

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: P318694

Luminaire Tested: **GAN-SA0C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318694
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-SA0C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 64140 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

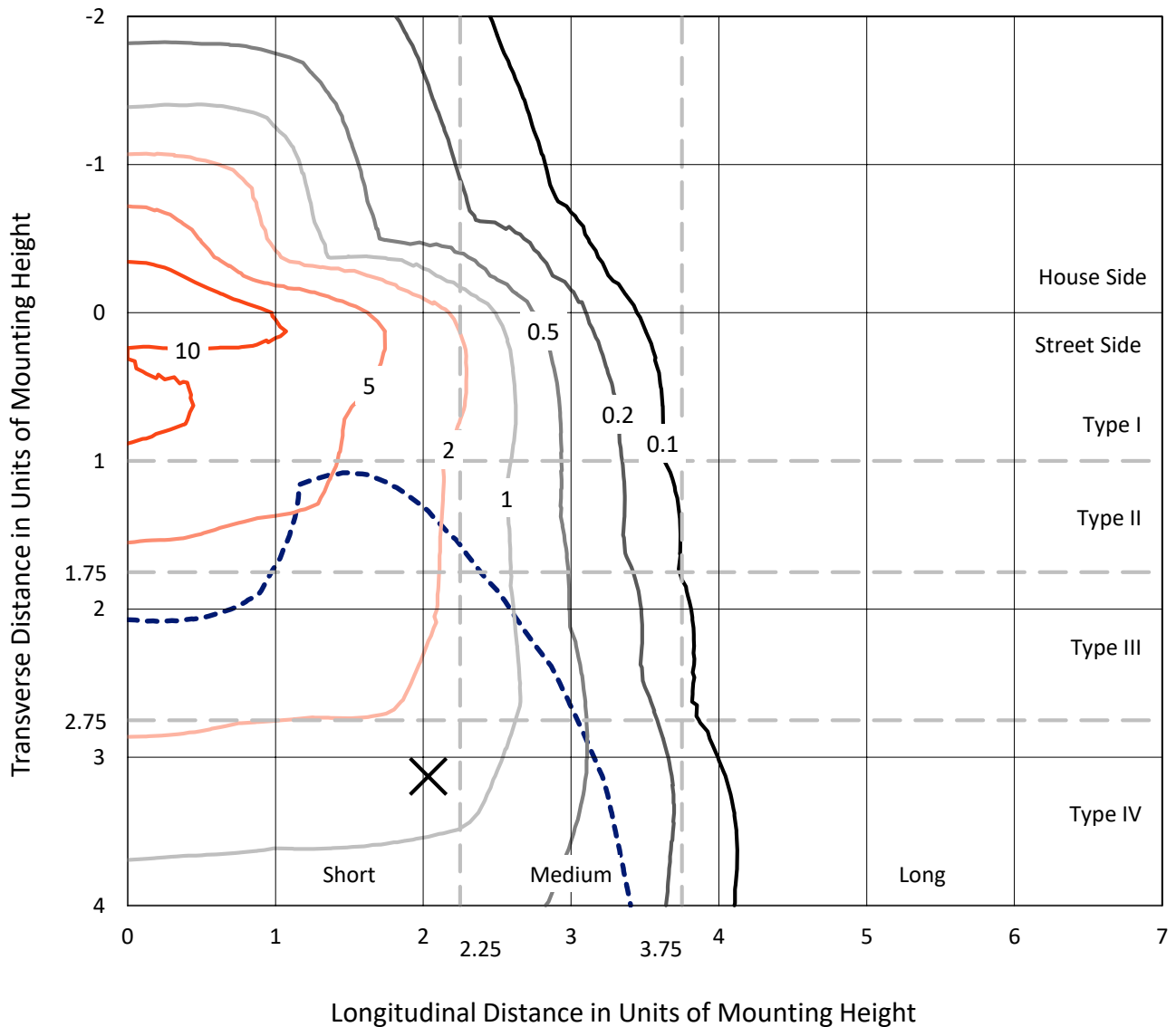
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

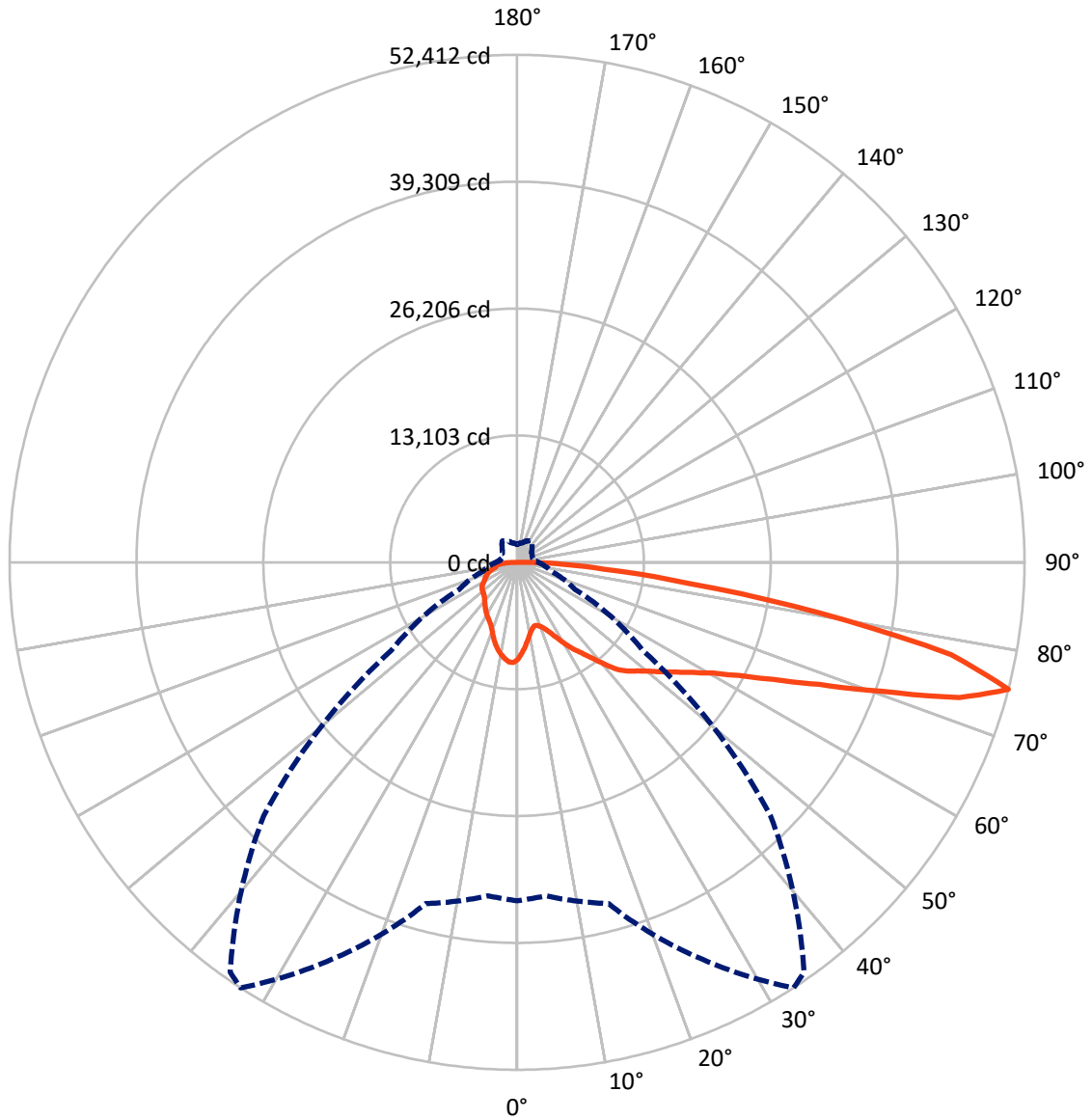
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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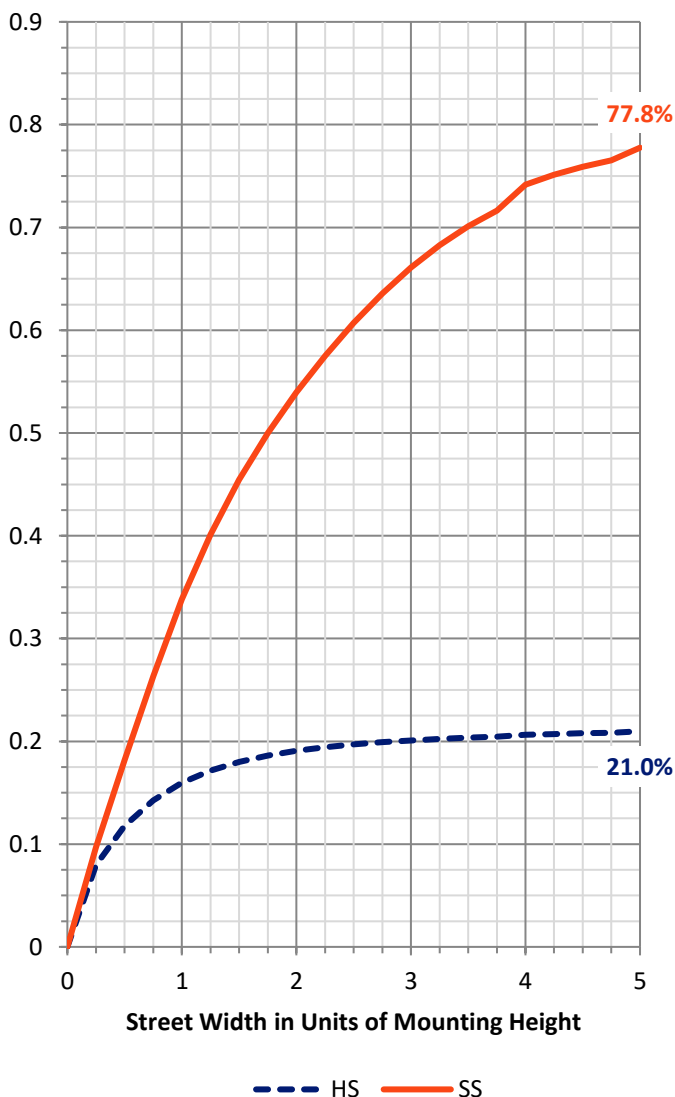
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13772.5	0.0	13772.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	50367.5	0.0	50367.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	64140.0	0.0	64140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.7	1.4
10°-20°	2455.7	3.8
20°-30°	4010.5	6.3
30°-40°	5972.5	9.3
40°-50°	8566.2	13.4
50°-60°	11760.1	18.3
60°-70°	14723.1	23.0
70°-80°	13319.3	20.8
80°-90°	2426.2	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°	64140.0	100.0
0°-180°	64140.0	100.0

Coefficient of Utilization



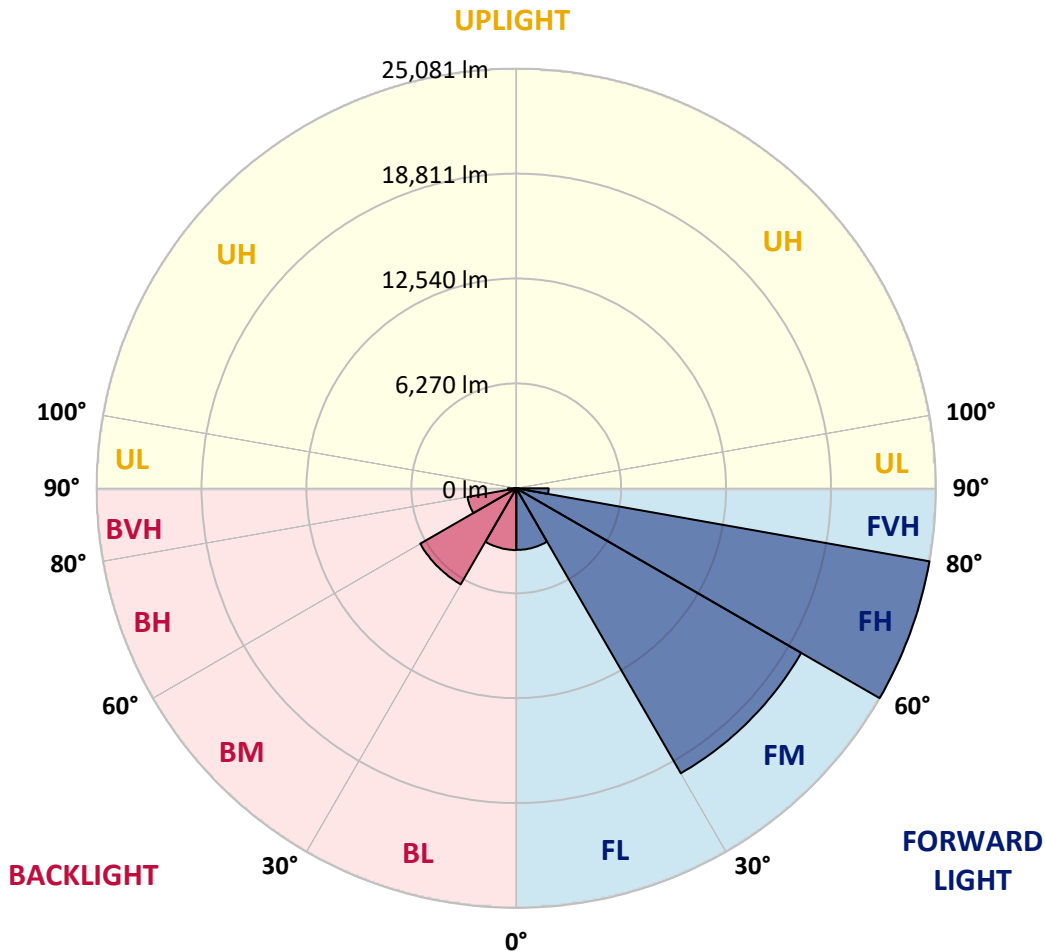
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3683.9	5.7			
FM (30°-60°)	19670.4	30.7			
FH (60°-80°)	25081.0	39.1			G5
FVH (80°-90°)	1932.2	3.0			G5
BL (0°-30°)	3688.9	5.8	B4/5000		
BM (30°-60°)	6628.3	10.3	B4/8500		
BH (60°-80°)	2961.4	4.6	B4/5000		G4/5000
BVH (80°-90°)	493.9	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°	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4
2.5°	9309.8	9274.4	9340.8	9349.7	9407.3	9429.5	9509.2	9633.3	9735.2	9852.6	9959.0
5°	8465.7	8441.3	8534.4	8600.8	8727.1	8780.3	8968.6	9232.3	9467.1	9733.0	9974.5
7.5°	7663.6	7650.4	7754.5	7905.1	8051.4	8124.5	8450.2	8833.5	9225.6	9655.4	10025.4
10°	6987.9	6983.5	7083.2	7231.6	7446.5	7528.5	7949.5	8454.6	9004.1	9595.6	10111.8
12.5°	6609.0	6624.5	6671.1	6795.1	6994.5	7076.5	7544.0	8137.8	8818.0	9575.7	10238.1
15°	6702.1	6726.5	6646.7	6642.3	6784.1	6848.3	7287.0	7911.8	8685.0	9608.9	10422.0
17.5°	7098.7	7103.1	6892.6	6759.7	6846.1	6879.3	7207.2	7783.3	8607.5	9684.2	10652.4
20°	7657.0	7645.9	7273.7	7052.2	7098.7	7107.5	7320.2	7785.5	8600.8	9815.0	10951.5
22.5°	8397.0	8315.0	7814.3	7513.0	7501.9	7488.6	7610.5	7949.5	8698.3	10027.7	11308.3
25°	9363.0	9285.4	8596.4	8184.3	8095.7	8062.4	8080.2	8299.5	8891.1	10255.9	11707.1
27.5°	10437.5	10302.4	9637.7	9055.0	8871.1	8824.6	8718.3	8793.6	9101.6	10475.2	12181.2
30°	11337.1	11263.9	10683.5	9992.2	9775.1	9708.6	9429.5	9347.5	9405.1	10774.3	12779.4
32.5°	11840.0	11791.2	11439.0	10880.7	10679.0	10586.0	10191.6	10027.7	9892.5	11246.2	13590.3
35°	12449.3	12418.3	12205.6	11800.1	11501.0	11403.5	11097.8	10927.2	10579.3	11895.4	14638.3
37.5°	13224.7	13191.5	13195.9	12868.0	12511.3	12420.5	12218.9	12039.4	11470.0	12748.4	15777.1
40°	14102.1	14037.8	14013.5	13998.0	13772.0	13721.0	13614.7	13370.9	12586.6	13767.5	16900.3
42.5°	15422.6	15194.4	14706.9	14890.8	15114.6	15088.0	15174.4	14824.4	13827.4	14972.8	17997.1
45°	16696.5	16322.1	15480.2	15520.0	16009.7	16158.1	16805.1	16556.9	15172.2	16293.3	19131.4
47.5°	17277.0	16993.4	16277.8	16280.0	16765.2	17073.2	18491.1	18313.9	16585.7	17793.2	20516.2
50°	17926.2	17642.6	17000.0	17241.5	17664.7	17992.6	20119.6	20028.7	17930.6	19435.0	22175.6
52.5°	18635.1	18154.4	17746.7	18178.7	18772.5	19153.6	21750.2	21502.1	19164.7	21087.8	24083.2
55°	18644.0	18513.3	18823.5	19140.3	20028.7	20496.2	23458.4	22802.6	20170.5	22711.8	25636.3
57.5°	19705.3	19492.6	20150.6	20296.8	21457.8	21985.1	25157.8	23934.8	21194.1	23956.9	26473.8
60°	21109.9	20928.2	21466.6	21852.1	23225.8	23930.3	26972.3	25097.9	21998.4	24896.3	26433.9
62.5°	23536.0	23329.9	23323.3	23863.9	25713.9	26533.6	29008.4	26239.0	22317.4	25082.4	25306.2
65°	27087.5	26759.6	26141.5	26398.5	29150.2	29967.8	31283.8	27065.4	21896.5	24085.4	22401.6
67.5°	30543.8	30532.7	29772.8	30300.1	33687.7	34343.5	33876.0	27147.3	20582.6	20613.6	17248.2
70°	33989.0	34033.3	33904.8	35739.3	39818.2	40500.6	36636.6	26046.2	17629.3	14886.4	10333.4
72.5°	36718.6	36707.5	37354.5	42084.7	47774.3	47621.4	38963.0	22709.6	12657.5	8035.9	4938.5
75°	34950.6	34565.1	36492.6	45226.4	52411.5	51664.8	36984.5	15841.3	6569.2	3657.9	2658.7
77.5°	22796.0	23161.5	25990.8	37361.1	45844.5	44936.1	27134.1	7391.1	3095.1	2399.5	1927.5
80°	8255.2	8640.7	12170.1	21163.1	31585.1	31436.7	13362.1	3037.5	2093.7	1812.3	1404.7
82.5°	2840.4	2982.2	4801.1	9398.4	17833.1	18497.8	5027.1	1725.9	1522.1	1285.0	961.6
85°	1114.4	1276.2	2195.6	4522.0	8995.2	9061.7	2036.1	1032.5	1059.0	841.9	527.3
87.5°	423.2	514.0	1050.2	2100.4	4107.7	3773.1	728.9	491.9	602.6	500.7	250.4
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°	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4	10025.4
2.5°	10041.0	10087.5	10185.0	10251.4	10322.3	10342.3	10351.1	10368.9	10386.6	10379.9	10382.1
5°	10103.0	10193.8	10351.1	10417.6	10448.6	10413.2	10344.5	10289.1	10249.2	10227.1	10220.4
7.5°	10204.9	10333.4	10501.8	10490.7	10419.8	10262.5	10085.3	9952.3	9841.5	9801.7	9779.5
10°	10340.1	10490.7	10608.1	10481.8	10275.8	10003.3	9737.4	9531.4	9365.2	9301.0	9289.9
12.5°	10512.9	10665.7	10687.9	10419.8	10078.6	9706.4	9345.3	9072.7	8824.6	8744.8	8727.1
15°	10736.6	10880.7	10743.3	10311.2	9834.9	9334.2	8866.7	8496.7	8235.3	8137.8	8102.3
17.5°	10971.5	11108.9	10754.4	10131.8	9515.9	8893.3	8306.2	7927.3	7628.2	7515.2	7501.9
20°	11252.9	11314.9	10707.8	9874.8	9077.2	8321.7	7703.5	7346.8	7187.3	7107.5	7098.7
22.5°	11600.7	11534.2	10601.5	9526.9	8521.1	7661.4	7158.5	6992.3	6952.4	6934.7	6941.4
25°	11968.5	11764.7	10444.2	9072.7	7818.7	7001.2	6759.7	6806.2	6859.4	6852.7	6852.7
27.5°	12373.9	11999.5	10202.7	8470.1	7041.1	6460.6	6489.4	6660.0	6739.8	6737.5	6735.3
30°	12894.6	12265.4	9894.7	7745.6	6314.4	6079.5	6254.5	6462.8	6571.4	6566.9	6569.2
32.5°	13534.9	12557.8	9476.0	6936.9	5789.3	5798.1	5999.8	6205.8	6332.1	6321.0	6323.2
35°	14283.8	12885.7	8908.8	6139.3	5441.4	5574.4	5733.9	5877.9	5997.5	5982.0	5966.5
37.5°	15099.1	13207.0	8155.5	5425.9	5157.8	5366.1	5499.0	5523.4	5578.8	5538.9	5510.1
40°	15874.5	13452.9	7185.1	4841.0	4872.0	5188.9	5275.3	5177.8	5078.1	5064.8	5024.9
42.5°	16550.3	13534.9	6203.6	4373.5	4570.7	5002.8	5055.9	4852.1	4672.6	4588.4	4553.0
45°	17263.7	13563.7	5288.6	3981.4	4280.5	4836.6	4894.2	4621.7	4369.1	4187.4	4127.6
47.5°	18196.5	13772.0	4577.4	3691.1	4058.9	4725.8	4807.8	4437.8	4109.9	3850.7	3795.3
50°	19417.2	14184.1	3999.1	3469.6	3914.9	4652.7	4745.7	4258.3	3897.2	3584.8	3529.4
52.5°	20773.2	14562.9	3531.6	3290.1	3775.3	4524.2	4666.0	4129.8	3697.8	3338.9	3279.0
55°	21721.4	14272.7	3155.0	3104.0	3593.7	4340.3	4555.2	4021.3	3412.0	3099.6	3046.4
57.5°	21903.1	13280.1	2869.2	2911.3	3374.3	4109.9	4384.6	3779.8	3256.9	2995.4	2940.1
60°	21406.8	11897.6	2656.5	2734.0	3139.5	3819.6	4065.6	3609.2	3108.4	2884.7	2838.1
62.5°	20159.4	10481.8	2499.2	2574.5	2920.1	3525.0	3866.2	3429.7	2957.8	2758.4	2711.9
65°	17640.3	8800.2	2348.5	2432.7	2716.3	3270.2	3686.7	3263.5	2809.3	2656.5	2612.2
67.5°	13315.6	6591.3	2206.7	2282.0	2534.6	3048.6	3491.7	3099.6	2665.3	2567.8	2514.7
70°	7840.9	4127.6	2045.0	2124.7	2344.1	2818.2	3283.5	2920.1	2485.9	2441.6	2372.9
72.5°	3649.0	2483.7	1861.1	1938.6	2104.8	2510.2	3015.4	2685.3	2273.2	2175.7	2082.6
75°	2177.9	1816.8	1644.0	1712.6	1830.1	2182.3	2678.6	2446.0	2071.6	1943.1	1845.6
77.5°	1628.4	1389.2	1404.7	1477.8	1573.1	1909.8	2372.9	2257.7	1916.5	1816.8	1750.3
80°	1172.0	1054.6	1145.4	1225.2	1324.9	1737.0	2273.2	2087.1	1732.6	1599.6	1537.6
82.5°	782.1	757.7	861.9	943.8	1041.3	1519.9	2135.8	1827.8	1480.0	1311.6	1174.3
85°	432.0	456.4	580.5	615.9	700.1	1070.1	1750.3	1468.9	1114.4	897.3	857.4
87.5°	179.5	210.5	312.4	301.3	372.2	638.1	1152.1	886.2	709.0	529.5	412.1
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)