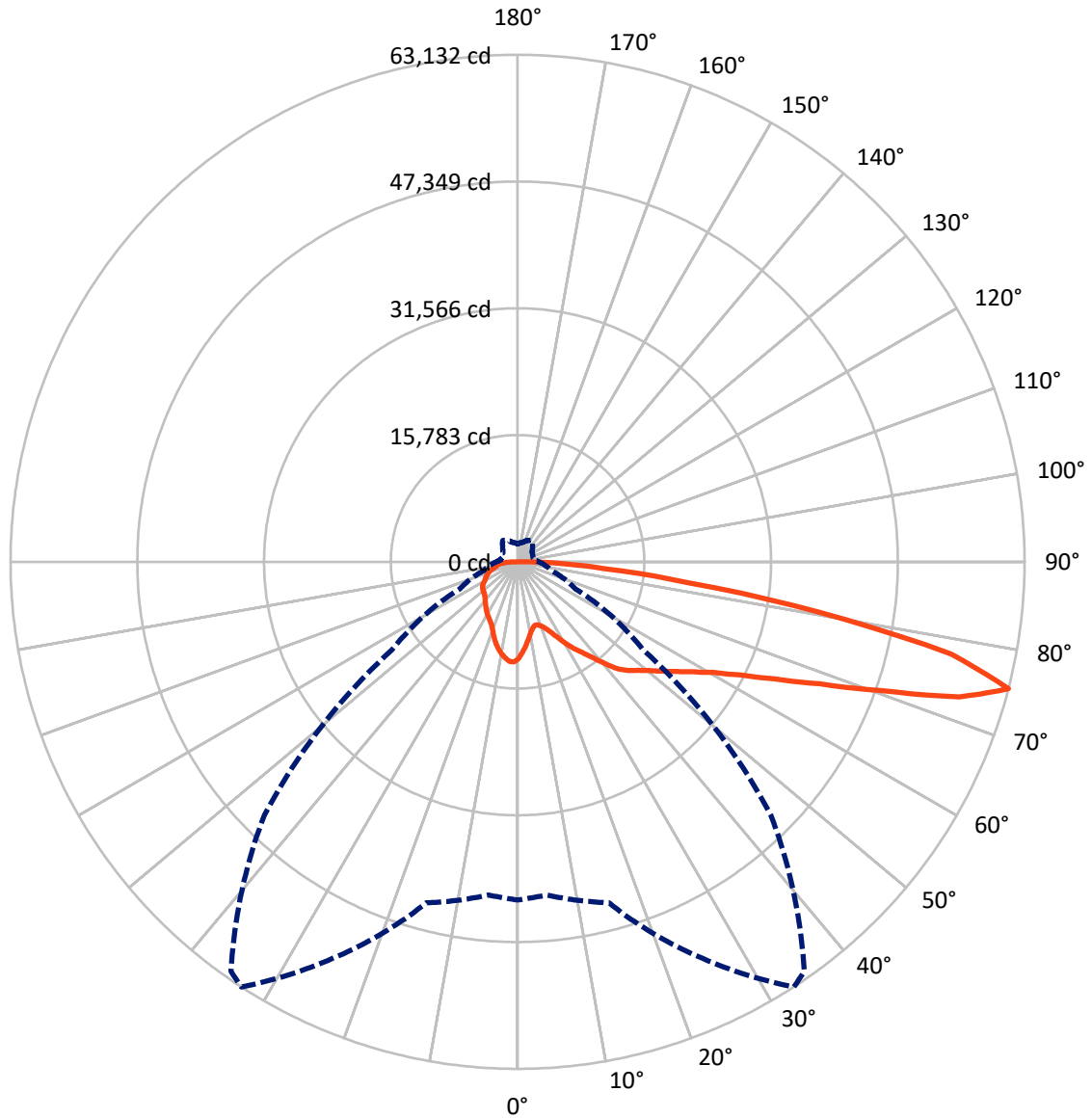
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318784
CATALOG NUMBER: GAN-SA0D-750-U-T4FT

Luminous Intensity Polar Plot



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

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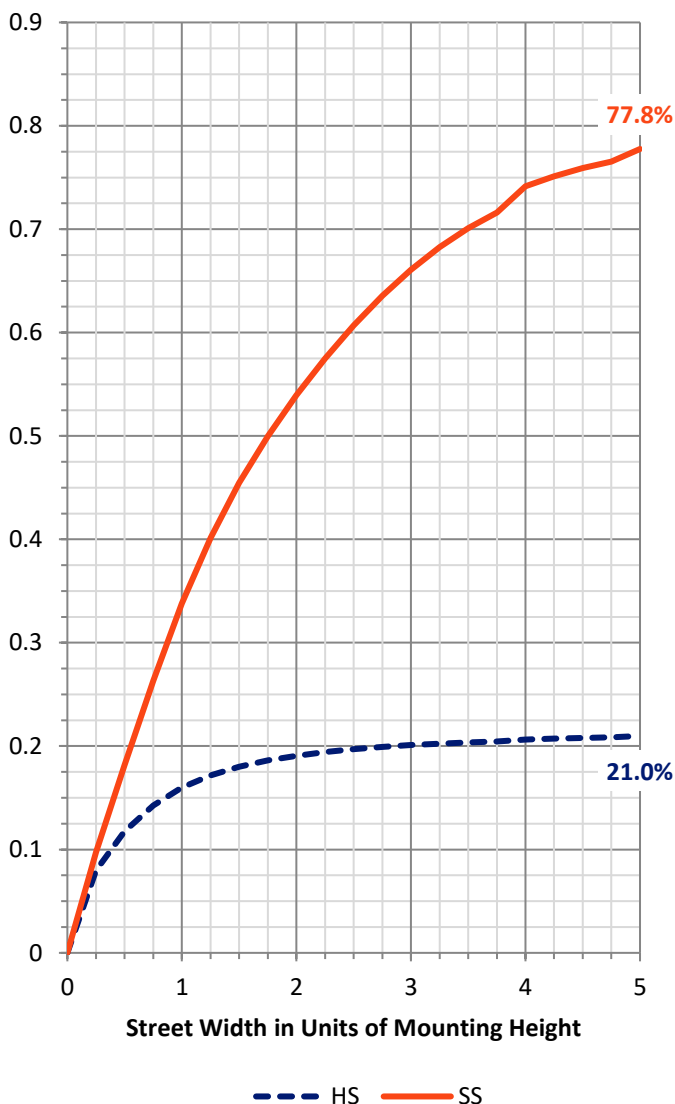
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16589.7	0.0	16589.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	60670.3	0.0	60670.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	77260.0	0.0	77260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.1	1.4
10°-20°	2958.0	3.8
20°-30°	4830.8	6.3
30°-40°	7194.2	9.3
40°-50°	10318.4	13.4
50°-60°	14165.6	18.3
60°-70°	17734.7	23.0
70°-80°	16043.7	20.8
80°-90°	2922.5	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°	77260.0	100.0
0°-180°	77260.0	100.0

Coefficient of Utilization

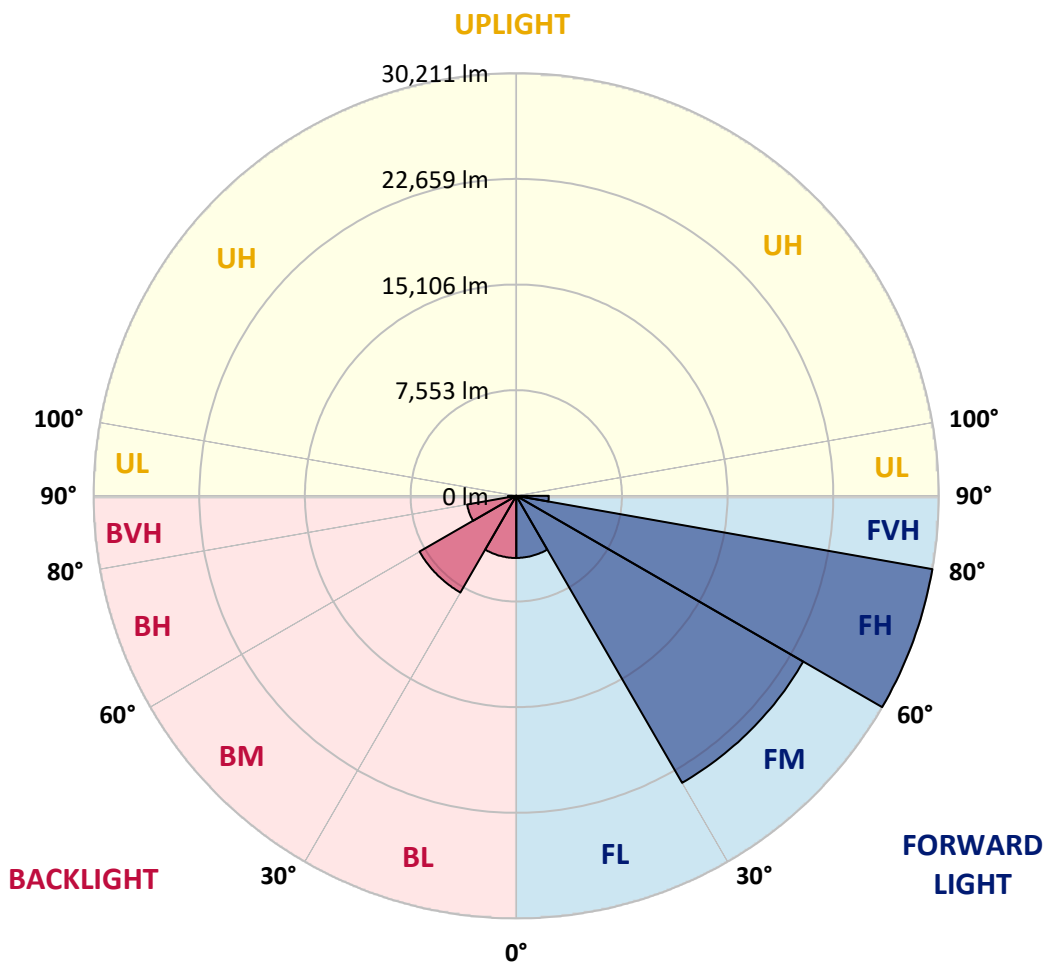


REPORT NUMBER: P318784
 CATALOG NUMBER: GAN-SA0D-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4437.4	5.7			
FM (30°-60°)	23694.0	30.7			
FH (60°-80°)	30211.3	39.1			G5
FVH (80°-90°)	2327.5	3.0			G5
BL (0°-30°)	4443.5	5.8	B4/5000		
BM (30°-60°)	7984.2	10.3	B4/8500		
BH (60°-80°)	3567.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	595.0	0.8			G4/750
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°	33°	35°	45°	55°	65°	75°	85°
0°	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2
2.5°	11214.2	11171.5	11251.5	11262.2	11331.6	11358.3	11454.3	11603.8	11726.6	11868.0	11996.1
5°	10197.4	10168.0	10280.1	10360.2	10512.3	10576.3	10803.2	11120.8	11403.6	11723.9	12014.8
7.5°	9231.3	9215.3	9340.7	9522.2	9698.3	9786.4	10178.7	10640.4	11112.7	11630.5	12076.2
10°	8417.3	8412.0	8532.0	8710.9	8969.7	9068.5	9575.5	10184.0	10845.9	11558.4	12180.3
12.5°	7960.9	7979.6	8035.7	8185.1	8425.3	8524.0	9087.2	9802.4	10621.7	11534.4	12332.4
15°	8073.0	8102.4	8006.3	8001.0	8171.8	8249.2	8777.6	9530.2	10461.6	11574.4	12553.9
17.5°	8550.7	8556.1	8302.5	8142.4	8246.5	8286.5	8681.5	9375.4	10368.2	11665.2	12831.4
20°	9223.3	9209.9	8761.6	8494.7	8550.7	8561.4	8817.6	9378.0	10360.2	11822.6	13191.7
22.5°	10114.6	10015.9	9412.7	9049.8	9036.4	9020.4	9167.2	9575.5	10477.6	12078.8	13621.4
25°	11278.2	11184.8	10354.8	9858.4	9751.7	9711.6	9733.0	9997.2	10709.8	12353.7	14101.8
27.5°	12572.6	12409.8	11609.1	10907.3	10685.7	10629.7	10501.6	10592.3	10963.3	12617.9	14672.9
30°	13656.1	13568.0	12868.8	12036.1	11774.6	11694.5	11358.3	11259.5	11328.9	12978.2	15393.4
32.5°	14261.9	14203.2	13778.8	13106.3	12863.5	12751.4	12276.3	12078.8	11916.0	13546.7	16370.2
35°	14995.8	14958.4	14702.2	14213.9	13853.6	13736.1	13367.9	13162.4	12743.4	14328.6	17632.5
37.5°	15929.9	15889.8	15895.2	15500.2	15070.5	14961.1	14718.3	14502.1	13816.2	15356.1	19004.3
40°	16986.7	16909.3	16880.0	16861.3	16589.1	16527.7	16399.6	16106.0	15161.3	16583.7	20357.4
42.5°	18577.3	18302.4	17715.3	17936.8	18206.3	18174.3	18278.4	17856.7	16655.8	18035.5	21678.4
45°	20111.8	19660.8	18646.7	18694.7	19284.5	19463.3	20242.6	19943.7	18275.7	19626.1	23044.8
47.5°	20811.0	20469.4	19607.4	19610.1	20194.6	20565.5	22273.5	22060.0	19978.4	21432.9	24712.8
50°	21593.0	21251.4	20477.5	20768.3	21278.1	21673.1	24235.1	24125.7	21598.3	23410.4	26711.7
52.5°	22447.0	21867.9	21376.8	21897.2	22612.5	23071.5	26199.3	25900.4	23084.8	25401.3	29009.5
55°	22457.7	22300.2	22673.8	23055.5	24125.7	24688.8	28256.9	27467.0	24296.5	27357.5	30880.3
57.5°	23736.0	23479.8	24272.4	24448.6	25847.0	26482.2	30303.9	28830.7	25529.4	28857.4	31889.1
60°	25428.0	25209.2	25857.7	26322.0	27976.7	28825.4	32489.6	30231.8	26498.2	29988.9	31841.1
62.5°	28350.3	28102.1	28094.1	28745.3	30973.7	31961.2	34942.2	31606.2	26882.5	30213.1	30482.7
65°	32628.3	32233.4	31488.8	31798.4	35113.0	36097.7	37683.0	32601.7	26375.4	29012.2	26983.9
67.5°	36791.6	36778.3	35862.9	36498.1	40578.6	41368.6	40805.4	32700.4	24792.8	24830.2	20776.4
70°	40941.6	40994.9	40840.1	43049.9	47963.1	48785.1	44130.7	31374.0	21235.4	17931.4	12447.1
72.5°	44229.5	44216.1	44995.4	50693.2	57546.6	57362.5	46932.9	27354.9	15246.7	9679.6	5948.7
75°	42099.8	41635.4	43957.3	54477.5	63132.4	62233.0	44549.7	19081.7	7912.9	4406.1	3202.5
77.5°	27458.9	27899.3	31307.3	45003.4	55222.1	54127.9	32684.4	8903.0	3728.3	2890.3	2321.8
80°	9943.8	10408.2	14659.5	25492.1	38045.9	37867.1	16095.3	3658.9	2522.0	2183.1	1692.0
82.5°	3421.4	3592.2	5783.2	11320.9	21480.9	22281.5	6055.4	2079.0	1833.4	1547.9	1158.2
85°	1342.4	1537.2	2644.7	5447.0	10835.2	10915.3	2452.6	1243.6	1275.7	1014.1	635.2
87.5°	509.7	619.2	1265.0	2530.0	4947.9	4544.9	878.0	592.5	725.9	603.1	301.6
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°	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2	12076.2
2.5°	12094.9	12150.9	12268.3	12348.4	12433.8	12457.8	12468.5	12489.8	12511.2	12503.2	12505.8
5°	12169.6	12279.0	12468.5	12548.5	12585.9	12543.2	12460.5	12393.8	12345.7	12319.0	12311.0
7.5°	12292.3	12447.1	12650.0	12636.6	12551.2	12361.7	12148.2	11988.1	11854.7	11806.6	11779.9
10°	12455.1	12636.6	12778.1	12625.9	12377.7	12049.5	11729.2	11481.0	11280.9	11203.5	11190.1
12.5°	12663.3	12847.4	12874.1	12551.2	12140.2	11691.9	11256.9	10928.6	10629.7	10533.6	10512.3
15°	12932.8	13106.3	12940.9	12420.4	11846.7	11243.5	10680.4	10234.7	9919.8	9802.4	9759.7
17.5°	13215.7	13381.2	12954.2	12204.3	11462.4	10712.4	10005.2	9548.8	9188.6	9052.5	9036.4
20°	13554.7	13629.4	12898.2	11894.7	10933.9	10023.9	9279.3	8849.6	8657.5	8561.4	8550.7
22.5°	13973.7	13893.6	12770.1	11475.7	10264.1	9228.6	8622.8	8422.6	8374.6	8353.2	8361.2
25°	14416.7	14171.2	12580.6	10928.6	9418.1	8433.3	8142.4	8198.5	8262.5	8254.5	8254.5
27.5°	14905.1	14454.0	12289.7	10202.7	8481.3	7782.1	7816.8	8022.3	8118.4	8115.7	8113.1
30°	15532.2	14774.3	11918.7	9330.0	7606.0	7323.1	7533.9	7784.8	7915.6	7910.2	7912.9
32.5°	16303.5	15126.6	11414.3	8355.9	6973.5	6984.2	7227.0	7475.2	7627.3	7614.0	7616.7
35°	17205.5	15521.5	10731.1	7395.2	6554.5	6714.6	6906.8	7080.2	7224.4	7205.7	7187.0
37.5°	18187.6	15908.5	9823.7	6535.8	6212.9	6463.8	6623.9	6653.2	6720.0	6671.9	6637.2
40°	19121.7	16204.8	8654.8	5831.3	5868.6	6250.3	6354.3	6236.9	6116.8	6100.8	6052.8
42.5°	19935.7	16303.5	7472.5	5268.1	5505.7	6026.1	6090.1	5844.6	5628.4	5527.0	5484.3
45°	20795.0	16338.2	6370.3	4795.8	5156.1	5825.9	5895.3	5567.0	5262.8	5044.0	4971.9
47.5°	21918.6	16589.1	5513.7	4446.2	4889.2	5692.5	5791.2	5345.5	4950.6	4638.3	4571.6
50°	23389.1	17085.4	4817.1	4179.3	4715.7	5604.4	5716.5	5129.4	4694.4	4318.1	4251.3
52.5°	25022.4	17541.8	4254.0	3963.1	4547.6	5449.6	5620.4	4974.6	4454.2	4021.8	3949.8
55°	26164.6	17192.2	3800.3	3738.9	4328.7	5228.1	5487.0	4843.8	4109.9	3733.6	3669.6
57.5°	26383.4	15996.6	3456.1	3506.8	4064.5	4950.6	5281.5	4552.9	3923.1	3608.2	3541.5
60°	25785.6	14331.3	3199.9	3293.3	3781.6	4601.0	4897.2	4347.4	3744.3	3474.7	3418.7
62.5°	24283.1	12625.9	3010.4	3101.1	3517.4	4246.0	4657.0	4131.3	3562.8	3322.6	3266.6
65°	21248.7	10600.3	2828.9	2930.3	3271.9	3939.1	4440.8	3931.1	3384.0	3199.9	3146.5
67.5°	16039.3	7939.6	2658.1	2748.8	3053.1	3672.2	4206.0	3733.6	3210.5	3093.1	3029.1
70°	9444.8	4971.9	2463.3	2559.3	2823.6	3394.7	3955.1	3517.4	2994.4	2941.0	2858.2
72.5°	4395.5	2991.7	2241.8	2335.2	2535.3	3023.7	3632.2	3234.5	2738.2	2620.7	2508.6
75°	2623.4	2188.4	1980.2	2063.0	2204.4	2628.7	3226.5	2946.3	2495.3	2340.5	2223.1
77.5°	1961.5	1673.3	1692.0	1780.1	1894.8	2300.5	2858.2	2719.5	2308.5	2188.4	2108.3
80°	1411.8	1270.3	1379.8	1475.8	1595.9	2092.3	2738.2	2514.0	2087.0	1926.8	1852.1
82.5°	942.1	912.7	1038.2	1136.9	1254.3	1830.8	2572.7	2201.7	1782.7	1579.9	1414.4
85°	520.4	549.8	699.2	741.9	843.3	1289.0	2108.3	1769.4	1342.4	1080.9	1032.8
87.5°	216.2	253.5	376.3	363.0	448.4	768.6	1387.8	1067.5	854.0	637.8	496.4
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)