

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: P191376

Luminaire Tested: **GAN-AF-08-LED-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47888.4 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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: 28.75 FT

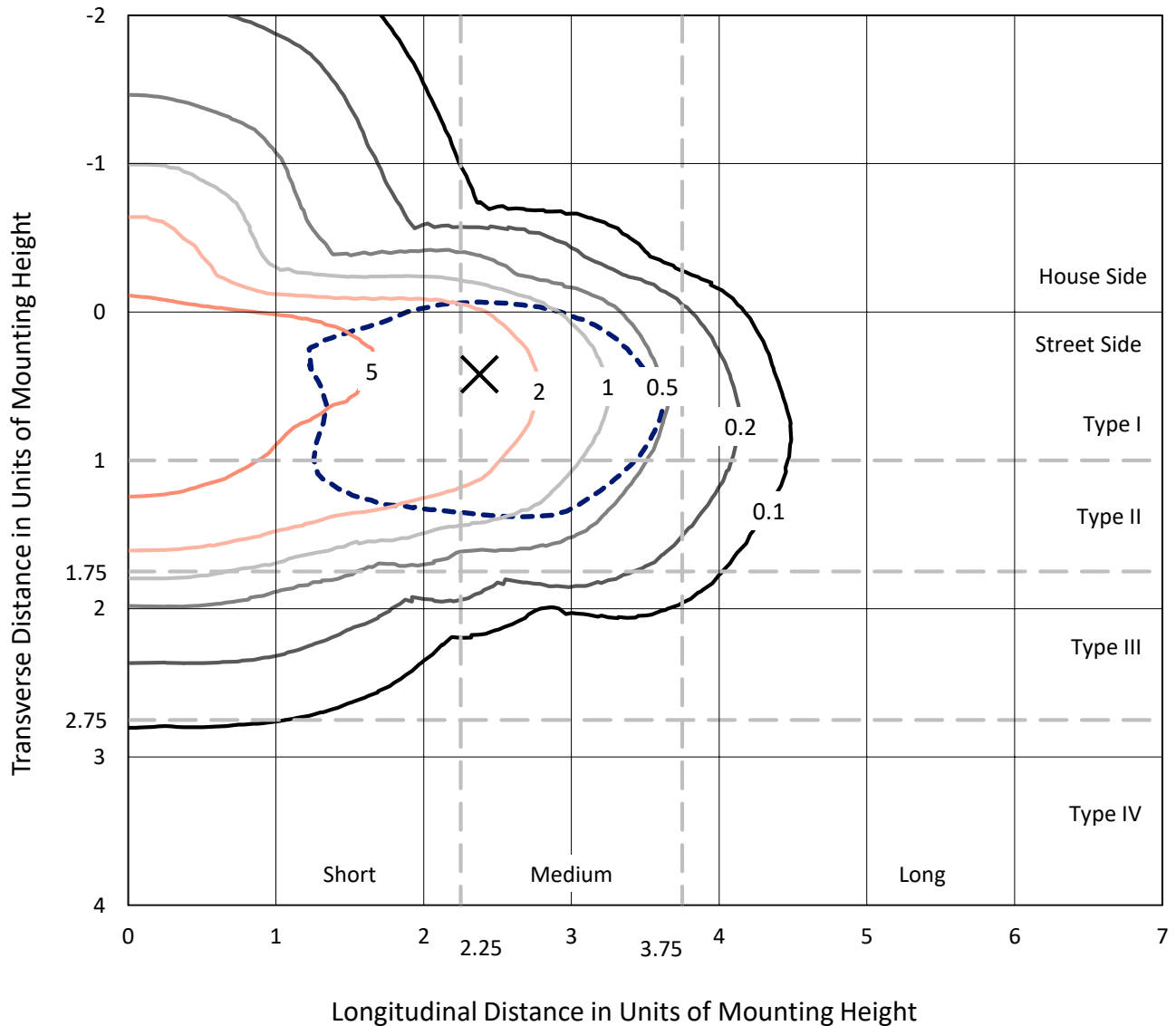


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

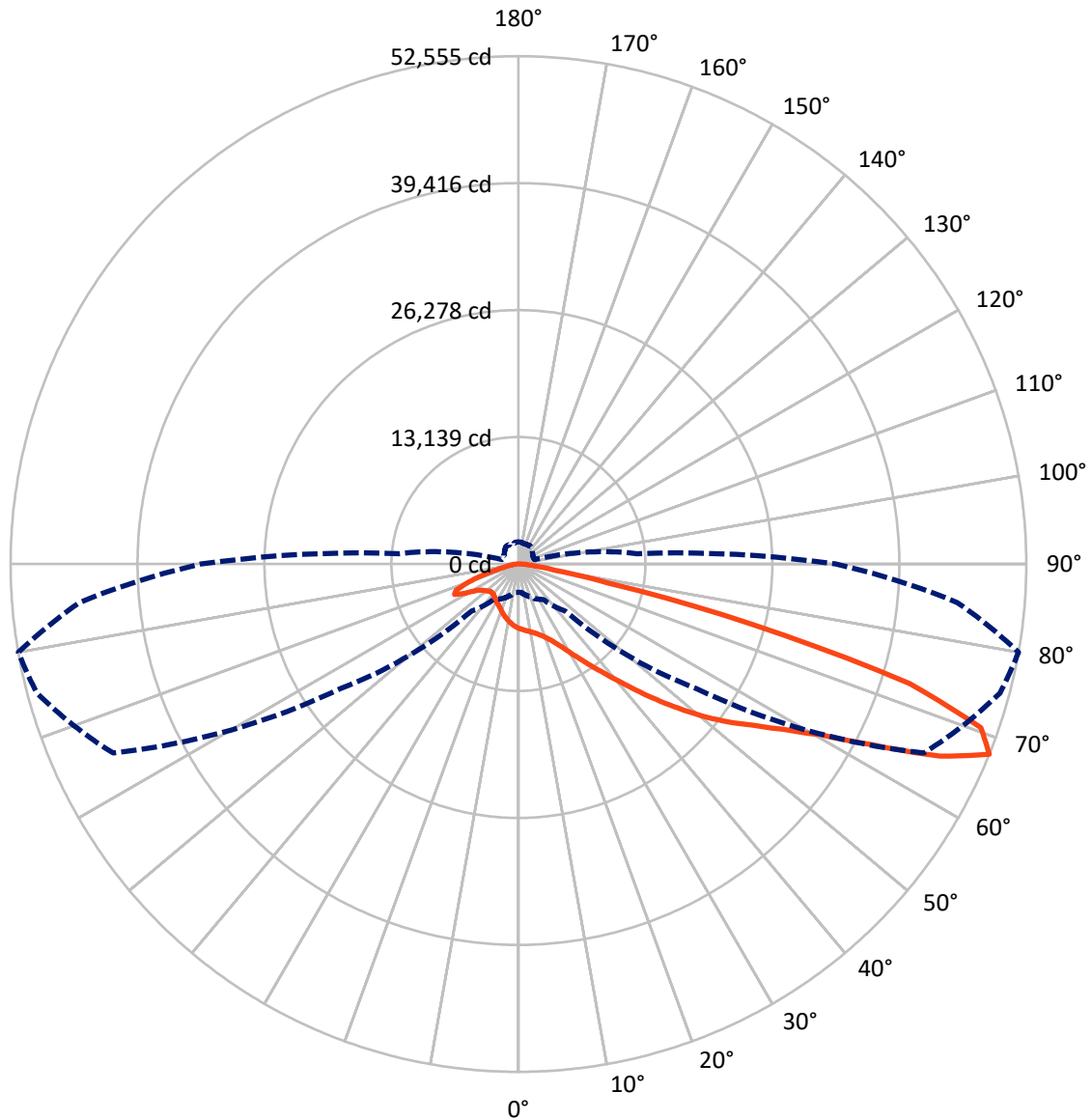


Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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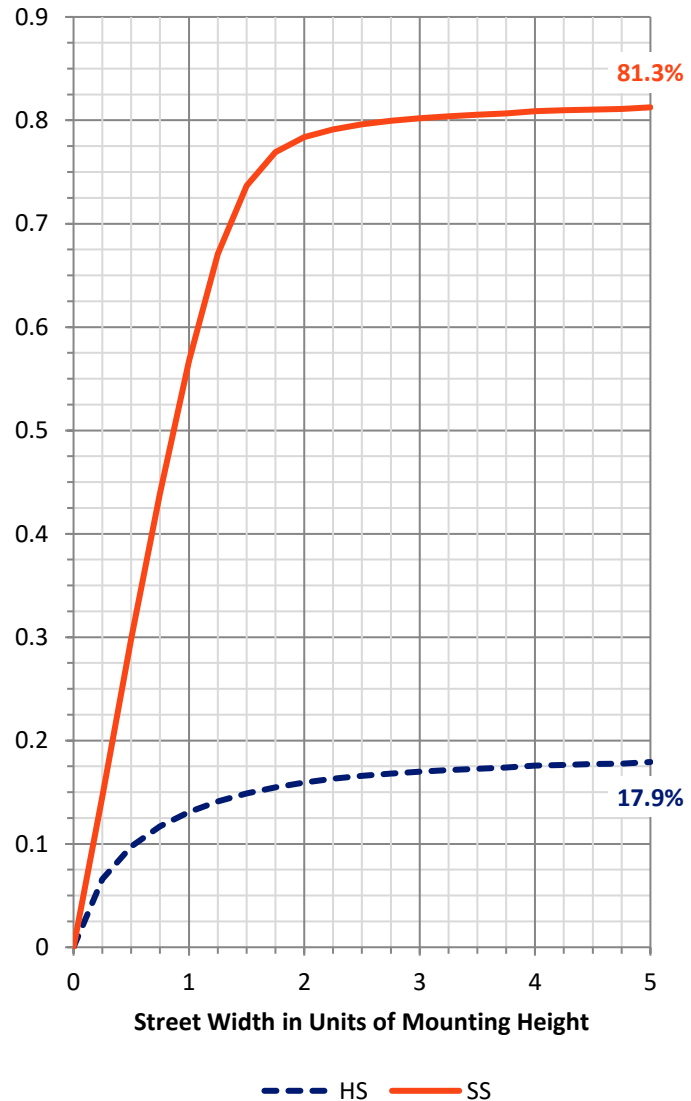
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8819.2	0.0	8819.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	39069.2	0.0	39069.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	47888.4	0.0	47888.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.7	1.3
10°-20°	1767.9	3.7
20°-30°	2926.3	6.1
30°-40°	4786.7	10.0
40°-50°	7728.6	16.1
50°-60°	11157.9	23.3
60°-70°	12313.4	25.7
70°-80°	5675.7	11.9
80°-90°	918.0	1.9
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°	47888.4	100.0
0°-180°	47888.4	100.0



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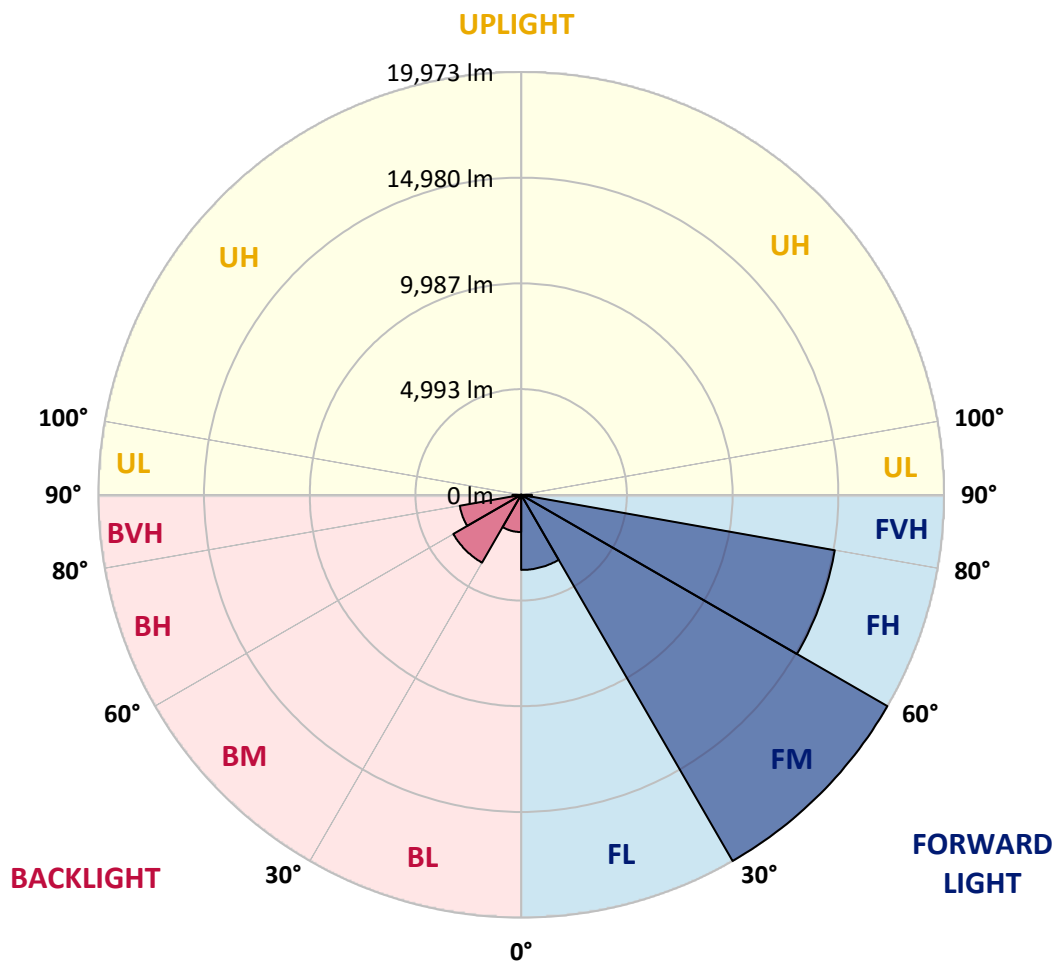
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3548.4	7.4			
FM (30°-60°)	19973.0	41.7			
FH (60°-80°)	15043.0	31.4			G5
FVH (80°-90°)	504.7	1.1			G4/750
BL (0°-30°)	1759.6	3.7	B3/2500		
BM (30°-60°)	3700.2	7.7	B3/5000		
BH (60°-80°)	2946.1	6.2	B4/5000		G4/5000
BVH (80°-90°)	413.3	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1
2.5°	7277.9	7235.4	7242.5	7230.7	7195.3	7134.1	7068.1	6947.8	6822.9	6756.8	6704.9
5°	7886.1	7874.4	7857.8	7820.0	7730.5	7603.2	7445.2	7233.1	7004.3	6884.2	6768.7
7.5°	8341.1	8334.1	8312.8	8289.3	8202.0	8048.8	7810.6	7508.9	7176.5	7011.4	6832.3
10°	8378.9	8390.7	8407.1	8470.7	8482.6	8400.1	8157.2	7791.8	7355.6	7143.5	6914.7
12.5°	8058.2	8084.2	8147.8	8310.5	8482.6	8584.0	8459.0	8088.9	7565.4	7308.5	7018.6
15°	7633.9	7648.0	7725.8	7949.8	8258.6	8572.1	8690.1	8416.5	7836.6	7520.7	7174.2
17.5°	7452.3	7459.4	7513.6	7662.1	7949.8	8397.7	8819.7	8772.5	8169.0	7784.8	7365.0
20°	7360.3	7376.9	7454.7	7600.8	7782.4	8173.7	8838.6	9156.8	8565.1	8114.8	7605.5
22.5°	7622.1	7614.9	7643.3	7716.3	7869.6	8105.4	8824.4	9552.9	9069.6	8539.2	7919.1
25°	8232.7	8258.6	8209.1	8126.6	8176.1	8341.1	8899.9	9982.0	9701.5	9083.8	8329.4
27.5°	9102.6	9076.6	9003.6	8810.3	8708.9	8779.7	9149.8	10444.1	10486.5	9800.5	8871.5
30°	9970.2	9949.0	9878.2	9642.5	9435.1	9376.1	9635.5	10974.5	11422.5	10661.0	9536.5
32.5°	10870.8	10847.3	10781.2	10545.5	10295.6	10158.8	10326.2	11587.5	12525.8	11688.8	10319.1
35°	11981.2	11936.4	11797.4	11469.6	11224.4	11118.4	11196.2	12358.5	13798.9	12905.4	11269.2
37.5°	13025.6	13094.0	12952.5	12499.8	12181.6	12143.9	12231.1	13299.1	15171.1	14265.8	12360.8
40°	14074.8	14086.5	13959.3	13589.1	13261.4	13200.1	13419.4	14440.2	16790.7	15892.5	13688.1
42.5°	15159.2	15182.8	14968.3	14626.5	14386.0	14397.7	14647.6	15777.0	18648.5	17809.2	15215.8
45°	16444.1	16479.5	16243.7	15795.8	15576.6	16017.4	15913.6	17276.3	20685.4	19987.5	16969.8
47.5°	17788.0	17842.2	17663.0	17243.4	16969.8	17575.7	17179.7	18938.4	22878.0	22324.0	18896.0
50°	18521.1	18599.0	18773.4	18742.8	18683.8	18582.4	18591.9	20720.8	25138.9	24756.9	20876.4
52.5°	18127.4	18125.1	18761.6	19534.9	20360.1	20421.4	20312.9	22599.7	27251.3	27135.7	22741.2
55°	16326.3	16448.8	17413.1	18910.2	21164.0	22571.5	22892.1	24752.2	29326.0	29460.4	24634.4
57.5°	13327.4	13428.8	14730.2	16816.6	20079.5	23849.3	26560.5	27880.7	31645.8	32273.0	27154.6
60°	9039.0	9161.5	10540.8	13046.8	17160.8	23137.3	30052.0	33463.5	34423.0	35849.4	30691.0
62.5°	5311.7	5422.5	6547.0	8230.4	12082.6	19829.6	31584.5	41406.2	38834.1	41245.9	36085.1
65°	3656.6	3732.0	4279.0	5123.0	6943.1	13355.7	29684.3	46889.9	45621.6	47932.0	42339.8
67.5°	2942.2	2932.8	3366.6	3941.8	4470.0	6886.5	22446.5	46269.9	51591.0	52555.2	45586.2
70°	2423.6	2414.2	2708.9	3185.1	3571.7	3878.2	12226.4	39046.2	50374.4	50765.8	42596.8
72.5°	2027.5	2036.9	2225.5	2579.2	2930.4	2921.0	5372.9	27468.2	39628.6	42335.1	33956.2
75°	1711.6	1716.3	1841.3	2091.2	2378.8	2352.9	2914.0	14881.1	23035.9	24919.6	18822.9
77.5°	1457.0	1461.7	1541.9	1680.9	1886.0	1876.6	2126.5	6429.1	9609.5	9491.7	6438.6
80°	1299.0	1299.0	1336.8	1362.7	1475.8	1433.4	1577.2	3088.4	4062.1	3751.0	2569.8
82.5°	1018.4	1023.2	1254.2	1244.8	1162.3	1108.1	1108.1	1820.0	2152.5	1989.8	1504.1
85°	572.9	570.5	808.6	976.0	1023.2	780.4	773.2	1018.4	1171.7	1032.7	728.4
87.5°	245.2	249.9	374.8	433.8	580.0	485.7	478.6	525.7	596.5	516.3	337.2
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°	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1	6653.1
2.5°	6655.4	6594.1	6459.7	6292.4	6141.5	6042.5	5952.9	5823.2	5830.3	5740.7	5674.7
5°	6650.7	6523.5	6212.2	5842.1	5486.1	5229.1	5035.8	4861.4	4818.9	4736.4	4686.9
7.5°	6655.4	6448.0	5924.6	5332.8	4892.0	4566.7	4401.7	4309.7	4288.4	4260.2	4262.5
10°	6672.0	6379.6	5608.6	4856.7	4394.5	4180.0	4139.9	4168.2	4201.3	4210.7	4213.0
12.5°	6709.6	6318.4	5262.2	4432.2	4083.3	4017.3	4085.7	4182.3	4246.0	4276.7	4274.3
15°	6794.5	6271.2	4929.7	4099.9	3911.3	3946.5	4073.9	4210.7	4302.6	4345.0	4347.3
17.5°	6886.5	6202.8	4587.8	3845.2	3783.9	3873.5	4031.4	4191.7	4305.0	4352.1	4361.6
20°	7006.7	6118.0	4229.5	3654.3	3663.7	3765.1	3913.6	4073.9	4198.8	4238.9	4257.8
22.5°	7164.6	6026.0	3916.0	3498.7	3526.9	3604.8	3720.3	3859.4	3967.8	3986.6	4003.2
25°	7376.9	5927.0	3666.1	3357.2	3369.0	3413.8	3491.5	3574.1	3649.6	3628.3	3644.8
27.5°	7662.1	5842.1	3479.8	3227.5	3206.3	3215.7	3255.8	3281.7	3321.8	3262.9	3270.0
30°	7996.9	5750.1	3335.9	3114.4	3055.5	3038.9	3048.4	3062.5	3093.1	3013.0	3001.2
32.5°	8385.9	5639.3	3201.6	3015.4	2932.8	2899.9	2904.6	2942.2	3060.2	3010.6	2984.7
35°	8838.6	5514.4	3060.2	2906.9	2850.4	2803.2	2798.5	2916.3	3267.6	3236.9	3213.4
37.5°	9369.0	5389.4	2918.7	2784.3	2789.0	2737.1	2720.6	2855.1	3307.7	3187.4	3170.9
40°	10043.3	5323.4	2798.5	2654.7	2713.6	2706.5	2673.5	2741.9	3043.7	2824.4	2796.1
42.5°	10877.9	5332.8	2708.9	2515.5	2624.0	2699.5	2647.6	2650.0	2758.4	2593.4	2567.4
45°	11908.2	5443.6	2645.2	2404.8	2522.6	2692.4	2638.1	2600.4	2609.9	2522.6	2508.5
47.5°	13110.5	5672.4	2600.4	2312.8	2425.9	2666.4	2635.7	2586.2	2565.0	2517.9	2506.1
50°	14447.2	6004.7	2567.4	2225.5	2338.7	2624.0	2638.1	2572.1	2548.6	2529.7	2522.6
52.5°	15760.4	6384.3	2517.9	2150.1	2270.3	2572.1	2645.2	2558.0	2532.0	2517.9	2510.8
55°	17224.4	6858.2	2442.5	2086.4	2213.8	2506.1	2645.2	2536.7	2508.5	2510.8	2508.5
57.5°	19202.5	7624.5	2352.9	2032.2	2145.4	2425.9	2600.4	2513.2	2477.8	2480.1	2482.5
60°	22293.3	8975.3	2244.5	1978.0	2060.5	2331.6	2539.1	2461.3	2425.9	2435.3	2437.7
62.5°	26838.8	10958.1	2103.0	1897.9	1970.9	2230.2	2454.3	2395.3	2359.9	2383.5	2383.5
65°	31563.2	12707.4	1928.5	1796.5	1876.6	2119.5	2348.2	2312.8	2277.4	2331.6	2329.3
67.5°	32834.1	12316.0	1754.1	1685.7	1782.3	1996.9	2220.8	2202.0	2183.1	2277.4	2272.7
70°	29168.0	9887.7	1593.8	1572.5	1678.6	1864.8	2084.1	2084.1	2072.3	2143.1	2126.5
72.5°	22222.6	7011.4	1440.5	1452.3	1560.7	1721.0	1935.5	1952.1	1933.2	1968.6	1954.4
75°	11896.3	4012.6	1287.3	1320.2	1414.5	1574.8	1770.5	1787.1	1775.2	1772.9	1779.9
77.5°	3953.7	1961.5	1126.9	1178.7	1261.3	1423.9	1598.5	1624.3	1596.1	1591.4	1589.1
80°	1761.1	1233.1	950.1	1018.4	1091.6	1251.9	1416.9	1438.2	1407.5	1449.9	1395.7
82.5°	1131.6	811.0	761.5	837.0	907.7	1079.7	1235.4	1240.1	1211.8	1407.5	1200.0
85°	549.3	502.2	572.9	641.3	702.6	848.7	1023.2	1025.5	954.8	869.9	839.3
87.5°	273.4	292.4	382.0	443.2	473.8	582.4	745.0	730.9	700.2	636.6	587.1
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)