

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: P318724

Luminaire Tested: **GAN-SA0B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318724
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-SA0B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA 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: 56904 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

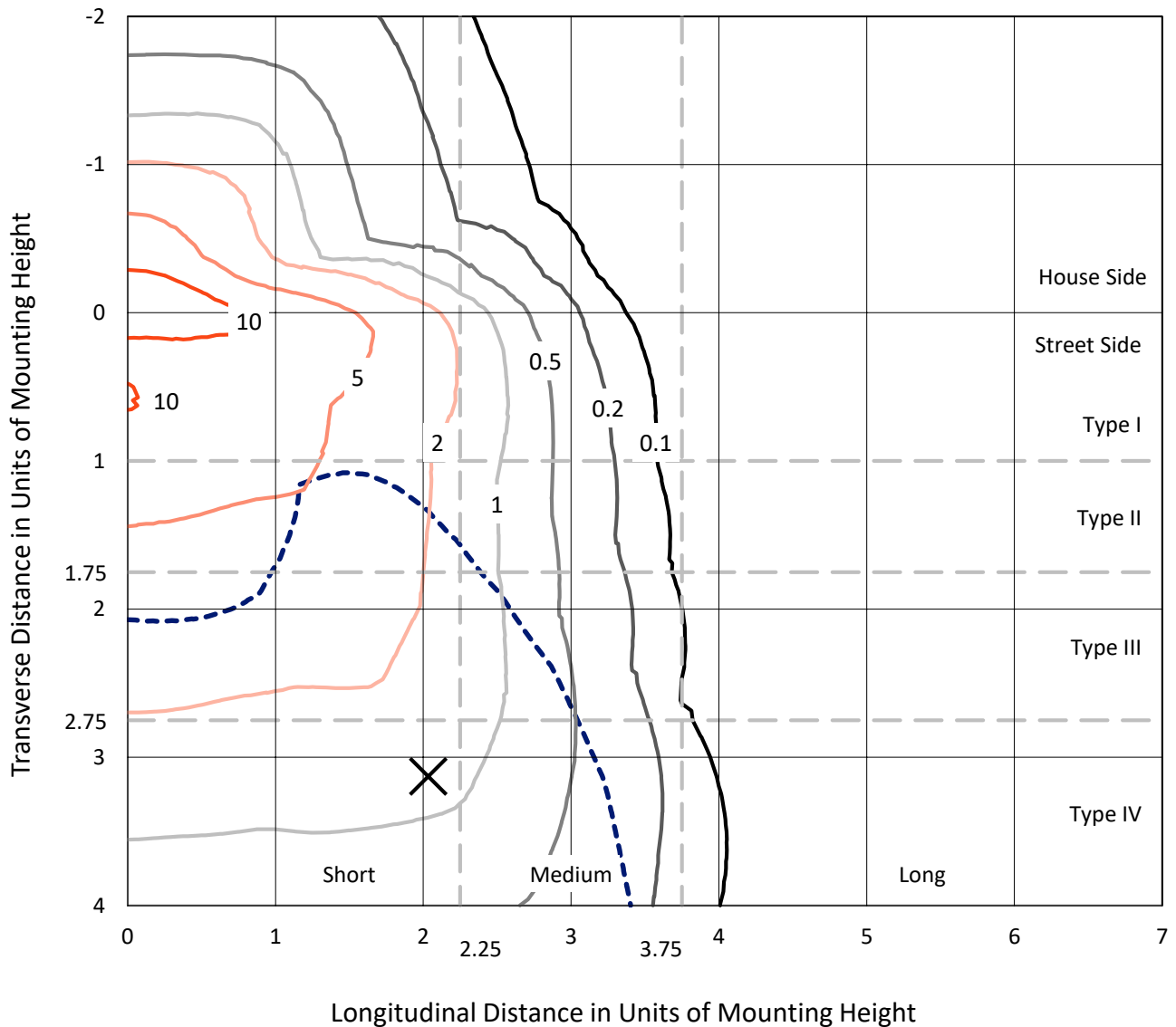
Input Watts (W): 419
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

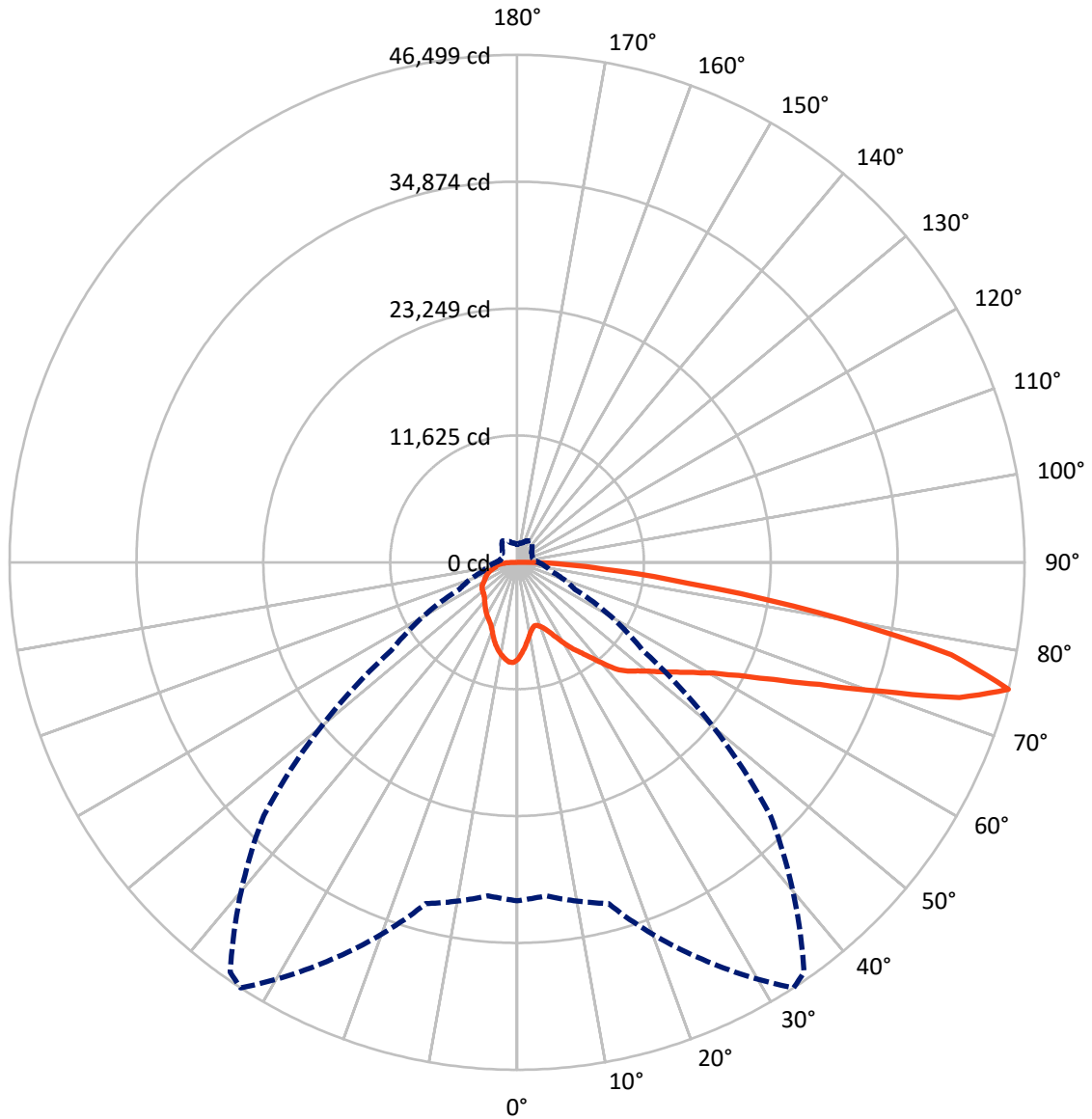
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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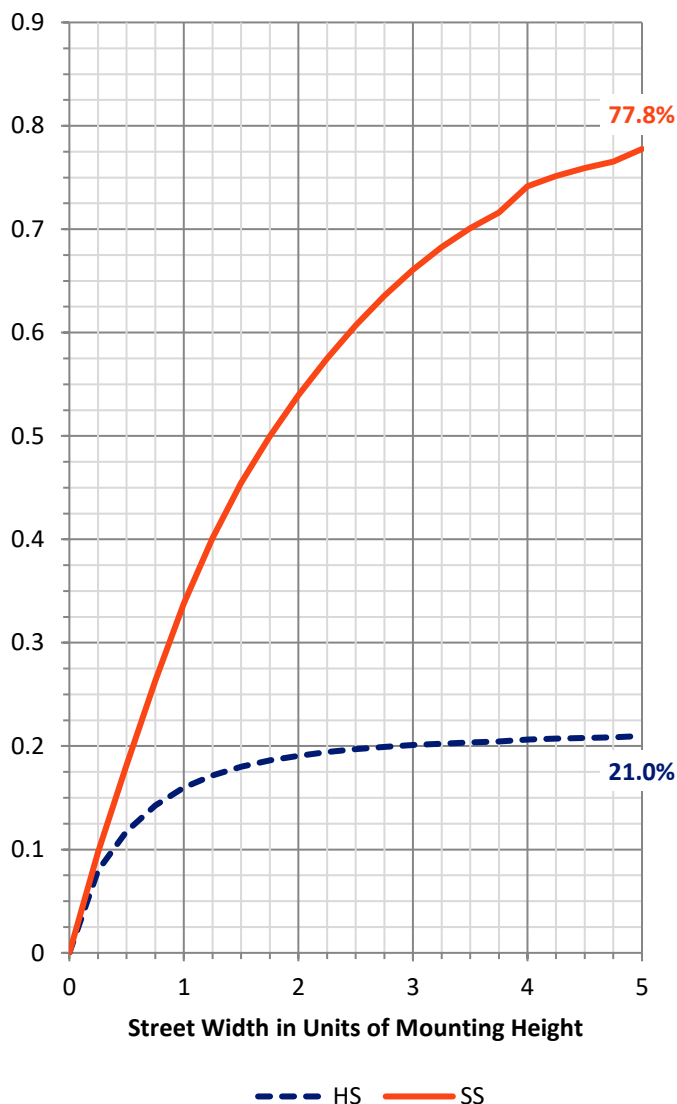
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12218.8	0.0	12218.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	44685.2	0.0	44685.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	56904.0	0.0	56904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.4	1.4
10°-20°	2178.6	3.8
20°-30°	3558.0	6.3
30°-40°	5298.7	9.3
40°-50°	7599.8	13.4
50°-60°	10433.3	18.3
60°-70°	13062.1	23.0
70°-80°	11816.6	20.8
80°-90°	2152.5	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°	56904.0	100.0
0°-180°	56904.0	100.0

Coefficient of Utilization



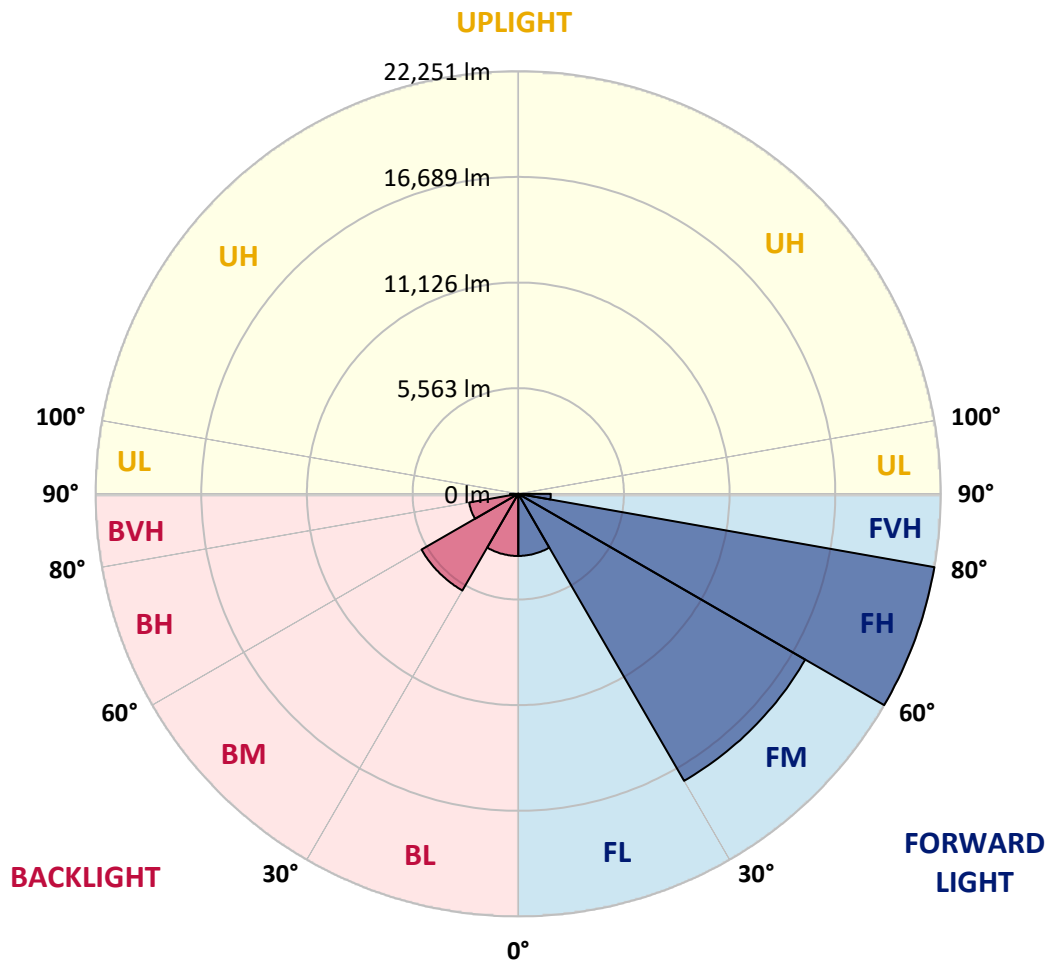
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3268.3	5.7			
FM (30°-60°)	17451.3	30.7			
FH (60°-80°)	22251.4	39.1			G5
FVH (80°-90°)	1714.2	3.0			G5
BL (0°-30°)	3272.8	5.8	B4/5000		
BM (30°-60°)	5880.5	10.3	B4/8500		
BH (60°-80°)	2627.3	4.6	B4/5000		G4/5000
BVH (80°-90°)	438.2	0.8			G3/500
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°	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4
2.5°	8259.5	8228.1	8287.0	8294.9	8346.0	8365.7	8436.4	8546.5	8636.9	8741.1	8835.4
5°	7510.6	7489.0	7571.6	7630.5	7742.6	7789.7	7956.8	8190.7	8399.1	8635.0	8849.2
7.5°	6799.1	6787.3	6879.7	7013.3	7143.1	7207.9	7496.9	7836.9	8184.8	8566.2	8894.4
10°	6199.6	6195.6	6284.1	6415.8	6606.4	6679.2	7052.6	7500.8	7988.3	8513.1	8971.1
12.5°	5863.4	5877.2	5918.5	6028.5	6205.5	6278.2	6692.9	7219.7	7823.2	8495.4	9083.1
15°	5946.0	5967.6	5896.8	5892.9	6018.7	6075.7	6464.9	7019.2	7705.2	8524.9	9246.3
17.5°	6297.8	6301.8	6115.0	5997.1	6073.8	6103.2	6394.2	6905.2	7636.4	8591.7	9450.7
20°	6793.2	6783.3	6453.1	6256.6	6297.8	6305.7	6494.4	6907.2	7630.5	8707.7	9716.0
22.5°	7449.7	7377.0	6932.7	6665.4	6655.6	6643.8	6751.9	7052.6	7717.0	8896.4	10032.5
25°	8306.7	8237.9	7626.6	7261.0	7182.4	7152.9	7168.6	7363.2	7888.0	9098.8	10386.3
27.5°	9260.0	9140.1	8550.4	8033.5	7870.3	7829.1	7734.7	7801.5	8074.8	9293.4	10807.0
30°	10058.1	9993.2	9478.2	8864.9	8672.3	8613.3	8365.7	8292.9	8344.0	9558.8	11337.7
32.5°	10504.3	10461.0	10148.5	9653.1	9474.3	9391.7	9041.8	8896.4	8776.5	9977.5	12057.1
35°	11044.8	11017.3	10828.6	10468.9	10203.5	10117.0	9845.8	9694.4	9385.8	10553.4	12986.8
37.5°	11732.8	11703.3	11707.2	11416.3	11099.8	11019.2	10840.4	10681.2	10176.0	11310.2	13997.2
40°	12511.1	12454.1	12432.5	12418.8	12218.3	12173.1	12078.7	11862.5	11166.7	12214.3	14993.7
42.5°	13682.7	13480.2	13047.8	13210.9	13409.4	13385.8	13462.5	13151.9	12267.4	13283.6	15966.7
45°	14812.9	14480.7	13733.8	13769.1	14203.5	14335.2	14909.2	14689.1	13460.5	14455.1	16973.1
47.5°	15327.9	15076.3	14441.4	14443.3	14873.8	15147.0	16405.0	16247.8	14714.6	15785.9	18201.6
50°	15903.8	15652.2	15082.2	15296.4	15671.9	15962.8	17849.8	17769.2	15907.7	17242.4	19673.9
52.5°	16532.8	16106.3	15744.6	16127.9	16654.7	16992.8	19296.5	19076.3	17002.6	18708.7	21366.3
55°	16540.7	16424.7	16699.9	16981.0	17769.2	18183.9	20811.9	20230.1	17895.0	20149.5	22744.1
57.5°	17482.2	17293.5	17877.3	18007.0	19037.0	19504.8	22319.6	21234.6	18803.1	21254.2	23487.2
60°	18728.4	18567.2	19044.9	19386.9	20605.6	21230.6	23929.4	22266.5	19516.6	22087.6	23451.8
62.5°	20880.7	20697.9	20692.0	21171.7	22812.9	23540.2	25735.8	23278.8	19799.7	22252.7	22451.3
65°	24031.6	23740.7	23192.3	23420.3	25861.6	26586.9	27754.5	24012.0	19426.2	21368.2	19874.3
67.5°	27098.0	27088.2	26414.0	26881.8	29887.2	30469.0	30054.3	24084.7	18260.6	18288.1	15302.3
70°	30154.5	30193.8	30079.8	31707.4	35326.1	35931.5	32503.4	23107.8	15640.4	13207.0	9167.6
72.5°	32576.2	32566.3	33140.3	37336.9	42384.6	42249.0	34567.3	20147.6	11229.6	7129.3	4381.4
75°	31007.6	30665.6	32375.7	40124.1	46498.6	45836.2	32812.0	14054.2	5828.1	3245.2	2358.7
77.5°	20224.2	20548.6	23058.6	33146.2	40672.5	39866.6	24072.9	6557.3	2746.0	2128.8	1710.1
80°	7323.9	7665.9	10797.1	18775.6	28021.8	27890.1	11854.6	2694.9	1857.5	1607.9	1246.2
82.5°	2519.9	2645.7	4259.5	8338.1	15821.2	16410.9	4460.0	1531.2	1350.4	1140.1	853.1
85°	988.7	1132.2	1947.9	4011.8	7980.4	8039.4	1806.4	916.0	939.6	746.9	467.8
87.5°	375.4	456.0	931.7	1863.4	3644.3	3347.4	646.7	436.4	534.6	444.2	222.1
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°	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4	8894.4
2.5°	8908.2	8949.5	9035.9	9094.9	9157.8	9175.5	9183.4	9199.1	9214.8	9208.9	9210.9
5°	8963.2	9043.8	9183.4	9242.3	9269.8	9238.4	9177.5	9128.3	9092.9	9073.3	9067.4
7.5°	9053.6	9167.6	9317.0	9307.2	9244.3	9104.7	8947.5	8829.5	8731.3	8695.9	8676.2
10°	9173.5	9307.2	9411.4	9299.3	9116.5	8874.8	8638.9	8456.1	8308.7	8251.7	8241.8
12.5°	9326.8	9462.5	9482.1	9244.3	8941.6	8611.4	8291.0	8049.2	7829.1	7758.3	7742.6
15°	9525.4	9653.1	9531.3	9148.0	8725.4	8281.1	7866.4	7538.1	7306.2	7219.7	7188.3
17.5°	9733.7	9855.6	9541.1	8988.8	8442.3	7890.0	7369.1	7033.0	6767.6	6667.4	6655.6
20°	9983.4	10038.4	9499.8	8760.8	8053.1	7382.9	6834.4	6518.0	6376.5	6305.7	6297.8
22.5°	10292.0	10233.0	9405.5	8452.2	7559.8	6797.1	6350.9	6203.5	6168.1	6152.4	6158.3
25°	10618.3	10437.4	9265.9	8049.2	6936.7	6211.3	5997.1	6038.4	6085.5	6079.7	6079.7
27.5°	10978.0	10645.8	9051.7	7514.6	6246.7	5731.7	5757.3	5908.6	5979.4	5977.4	5975.5
30°	11439.9	10881.7	8778.4	6871.8	5602.0	5393.7	5548.9	5733.7	5830.0	5826.1	5828.1
32.5°	12008.0	11141.1	8406.9	6154.3	5136.2	5144.0	5322.9	5505.7	5617.7	5607.9	5609.9
35°	12672.3	11432.0	7903.7	5446.7	4827.6	4945.5	5087.0	5214.8	5320.9	5307.2	5293.4
37.5°	13395.7	11717.0	7235.4	4813.8	4576.0	4760.7	4878.7	4900.3	4949.4	4914.0	4888.5
40°	14083.6	11935.2	6374.5	4294.9	4322.4	4603.5	4680.1	4593.6	4505.2	4493.4	4458.0
42.5°	14683.2	12008.0	5503.7	3880.1	4055.1	4438.4	4485.5	4304.7	4145.5	4070.8	4039.3
45°	15316.1	12033.5	4691.9	3532.2	3797.6	4290.9	4342.0	4100.3	3876.2	3715.0	3661.9
47.5°	16143.6	12218.3	4061.0	3274.7	3601.0	4192.7	4265.4	3937.1	3646.2	3416.2	3367.1
50°	17226.7	12583.9	3547.9	3078.2	3473.2	4127.8	4210.4	3777.9	3457.5	3180.4	3131.2
52.5°	18429.6	12920.0	3133.2	2918.9	3349.4	4013.8	4139.6	3663.9	3280.6	2962.2	2909.1
55°	19270.9	12662.5	2799.0	2753.8	3188.2	3850.6	4041.3	3567.6	3027.0	2749.9	2702.7
57.5°	19432.1	11781.9	2545.5	2582.8	2993.6	3646.2	3890.0	3353.3	2889.5	2657.5	2608.4
60°	18991.8	10555.4	2356.8	2425.6	2785.3	3388.7	3606.9	3202.0	2757.8	2559.2	2518.0
62.5°	17885.1	9299.3	2217.2	2284.0	2590.7	3127.3	3430.0	3042.8	2624.1	2447.2	2405.9
65°	15650.2	7807.4	2083.6	2158.2	2409.8	2901.2	3270.8	2895.4	2492.4	2356.8	2317.5
67.5°	11813.4	5847.7	1957.8	2024.6	2248.7	2704.7	3097.8	2749.9	2364.6	2278.1	2231.0
70°	6956.3	3661.9	1814.3	1885.0	2079.6	2500.3	2913.0	2590.7	2205.4	2166.1	2105.2
72.5°	3237.4	2203.5	1651.1	1719.9	1867.3	2227.0	2675.2	2382.3	2016.7	1930.2	1847.7
75°	1932.2	1611.8	1458.5	1519.4	1623.6	1936.1	2376.4	2170.0	1837.9	1723.8	1637.4
77.5°	1444.7	1232.4	1246.2	1311.1	1395.6	1694.4	2105.2	2003.0	1700.3	1611.8	1552.8
80°	1039.8	935.6	1016.2	1087.0	1175.4	1541.0	2016.7	1851.6	1537.1	1419.2	1364.1
82.5°	693.9	672.2	764.6	837.4	923.8	1348.4	1894.9	1621.6	1313.0	1163.6	1041.8
85°	383.3	404.9	515.0	546.4	621.1	949.4	1552.8	1303.2	988.7	796.1	760.7
87.5°	159.2	186.7	277.2	267.3	330.2	566.1	1022.1	786.2	629.0	469.8	365.6
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)