

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: P318743

Luminaire Tested: **GAN-SA9D-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318743
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-SA9D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 69783 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

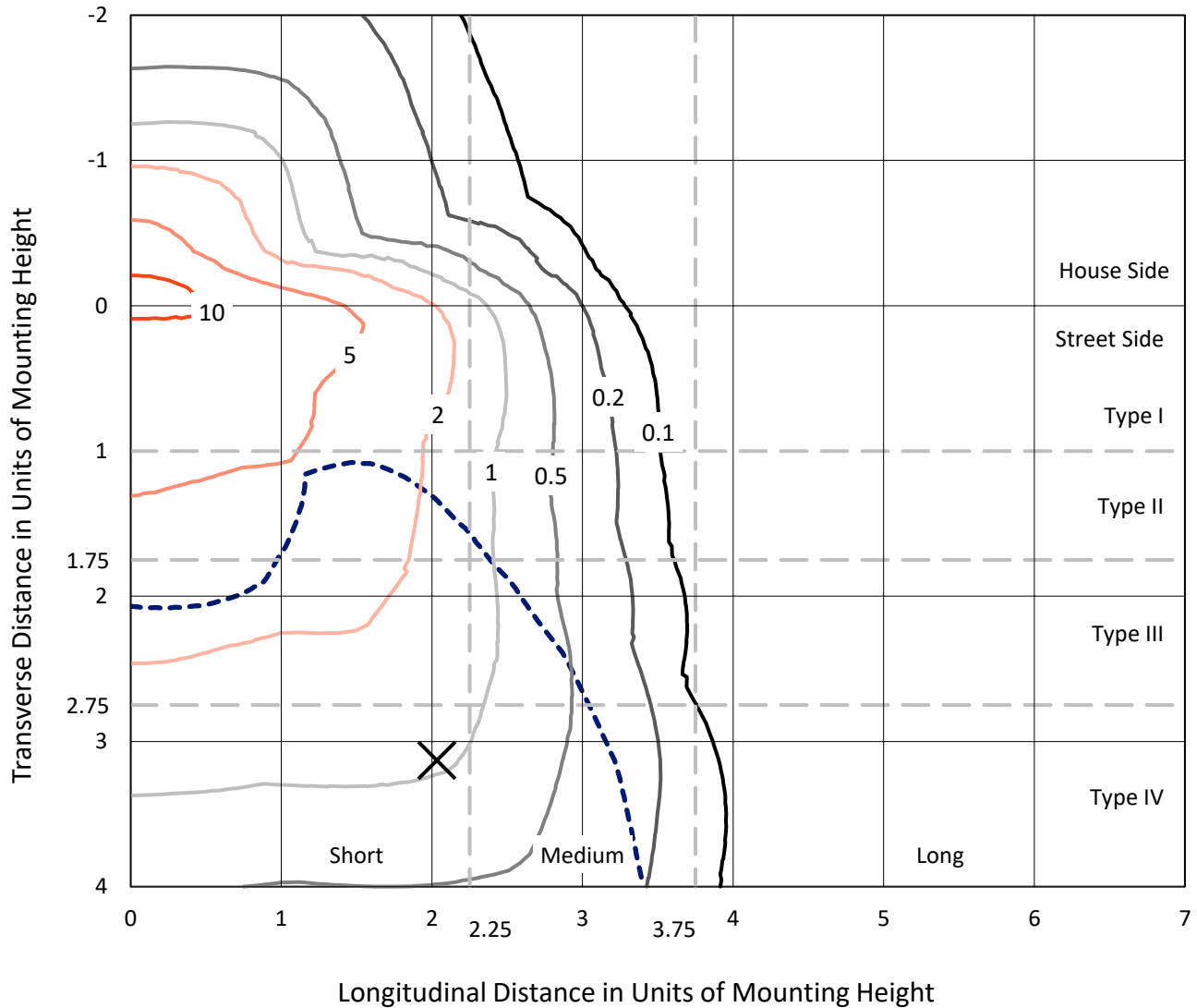
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318743
 CATALOG NUMBER: GAN-SA9D-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

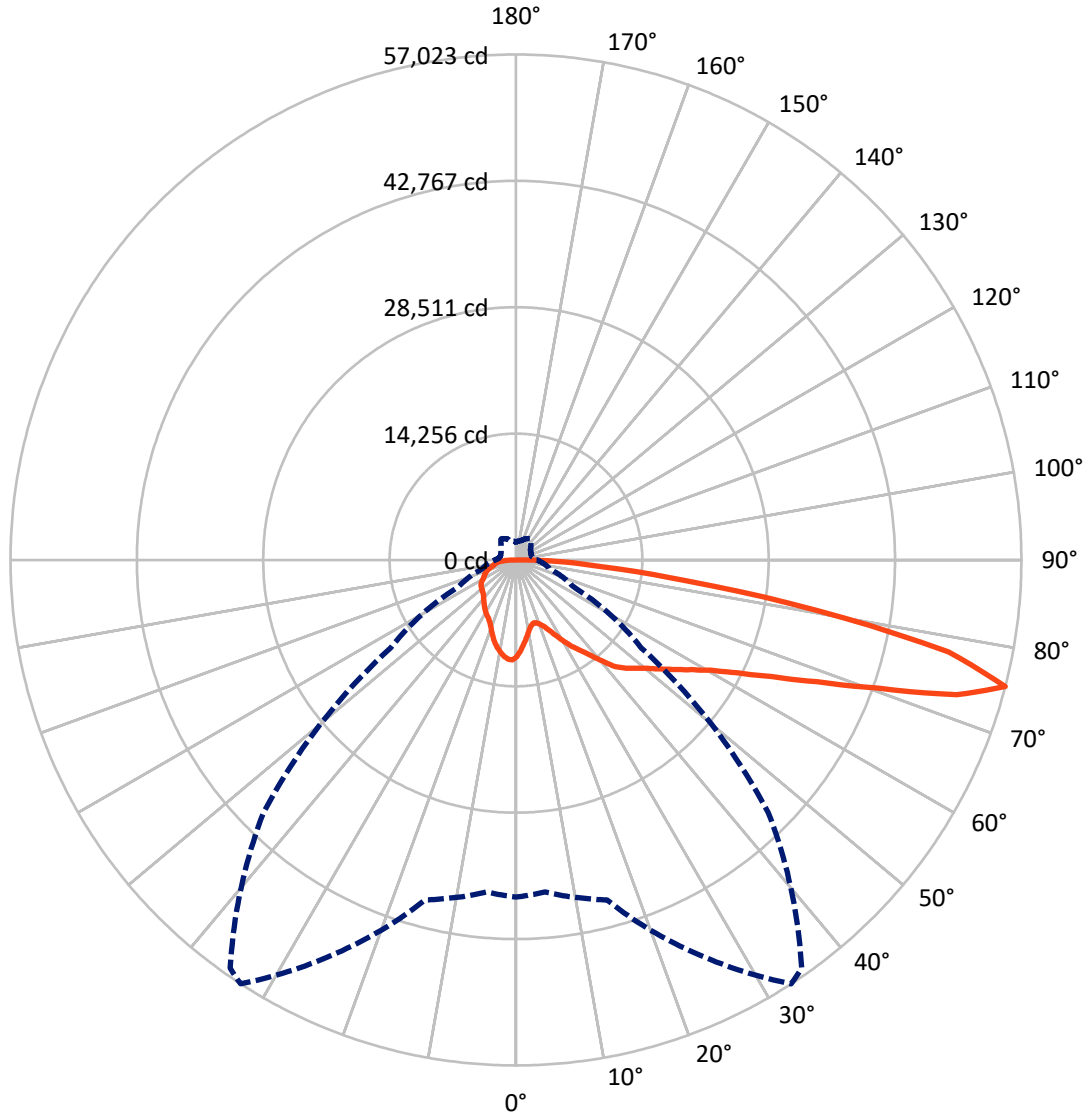
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P318743
CATALOG NUMBER: GAN-SA9D-740-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P318743
 CATALOG NUMBER: GAN-SA9D-740-U-T4FT

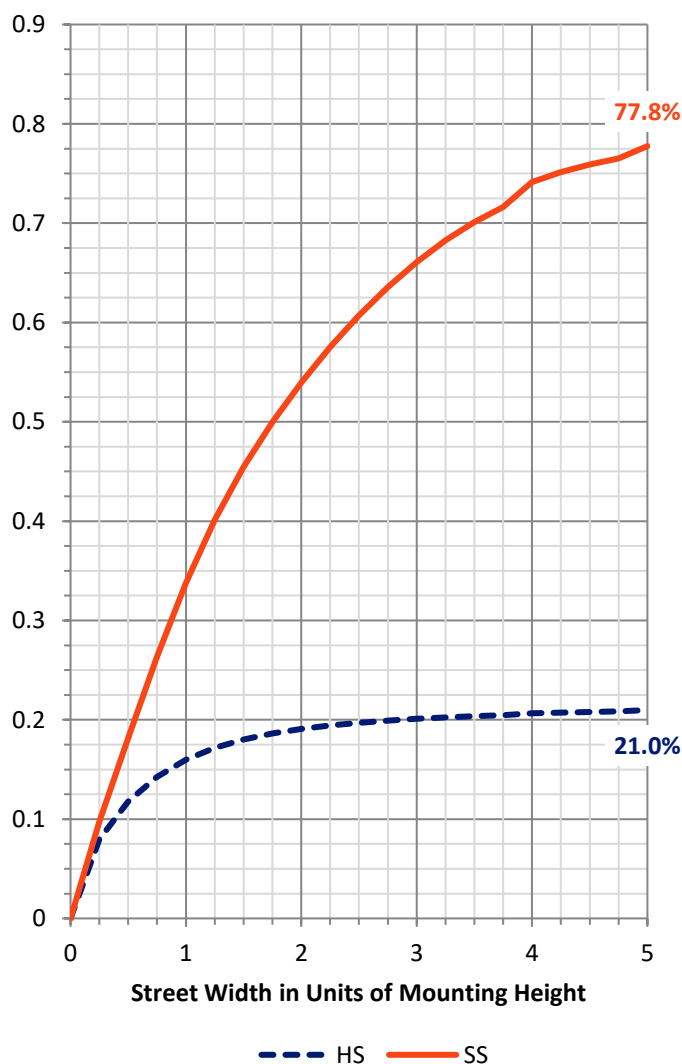
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14984.2	0.0	14984.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	54798.8	0.0	54798.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	69783.0	0.0	69783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.4	1.4
10°-20°	2671.7	3.8
20°-30°	4363.3	6.3
30°-40°	6498.0	9.3
40°-50°	9319.8	13.4
50°-60°	12794.7	18.3
60°-70°	16018.4	23.0
70°-80°	14491.1	20.8
80°-90°	2639.6	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°	69783.0	100.0
0°-180°	69783.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318743

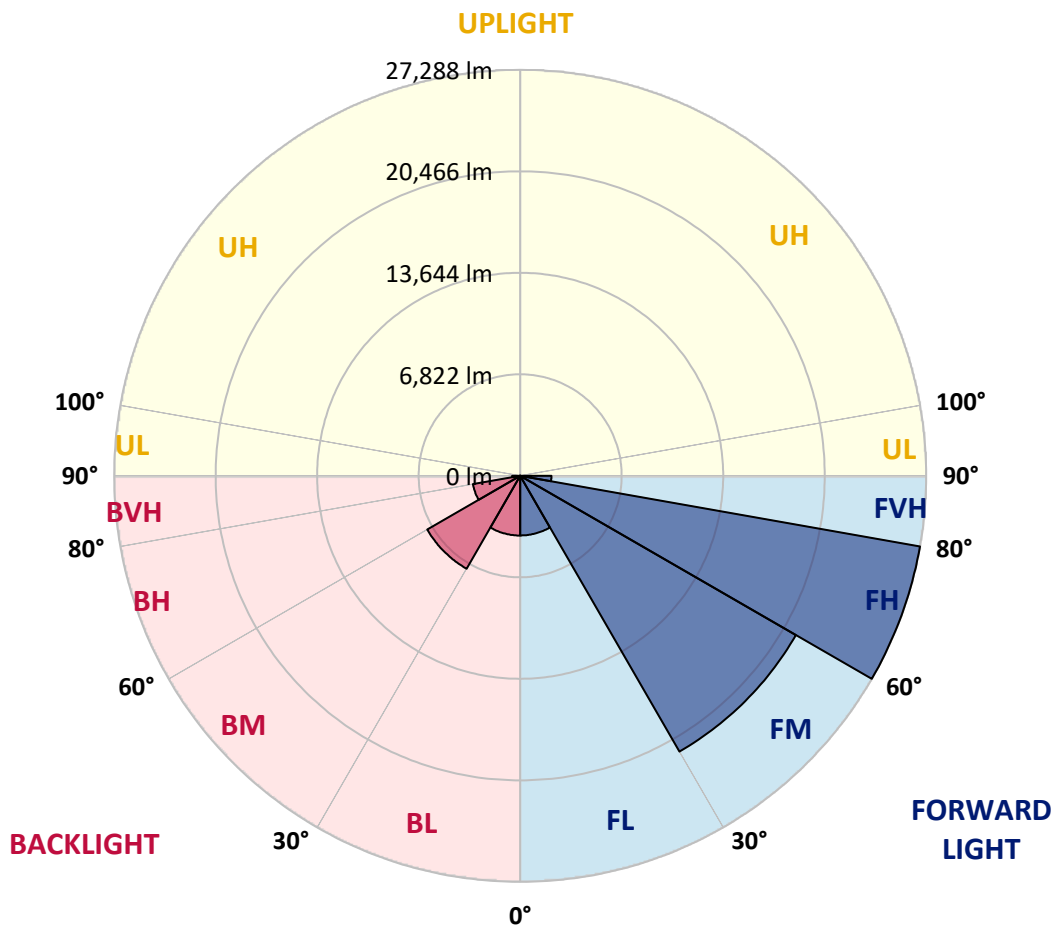
CATALOG NUMBER: GAN-SA9D-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4008.0	5.7			
FM (30°-60°)	21401.0	30.7			
FH (60°-80°)	27287.6	39.1			G5
FVH (80°-90°)	2102.2	3.0			G5
BL (0°-30°)	4013.5	5.8	B4/5000		
BM (30°-60°)	7211.5	10.3	B4/8500		
BH (60°-80°)	3221.9	4.6	B4/5000		G4/5000
BVH (80°-90°)	537.4	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





REPORT NUMBER: P318743

CATALOG NUMBER: GAN-SA9D-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5
2.5°	10128.9	10090.3	10162.6	10172.3	10234.9	10259.1	10345.8	10480.8	10591.7	10719.5	10835.2
5°	9210.5	9184.0	9285.2	9357.5	9494.9	9552.8	9757.7	10044.5	10300.0	10589.3	10852.0
7.5°	8337.9	8323.4	8436.7	8600.6	8759.7	8839.3	9193.6	9610.6	10037.3	10504.9	10907.5
10°	7602.7	7597.9	7706.3	7867.8	8101.7	8190.9	8648.8	9198.4	9796.2	10439.8	11001.5
12.5°	7190.5	7207.4	7258.0	7393.0	7609.9	7699.1	8207.7	8853.7	9593.8	10418.1	11138.9
15°	7291.7	7318.3	7231.5	7226.7	7380.9	7450.8	7928.1	8607.9	9449.1	10454.3	11339.0
17.5°	7723.2	7728.0	7499.0	7354.4	7448.4	7484.6	7841.3	8468.1	9364.8	10536.3	11589.6
20°	8330.7	8318.6	7913.6	7672.6	7723.2	7732.9	7964.3	8470.5	9357.5	10678.5	11915.1
22.5°	9135.8	9046.6	8501.8	8174.0	8161.9	8147.5	8280.0	8648.8	9463.6	10909.9	12303.1
25°	10186.7	10102.4	9352.7	8904.4	8807.9	8771.8	8791.1	9029.7	9673.3	11158.2	12737.0
27.5°	11355.8	11208.8	10485.6	9851.7	9651.6	9601.0	9485.3	9567.2	9902.3	11396.8	13252.9
30°	12334.5	12254.9	11623.4	10871.3	10635.1	10562.8	10259.1	10169.9	10232.5	11722.2	13903.7
32.5°	12881.7	12828.6	12445.4	11837.9	11618.6	11517.3	11088.3	10909.9	10762.8	12235.7	14786.0
35°	13544.6	13510.8	13279.4	12838.3	12512.9	12406.8	12074.2	11888.5	11510.1	12941.9	15926.1
37.5°	14388.2	14352.1	14356.9	14000.1	13612.0	13513.2	13293.9	13098.6	12479.1	13870.0	17165.1
40°	15342.8	15272.9	15246.4	15229.5	14983.6	14928.2	14812.5	14547.3	13694.0	14978.8	18387.2
42.5°	16779.4	16531.2	16000.8	16200.9	16444.4	16415.4	16509.5	16128.6	15043.9	16290.1	19580.4
45°	18165.5	17758.1	16842.1	16885.5	17418.2	17579.7	18283.6	18013.6	16507.0	17726.8	20814.6
47.5°	18797.0	18488.5	17709.9	17712.3	18240.2	18575.2	20118.0	19925.1	18044.9	19358.7	22321.2
50°	19503.3	19194.7	18495.7	18758.4	19218.8	19575.6	21889.7	21790.8	19508.1	21144.8	24126.6
52.5°	20274.6	19751.6	19308.0	19778.1	20424.1	20838.7	23663.8	23393.8	20850.8	22943.1	26202.0
55°	20284.3	20142.1	20479.5	20824.2	21790.8	22299.5	25522.3	24808.8	21945.1	24709.9	27891.8
57.5°	21438.9	21207.5	21923.4	22082.5	23345.6	23919.3	27371.1	26040.5	23058.8	26064.6	28803.0
60°	22967.2	22769.5	23355.3	23774.7	25269.2	26035.7	29345.3	27306.0	23933.8	27086.7	28759.6
62.5°	25606.7	25382.5	25375.2	25963.4	27976.2	28868.0	31560.6	28547.5	24280.9	27289.2	27532.6
65°	29470.7	29113.9	28441.4	28721.0	31714.8	32604.3	34036.1	29446.6	23822.9	26204.5	24372.5
67.5°	33231.0	33219.0	32392.2	32965.9	36651.5	37365.0	36856.4	29535.8	22393.5	22427.2	18765.7
70°	36979.4	37027.6	36887.8	38883.6	43321.4	44063.8	39859.9	28337.7	19180.3	16196.1	11242.5
72.5°	39949.1	39937.0	40640.9	45787.3	51977.4	51811.1	42390.9	24707.5	13771.1	8742.9	5373.0
75°	38025.5	37606.1	39703.2	49205.4	57022.6	56210.3	40238.3	17235.0	7147.1	3979.7	2892.6
77.5°	24801.5	25199.3	28277.5	40648.1	49877.9	48889.6	29521.3	8041.4	3367.5	2610.6	2097.1
80°	8981.5	9400.9	13240.8	23025.0	34364.0	34202.5	14537.7	3304.8	2277.9	1971.8	1528.3
82.5°	3090.3	3244.5	5223.5	10225.3	19402.0	20125.2	5469.4	1877.8	1656.0	1398.1	1046.2
85°	1212.5	1388.4	2388.8	4919.8	9786.6	9858.9	2215.2	1123.3	1152.2	916.0	573.7
87.5°	460.4	559.2	1142.6	2285.1	4469.1	4105.1	793.1	535.1	655.7	544.8	272.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318743

CATALOG NUMBER: GAN-SA9D-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5	10907.5
2.5°	10924.3	10975.0	11081.0	11153.3	11230.5	11252.2	11261.8	11281.1	11300.4	11293.2	11295.6
5°	10991.8	11090.7	11261.8	11334.1	11367.9	11329.3	11254.6	11194.3	11150.9	11126.8	11119.6
7.5°	11102.7	11242.5	11425.7	11413.7	11336.5	11165.4	10972.6	10827.9	10707.4	10664.0	10639.9
10°	11249.8	11413.7	11541.4	11404.0	11179.9	10883.4	10594.1	10369.9	10189.1	10119.2	10107.2
12.5°	11437.8	11604.1	11628.2	11336.5	10965.3	10560.4	10167.5	9871.0	9601.0	9514.2	9494.9
15°	11681.2	11837.9	11688.5	11218.4	10700.2	10155.4	9646.8	9244.2	8959.8	8853.7	8815.2
17.5°	11936.8	12086.2	11700.5	11023.2	10353.1	9675.7	9036.9	8624.7	8299.3	8176.4	8161.9
20°	12242.9	12310.4	11649.9	10743.6	9875.8	9053.8	8381.3	7993.2	7819.6	7732.9	7723.2
22.5°	12621.3	12549.0	11534.2	10365.1	9270.8	8335.5	7788.3	7607.5	7564.1	7544.8	7552.1
25°	13021.5	12799.7	11363.1	9871.0	8506.6	7617.2	7354.4	7405.0	7462.9	7455.7	7455.7
27.5°	13462.6	13055.2	11100.3	9215.3	7660.5	7029.0	7060.3	7245.9	7332.7	7330.3	7327.9
30°	14029.1	13344.5	10765.3	8427.1	6869.9	6614.4	6804.8	7031.4	7149.5	7144.7	7147.1
32.5°	14725.7	13662.7	10309.7	7547.2	6298.6	6308.3	6527.6	6751.8	6889.2	6877.1	6879.5
35°	15540.4	14019.4	9692.6	6679.5	5920.2	6064.8	6238.4	6395.0	6525.2	6508.3	6491.5
37.5°	16427.5	14368.9	8873.0	5903.3	5611.6	5838.2	5982.8	6009.4	6069.6	6026.2	5994.9
40°	17271.2	14636.5	7817.2	5266.9	5300.7	5645.4	5739.4	5633.3	5524.8	5510.4	5467.0
42.5°	18006.4	14725.7	6749.4	4758.3	4972.8	5442.9	5500.7	5279.0	5083.7	4992.1	4953.6
45°	18782.5	14757.0	5753.8	4331.7	4657.1	5262.1	5324.8	5028.3	4753.5	4555.8	4490.7
47.5°	19797.4	14983.6	4980.1	4015.9	4416.0	5141.6	5230.8	4828.2	4471.5	4189.4	4129.2
50°	21125.5	15432.0	4350.9	3774.8	4259.3	5062.0	5163.3	4633.0	4240.1	3900.2	3839.9
52.5°	22600.8	15844.2	3842.3	3579.6	4107.5	4922.2	5076.5	4493.2	4023.1	3632.6	3567.5
55°	23632.5	15528.4	3432.5	3377.1	3909.8	4722.2	4956.0	4375.0	3712.2	3372.3	3314.4
57.5°	23830.1	14448.5	3121.6	3167.4	3671.2	4471.5	4770.4	4112.3	3543.4	3259.0	3198.7
60°	23290.2	12944.3	2890.2	2974.5	3415.7	4155.7	4423.3	3926.7	3381.9	3138.5	3087.8
62.5°	21933.1	11404.0	2719.0	2801.0	3177.0	3835.1	4206.3	3731.4	3218.0	3001.1	2950.4
65°	19192.3	9574.5	2555.1	2646.7	2955.3	3557.9	4011.1	3550.7	3056.5	2890.2	2842.0
67.5°	14487.1	7171.2	2400.8	2482.8	2757.6	3316.8	3798.9	3372.3	2899.8	2793.8	2735.9
70°	8530.7	4490.7	2224.9	2311.7	2550.3	3066.1	3572.3	3177.0	2704.6	2656.4	2581.6
72.5°	3970.1	2702.2	2024.8	2109.2	2290.0	2731.1	3280.7	2921.5	2473.2	2367.1	2265.9
75°	2369.5	1976.6	1788.6	1863.3	1991.1	2374.3	2914.3	2661.2	2253.8	2114.0	2007.9
77.5°	1771.7	1511.4	1528.3	1607.8	1711.4	2077.8	2581.6	2456.3	2085.1	1976.6	1904.3
80°	1275.2	1147.4	1246.2	1333.0	1441.5	1889.8	2473.2	2270.7	1885.0	1740.4	1672.9
82.5°	850.9	824.4	937.7	1026.9	1132.9	1653.6	2323.7	1988.7	1610.2	1427.0	1277.6
85°	470.0	496.6	631.5	670.1	761.7	1164.3	1904.3	1598.2	1212.5	976.2	932.9
87.5°	195.2	229.0	339.9	327.8	405.0	694.2	1253.5	964.2	771.4	576.1	448.4
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)