

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: P317803

Luminaire Tested: **GAN-SA9B-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52234 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

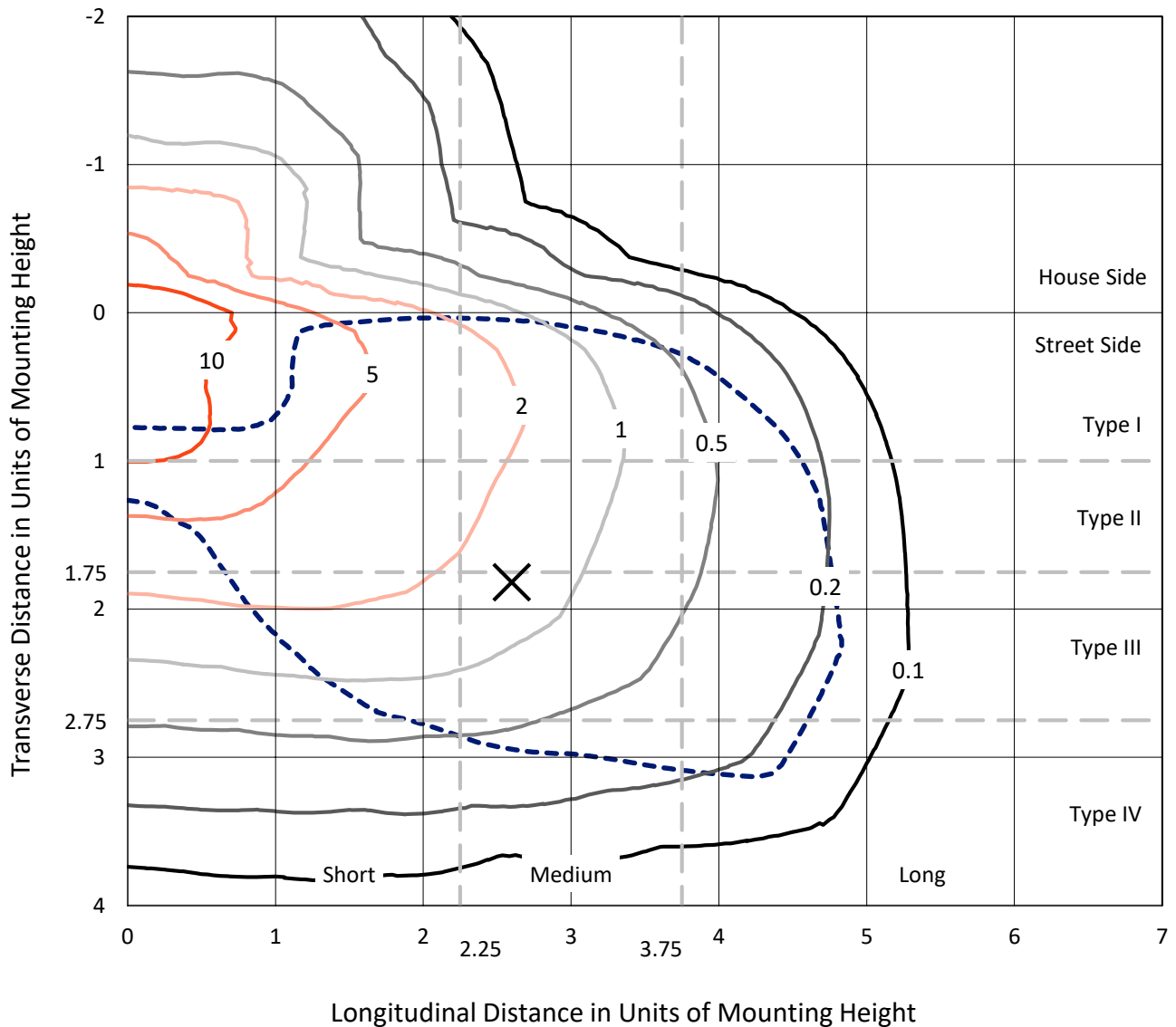
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

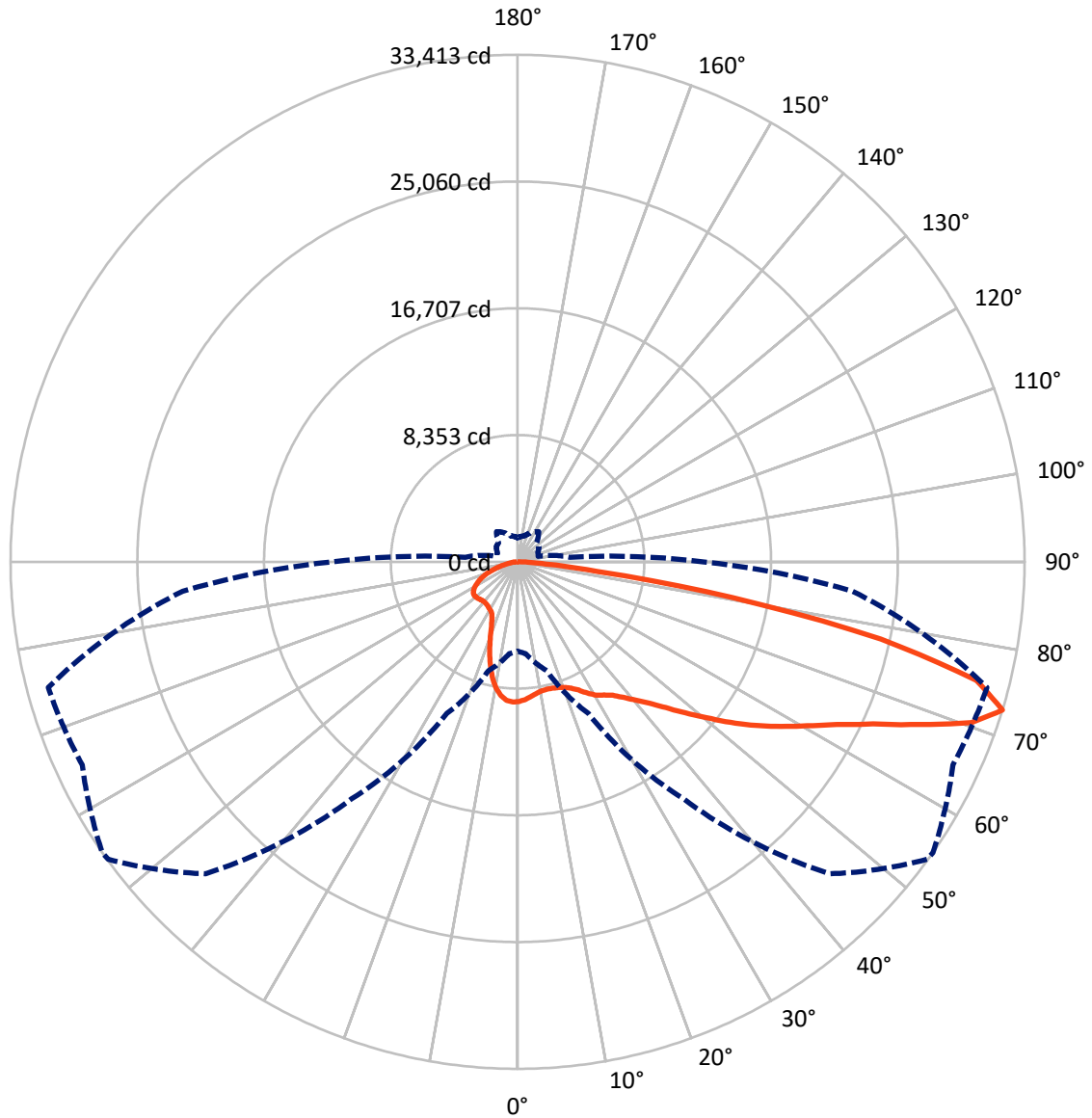
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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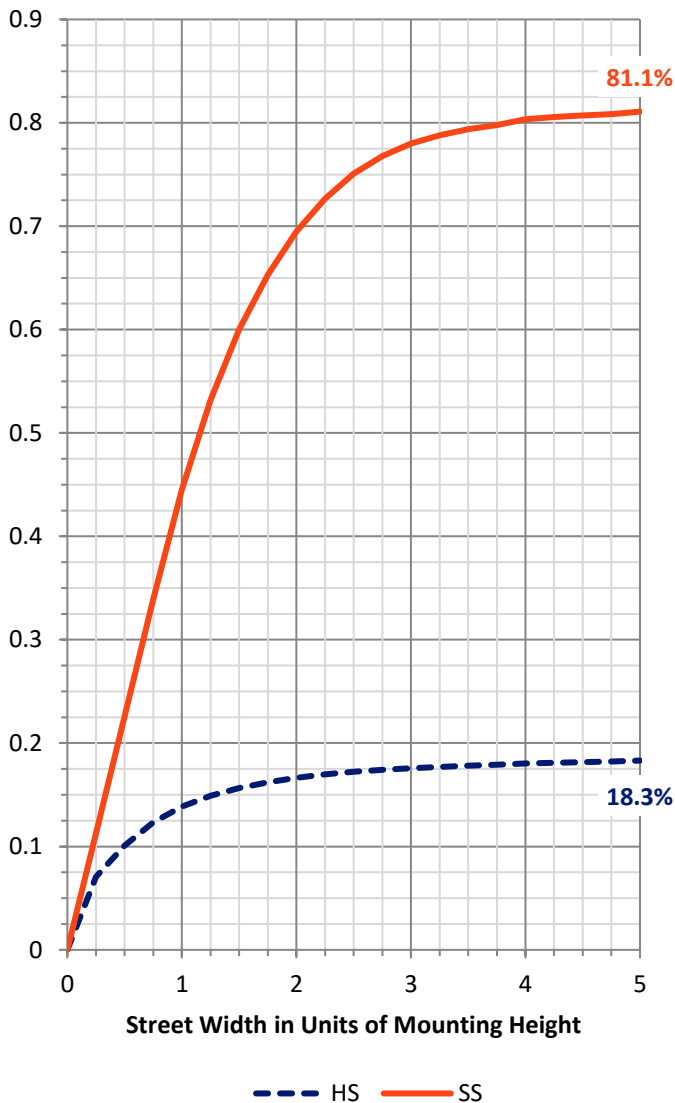
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9708.6	0.0	9708.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42525.4	0.0	42525.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	52234.0	0.0	52234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.7	1.6
10°-20°	2219.5	4.2
20°-30°	3659.4	7.0
30°-40°	5413.2	10.4
40°-50°	7555.7	14.5
50°-60°	9837.8	18.8
60°-70°	12090.4	23.1
70°-80°	9477.4	18.1
80°-90°	1146.9	2.2
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°	52234.0	100.0
0°-180°	52234.0	100.0

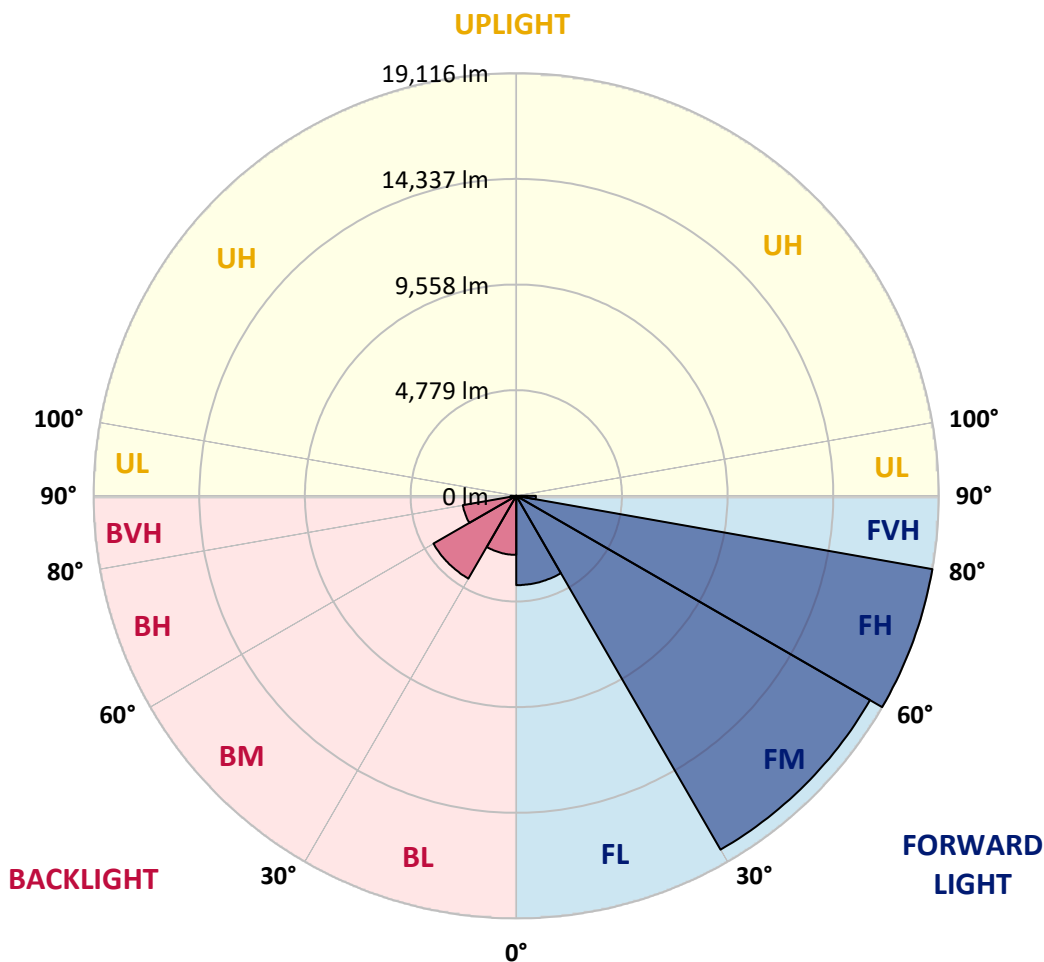


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.4	7.7			
FM (30°-60°)	18481.4	35.4			
FH (60°-80°)	19115.9	36.6			G5
FVH (80°-90°)	886.7	1.7			G5
BL (0°-30°)	2671.2	5.1	B4/5000		
BM (30°-60°)	4325.3	8.3	B3/5000		
BH (60°-80°)	2451.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.2	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0
2.5°	8913.0	8891.9	8918.3	8955.4	8996.0	9050.6	9082.4	9096.5	9151.2	9172.4	9218.2
5°	8500.2	8489.6	8533.7	8597.2	8687.2	8814.2	8916.6	8936.0	9080.6	9183.0	9276.5
7.5°	8200.3	8200.3	8251.4	8327.3	8427.9	8599.0	8743.7	8770.1	9015.4	9235.9	9408.8
10°	7962.1	7970.9	8030.9	8120.9	8239.1	8420.8	8613.1	8643.1	8997.7	9359.4	9634.6
12.5°	7803.3	7824.5	7879.2	7960.3	8106.8	8327.3	8570.8	8611.3	9034.8	9535.8	9906.3
15°	7903.9	7939.2	7944.5	7978.0	8059.1	8299.1	8595.5	8637.8	9114.2	9715.8	10215.1
17.5°	8344.9	8357.3	8302.6	8232.0	8193.2	8346.7	8669.6	8713.7	9209.4	9894.0	10511.4
20°	9015.4	9008.3	8890.1	8699.6	8502.0	8526.7	8791.3	8837.2	9338.2	10051.0	10807.8
22.5°	9862.2	9837.5	9655.8	9304.7	8967.7	8826.6	9004.8	9043.6	9532.3	10275.0	11125.4
25°	10889.0	10834.3	10594.4	10123.3	9627.6	9264.1	9325.9	9362.9	9814.6	10525.6	11416.5
27.5°	11972.3	11917.6	11612.3	11042.5	10382.7	9816.3	9768.7	9800.5	10135.7	10710.8	11631.8
30°	13104.9	13046.7	12767.9	12129.3	11183.6	10387.9	10181.5	10193.9	10361.5	10811.4	11808.2
32.5°	14242.9	14188.2	13875.9	13134.9	12053.4	11001.9	10479.7	10463.8	10497.3	10915.5	12007.5
35°	15396.7	15417.8	15052.6	14232.3	13016.7	11684.7	10832.5	10799.0	10724.9	11128.9	12289.8
37.5°	16631.7	16617.5	16144.7	15287.3	14024.1	12425.7	11338.9	11333.6	11077.8	11533.0	12732.6
40°	17457.3	17466.2	17178.6	16367.0	15042.1	13246.0	11988.1	11975.8	11640.6	12138.1	13313.1
42.5°	17780.2	17838.4	17912.5	17397.3	16107.7	14197.0	12762.6	12745.0	12425.7	13006.1	13995.9
45°	17803.1	17919.6	18378.3	18313.0	17187.4	15285.5	13752.4	13703.0	13473.6	14159.9	14810.9
47.5°	17605.5	17725.5	18487.7	18858.2	18152.4	16434.1	14909.7	14870.9	14673.3	15603.1	15693.1
50°	17173.3	17288.0	18261.8	19124.6	18946.4	17538.5	16243.5	16141.2	16035.3	17270.3	16702.2
52.5°	16363.5	16584.0	17960.1	19188.1	19420.9	18519.4	17646.1	17579.1	17637.3	19029.3	17713.1
55°	14445.7	14692.7	17182.1	19135.1	19772.0	19343.3	19048.7	19045.2	19346.8	20874.7	18798.2
57.5°	13371.3	13546.0	15597.8	19045.2	20188.4	20161.9	20437.2	20470.7	21058.2	22884.2	19934.3
60°	12764.4	12947.9	14795.1	18711.7	20834.1	21220.5	21853.9	21920.9	22797.7	25108.9	21301.6
62.5°	12212.2	12413.3	14297.5	18032.5	21594.5	22734.2	23551.1	23611.1	24639.6	27395.4	22623.1
65°	11268.3	11495.9	13568.9	17586.1	22286.1	24708.4	25708.8	25749.3	26755.0	29791.3	23634.0
67.5°	9934.5	10142.7	12194.5	16599.9	22797.7	27106.1	28577.4	28600.4	28852.7	31483.2	24150.9
70°	8376.7	8456.1	10236.2	14563.9	22192.6	29348.4	31721.4	31726.6	30765.1	32566.4	24066.2
72.5°	5885.6	6072.6	7431.1	11024.8	19071.6	29075.0	33353.3	33413.3	31654.3	32019.5	22143.2
75°	3609.7	3807.3	4661.2	6681.2	12099.3	22866.5	30816.3	31232.7	29987.1	28549.2	18088.9
77.5°	2413.5	2487.6	3041.6	3895.5	5481.5	13156.1	23692.2	24475.5	24911.3	20820.0	11568.2
80°	1346.1	1487.3	2016.5	2420.6	2438.2	5227.5	14205.8	14389.3	13860.0	8290.2	3569.1
82.5°	712.8	790.4	1346.1	1422.0	1330.3	1750.1	5294.5	5299.8	4428.3	2223.0	1060.3
85°	552.2	617.5	922.7	868.0	679.2	776.3	1746.6	1841.9	1506.7	910.4	345.8
87.5°	275.2	342.3	626.3	550.4	266.4	222.3	624.5	666.9	594.6	356.4	125.3
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°	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0	9213.0
2.5°	9235.9	9251.8	9271.2	9250.0	9242.9	9214.7	9167.1	9156.5	9131.8	9133.6	9147.7
5°	9317.0	9343.5	9332.9	9251.8	9154.7	9018.9	8877.7	8757.8	8678.4	8673.1	8667.8
7.5°	9472.3	9489.9	9407.0	9175.9	8904.2	8590.2	8293.8	8034.4	7877.4	7838.6	7829.8
10°	9715.8	9712.2	9484.6	9018.9	8477.3	7916.2	7439.9	7080.0	6870.0	6808.3	6792.4
12.5°	9987.5	9946.9	9511.1	8733.1	7873.9	7095.8	6492.5	6092.0	5873.2	5802.6	5785.0
15°	10268.0	10167.4	9445.8	8306.1	7132.9	6212.0	5578.6	5208.1	5089.9	5051.1	5044.0
17.5°	10529.1	10335.0	9258.8	7727.4	6287.8	5331.6	4837.6	4689.4	4717.6	4768.8	4770.6
20°	10784.9	10447.9	8958.9	6997.0	5396.9	4606.5	4438.9	4548.3	4682.3	4786.4	4800.5
22.5°	11037.2	10527.3	8572.5	6153.7	4599.4	4198.9	4317.1	4516.5	4670.0	4782.9	4802.3
25°	11248.9	10546.7	8039.7	5254.0	4045.4	4045.4	4258.9	4447.7	4599.4	4710.6	4730.0
27.5°	11326.5	10416.2	7288.1	4421.2	3766.7	3974.9	4177.8	4334.8	4463.6	4581.8	4602.9
30°	11356.5	10174.5	6420.1	3752.6	3652.0	3899.0	4068.4	4202.5	4324.2	4435.3	4454.8
32.5°	11361.8	9883.4	5499.2	3373.3	3572.6	3819.6	3932.5	4050.7	4181.3	4225.4	4232.5
35°	11395.3	9539.3	4528.8	3179.2	3498.5	3745.5	3835.5	3920.2	3708.5	3724.3	3738.5
37.5°	11492.4	9198.8	3717.3	3069.8	3450.9	3706.7	3814.3	3507.3	3341.5	3302.7	3297.4
40°	11674.1	8835.4	3115.7	2981.6	3433.2	3726.1	3678.5	3274.5	2988.7	2775.2	2743.4
42.5°	11926.4	8443.7	2731.1	2923.4	3445.6	3819.6	3489.7	3050.4	2575.8	2438.2	2420.6
45°	12210.4	8032.7	2522.9	2882.8	3487.9	3892.0	3450.9	2752.2	2383.5	2279.4	2270.6
47.5°	12485.7	7529.9	2415.3	2865.2	3546.2	3833.7	3286.8	2660.5	2291.8	2237.1	2242.4
50°	12801.5	7076.4	2350.0	2845.7	3597.3	3796.7	3101.6	2612.9	2256.5	2323.5	2394.1
52.5°	13067.9	6607.1	2291.8	2806.9	3616.7	3731.4	3053.9	2621.7	2256.5	2385.3	2452.3
55°	13383.7	6252.5	2224.7	2725.8	3579.7	3546.2	3020.4	2674.6	2282.9	2201.8	2208.9
57.5°	13791.2	6136.1	2150.6	2598.8	3456.2	3276.2	3004.5	2725.8	2267.1	2215.9	2233.6
60°	14355.8	6259.6	2120.6	2432.9	3263.9	3064.5	3006.3	2699.3	2155.9	2067.7	2069.5
62.5°	14893.9	6397.2	2118.9	2328.8	3027.5	2875.7	2965.7	2612.9	2099.5	2048.3	2067.7
65°	15070.3	6257.8	2034.2	2212.4	2761.1	2649.9	2891.6	2521.1	2057.1	1979.5	1976.0
67.5°	14833.9	5825.6	1863.1	2023.6	2455.8	2387.0	2794.6	2411.7	1990.1	1926.6	1916.0
70°	14131.7	4860.5	1651.3	1774.8	2108.3	2090.6	2641.1	2284.7	1900.1	1845.4	1799.5
72.5°	12242.2	3463.2	1392.0	1476.7	1716.6	1773.1	2429.4	2118.9	1773.1	1654.9	1584.3
75°	10054.5	2563.5	1143.2	1160.9	1303.8	1457.3	2138.3	1924.8	1623.1	1422.0	1367.3
77.5°	6157.3	1568.4	910.4	917.4	935.1	1162.6	1760.7	1707.8	1432.6	1185.6	1146.8
80°	1993.6	855.7	658.1	691.6	638.7	852.1	1362.0	1453.7	1229.7	991.5	949.2
82.5°	758.6	499.3	444.6	467.5	442.8	571.6	993.3	1164.4	1007.4	815.1	663.4
85°	367.0	282.3	262.9	294.6	273.5	292.9	635.1	857.4	763.9	531.0	494.0
87.5°	130.6	125.3	100.6	135.8	116.4	104.1	194.1	432.2	504.6	365.2	326.4
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)