

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: P318781

Luminaire Tested: **GAN-SA7D-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318781
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-SA7D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 55211 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

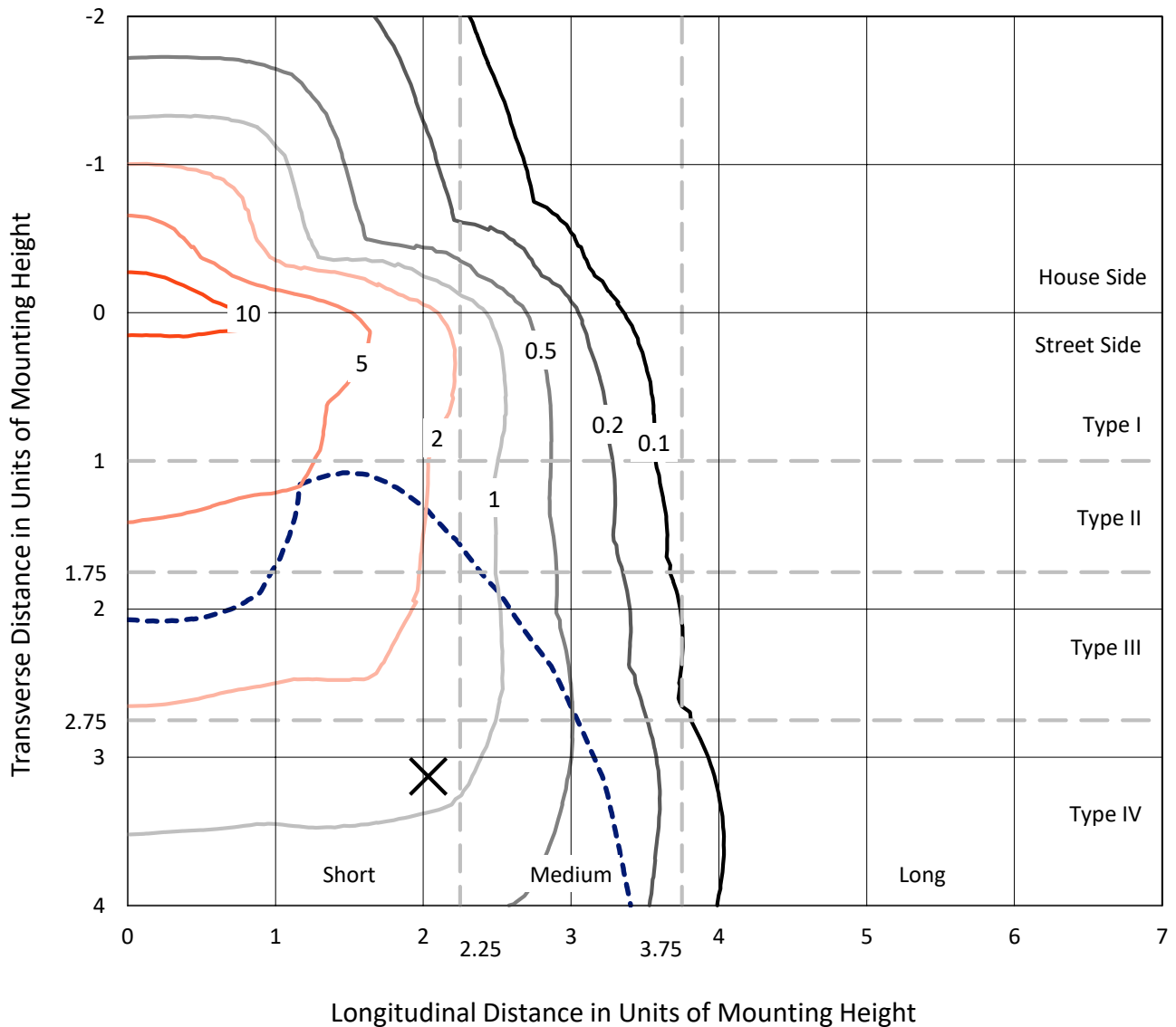
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

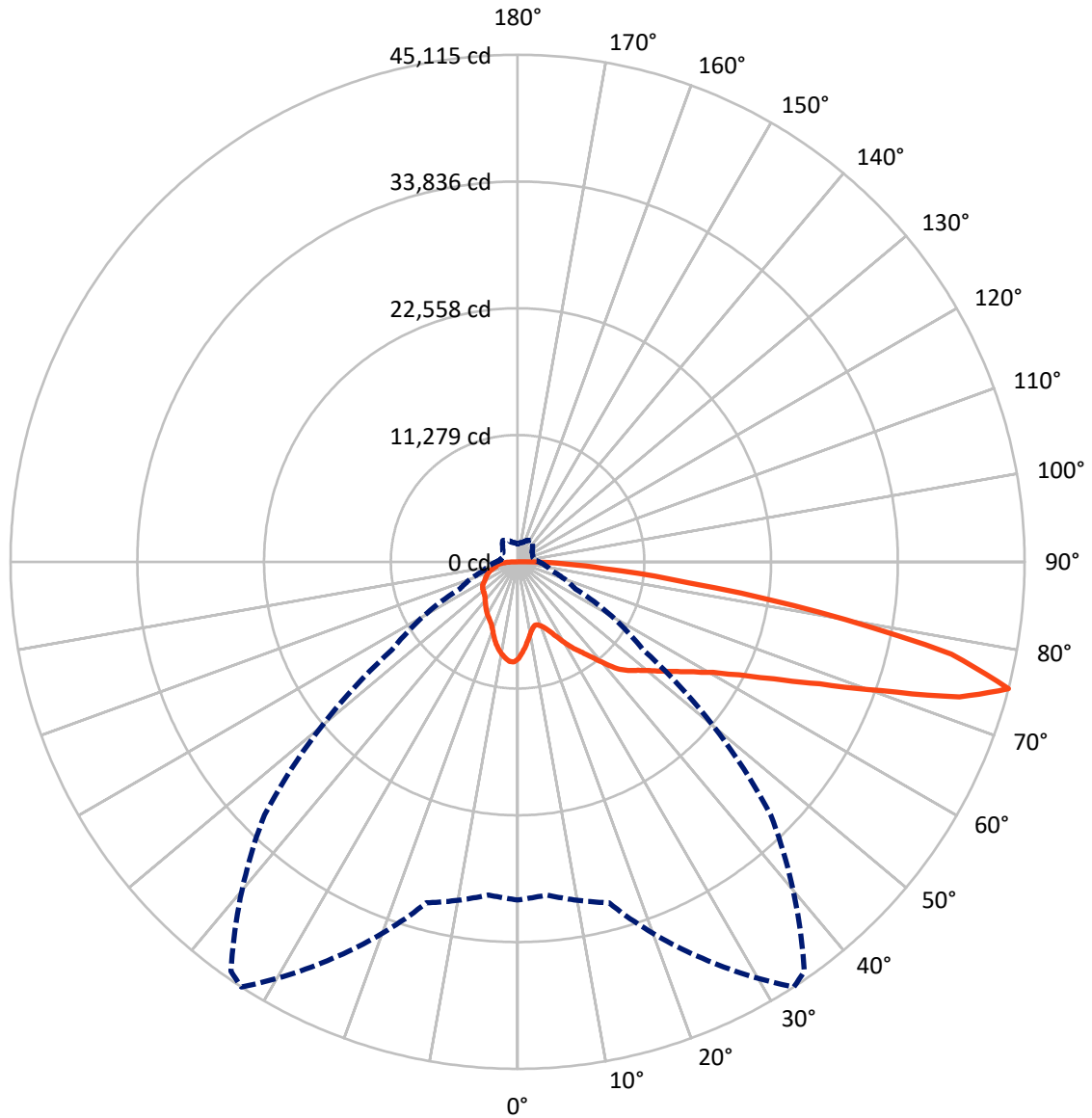
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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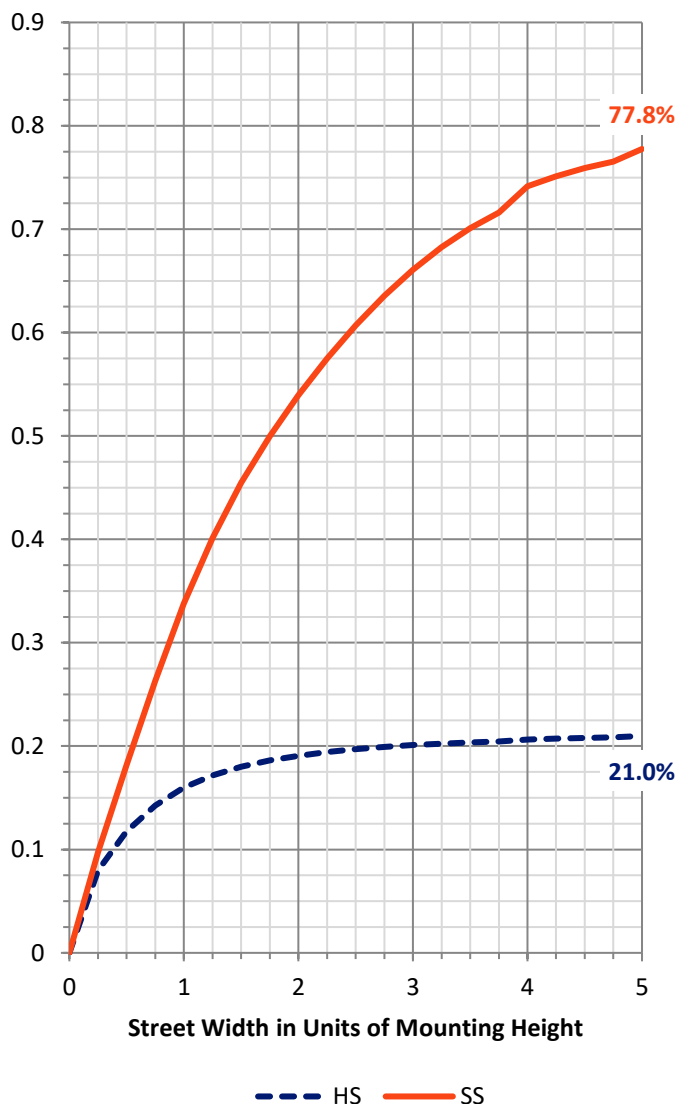
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11855.3	0.0	11855.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	43355.8	0.0	43355.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	55211.0	0.0	55211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.5	1.4
10°-20°	2113.8	3.8
20°-30°	3452.2	6.3
30°-40°	5141.1	9.3
40°-50°	7373.7	13.4
50°-60°	10122.9	18.3
60°-70°	12673.4	23.0
70°-80°	11465.1	20.8
80°-90°	2088.4	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°	55211.0	100.0
0°-180°	55211.0	100.0

Coefficient of Utilization

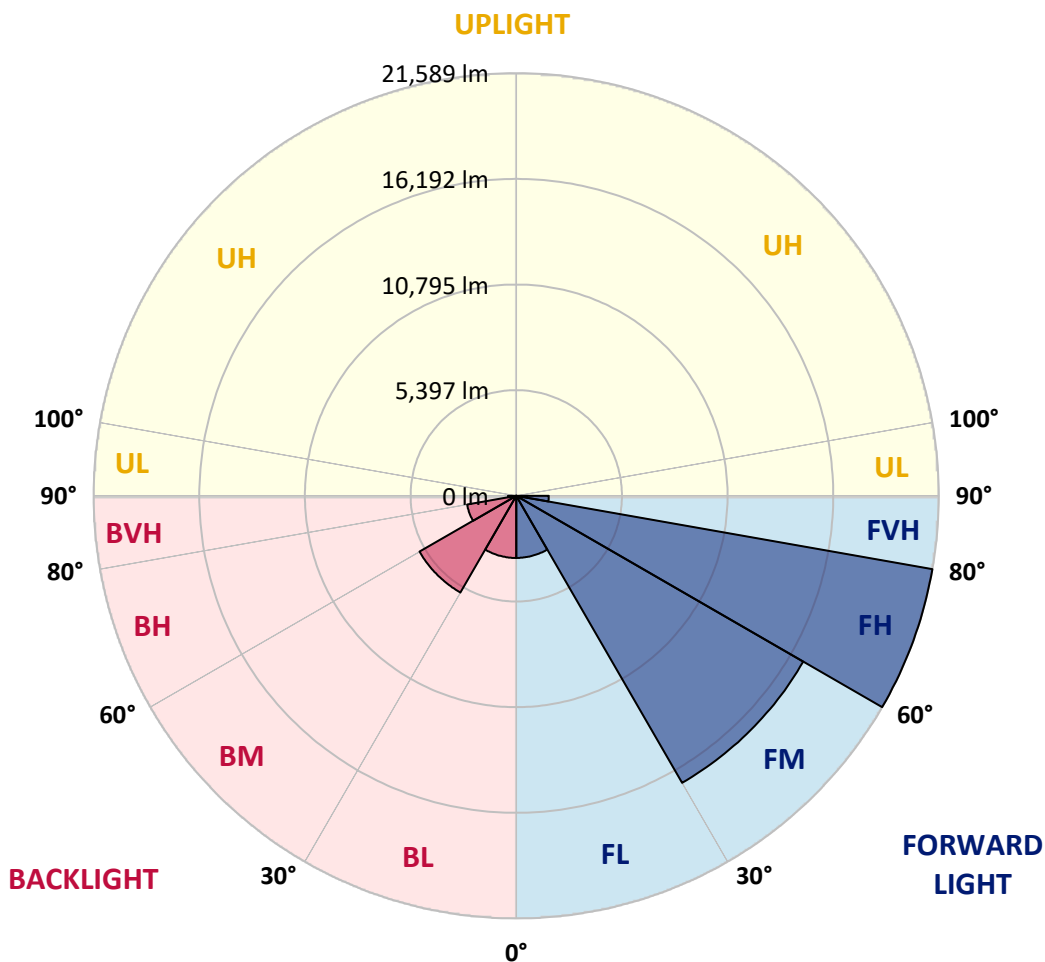


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3171.0	5.7			
FM	(30°-60°)	16932.1	30.7			
FH	(60°-80°)	21589.4	39.1			G5
FVH	(80°-90°)	1663.2	3.0			G5
BL	(0°-30°)	3175.4	5.8	B4/5000		
BM	(30°-60°)	5705.6	10.3	B4/8500		
BH	(60°-80°)	2549.1	4.6	B4/5000		G4/5000
BVH	(80°-90°)	425.2	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°	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8
2.5°	8013.8	7983.3	8040.5	8048.1	8097.7	8116.8	8185.4	8292.2	8380.0	8481.0	8572.6
5°	7287.2	7266.2	7346.3	7403.5	7512.2	7558.0	7720.1	7947.0	8149.2	8378.0	8585.9
7.5°	6596.8	6585.3	6675.0	6804.7	6930.5	6993.5	7273.8	7603.7	7941.3	8311.3	8629.8
10°	6015.1	6011.3	6097.1	6224.9	6409.9	6480.4	6842.8	7277.6	7750.6	8259.8	8704.2
12.5°	5689.0	5702.3	5742.4	5849.2	6020.8	6091.4	6493.8	7004.9	7590.4	8242.6	8812.9
15°	5769.1	5790.1	5721.4	5717.6	5839.6	5895.0	6272.6	6810.4	7476.0	8271.2	8971.2
17.5°	6110.5	6114.3	5933.1	5818.7	5893.0	5921.7	6203.9	6699.8	7409.2	8336.1	9169.5
20°	6591.1	6581.5	6261.1	6070.4	6110.5	6118.1	6301.2	6701.7	7403.5	8448.6	9427.0
22.5°	7228.0	7157.5	6726.5	6467.1	6457.6	6446.1	6551.0	6842.8	7487.4	8631.7	9734.0
25°	8059.6	7992.8	7399.7	7045.0	6968.7	6940.1	6955.3	7144.1	7653.3	8828.1	10077.3
27.5°	8984.5	8868.2	8296.0	7794.5	7636.2	7596.1	7504.6	7569.4	7834.5	9016.9	10485.4
30°	9758.8	9695.9	9196.2	8601.2	8414.3	8357.1	8116.8	8046.2	8095.8	9274.4	11000.4
32.5°	10191.7	10149.8	9846.5	9365.9	9192.4	9112.3	8772.8	8631.7	8515.4	9680.6	11698.4
35°	10716.2	10689.5	10506.4	10157.4	9899.9	9816.0	9552.8	9406.0	9106.6	10239.4	12600.4
37.5°	11383.7	11355.1	11358.9	11076.6	10769.6	10691.4	10517.9	10363.4	9873.2	10973.7	13580.7
40°	12138.9	12083.6	12062.6	12049.3	11854.8	11810.9	11719.3	11509.6	10834.4	11850.9	14547.6
42.5°	13275.6	13079.1	12659.6	12817.9	13010.5	12987.6	13062.0	12760.6	11902.4	12888.4	15491.7
45°	14372.2	14049.9	13325.2	13359.5	13781.0	13908.7	14465.6	14252.0	13060.1	14025.1	16468.1
47.5°	14871.8	14627.7	14011.7	14013.6	14431.3	14696.4	15917.0	15764.4	14276.8	15316.2	17660.1
50°	15430.6	15186.5	14633.5	14841.3	15205.6	15487.8	17318.7	17240.5	15434.4	16729.4	19088.5
52.5°	16040.9	15627.1	15276.2	15648.0	16159.2	16487.2	18722.4	18508.8	16496.7	18152.1	20730.6
55°	16048.5	15936.0	16203.0	16475.7	17240.5	17642.9	20192.8	19628.2	17362.6	19550.0	22067.5
57.5°	16962.1	16779.0	17345.4	17471.3	18470.6	18924.5	21655.5	20602.8	18243.7	20621.9	22788.4
60°	18171.2	18014.8	18478.2	18810.1	19992.5	20599.0	23217.5	21604.0	18935.9	21430.5	22754.0
62.5°	20259.5	20082.1	20076.4	20541.8	22134.2	22839.9	24970.1	22586.2	19210.6	21590.7	21783.3
65°	23316.6	23034.4	22502.3	22723.5	25092.2	25795.9	26928.8	23297.6	18848.2	20732.5	19283.0
67.5°	26291.8	26282.2	25628.1	26082.0	28998.0	29562.5	29160.1	23368.1	17717.3	17744.0	14847.1
70°	29257.4	29295.5	29184.9	30764.0	34275.0	34862.4	31536.4	22420.3	15175.1	12814.0	8894.9
72.5°	31607.0	31597.4	32154.3	36226.0	41123.6	40992.0	33538.9	19548.1	10895.5	6917.2	4251.0
75°	30085.1	29753.2	31412.4	38930.4	45115.2	44472.5	31835.8	13636.0	5654.7	3148.7	2288.6
77.5°	19622.5	19937.2	22372.6	32160.0	39462.5	38680.5	23356.7	6362.2	2664.3	2065.4	1659.2
80°	7106.0	7437.8	10475.9	18217.0	27188.1	27060.3	11501.9	2614.7	1802.2	1560.0	1209.1
82.5°	2444.9	2567.0	4132.8	8090.1	15350.5	15922.7	4327.3	1485.7	1310.2	1106.1	827.7
85°	959.3	1098.5	1890.0	3892.5	7743.0	7800.2	1752.7	888.7	911.6	724.7	453.9
87.5°	364.3	442.5	904.0	1808.0	3535.8	3247.9	627.4	423.4	518.7	431.0	215.5
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°	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8	8629.8
2.5°	8643.1	8683.2	8767.1	8824.3	8885.3	8902.5	8910.1	8925.4	8940.7	8934.9	8936.8
5°	8696.5	8774.7	8910.1	8967.4	8994.1	8963.5	8904.4	8856.7	8822.4	8803.3	8797.6
7.5°	8784.3	8894.9	9039.8	9030.3	8969.3	8833.9	8681.3	8566.9	8471.5	8437.2	8418.1
10°	8900.6	9030.3	9131.4	9022.7	8845.3	8610.7	8381.9	8204.5	8061.5	8006.2	7996.6
12.5°	9049.4	9181.0	9200.0	8969.3	8675.6	8355.2	8044.3	7809.7	7596.1	7527.5	7512.2
15°	9242.0	9365.9	9247.7	8875.8	8465.8	8034.8	7632.4	7313.9	7088.8	7004.9	6974.4
17.5°	9444.1	9562.4	9257.2	8721.3	8191.1	7655.2	7149.9	6823.7	6566.3	6469.0	6457.6
20°	9686.3	9739.7	9217.2	8500.1	7813.5	7163.2	6631.1	6324.1	6186.7	6118.1	6110.5
22.5°	9985.8	9928.5	9125.6	8200.7	7334.8	6594.9	6162.0	6018.9	5984.6	5969.3	5975.1
25°	10302.3	10126.9	8990.2	7809.7	6730.3	6026.5	5818.7	5858.7	5904.5	5898.8	5898.8
27.5°	10651.4	10329.0	8782.4	7291.0	6060.9	5561.2	5586.0	5732.8	5801.5	5799.6	5797.7
30°	11099.5	10557.9	8517.3	6667.3	5435.3	5233.2	5383.8	5563.1	5656.6	5652.8	5654.7
32.5°	11650.7	10809.6	8156.8	5971.2	4983.3	4991.0	5164.5	5341.9	5450.6	5441.1	5443.0
35°	12295.3	11091.9	7668.6	5284.7	4683.9	4798.4	4935.7	5059.6	5162.6	5149.3	5135.9
37.5°	12997.1	11368.4	7020.2	4670.6	4439.8	4619.1	4733.5	4754.5	4802.2	4767.8	4743.0
40°	13664.6	11580.1	6184.8	4167.1	4193.8	4466.5	4540.9	4457.0	4371.2	4359.7	4325.4
42.5°	14246.3	11650.7	5340.0	3764.7	3934.4	4306.3	4352.1	4176.6	4022.1	3949.7	3919.2
45°	14860.4	11675.5	4552.3	3427.1	3684.6	4163.3	4212.9	3978.3	3760.9	3604.5	3553.0
47.5°	15663.3	11854.8	3940.1	3177.3	3493.9	4067.9	4138.5	3820.0	3537.7	3314.6	3266.9
50°	16714.1	12209.5	3442.4	2986.6	3369.9	4005.0	4085.1	3665.5	3354.7	3085.7	3038.1
52.5°	17881.3	12535.6	3040.0	2832.1	3249.8	3894.4	4016.4	3554.9	3183.0	2874.1	2822.6
55°	18697.6	12285.8	2715.8	2671.9	3093.4	3736.1	3921.1	3461.5	2937.0	2668.1	2622.3
57.5°	18853.9	11431.4	2469.7	2506.0	2904.6	3537.7	3774.2	3253.6	2803.5	2578.4	2530.8
60°	18426.7	10241.3	2286.7	2353.4	2702.4	3287.9	3499.6	3106.7	2675.7	2483.1	2443.0
62.5°	17353.0	9022.7	2151.2	2216.1	2513.6	3034.3	3328.0	2952.2	2546.0	2374.4	2334.3
65°	15184.6	7575.1	2021.6	2094.0	2338.1	2814.9	3173.5	2809.2	2418.2	2286.7	2248.5
67.5°	11461.9	5673.7	1899.5	1964.3	2181.8	2624.2	3005.6	2668.1	2294.3	2210.4	2164.6
70°	6749.4	3553.0	1760.3	1828.9	2017.7	2425.9	2826.4	2513.6	2139.8	2101.7	2042.5
72.5°	3141.1	2137.9	1602.0	1668.7	1811.8	2160.8	2595.6	2311.4	1956.7	1872.8	1792.7
75°	1874.7	1563.9	1415.1	1474.2	1575.3	1878.5	2305.7	2105.5	1783.2	1672.6	1588.6
77.5°	1401.7	1195.8	1209.1	1272.1	1354.1	1644.0	2042.5	1943.4	1649.7	1563.9	1506.6
80°	1008.9	907.8	986.0	1054.6	1140.5	1495.2	1956.7	1796.5	1491.4	1377.0	1323.6
82.5°	673.2	652.2	741.9	812.4	896.4	1308.3	1838.5	1573.4	1274.0	1129.0	1010.8
85°	371.9	392.9	499.7	530.2	602.7	921.1	1506.6	1264.4	959.3	772.4	738.1
87.5°	154.5	181.2	268.9	259.4	320.4	549.3	991.7	762.9	610.3	455.8	354.7
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)