

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: P318368

Luminaire Tested: **GAN-SA4C-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25991 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

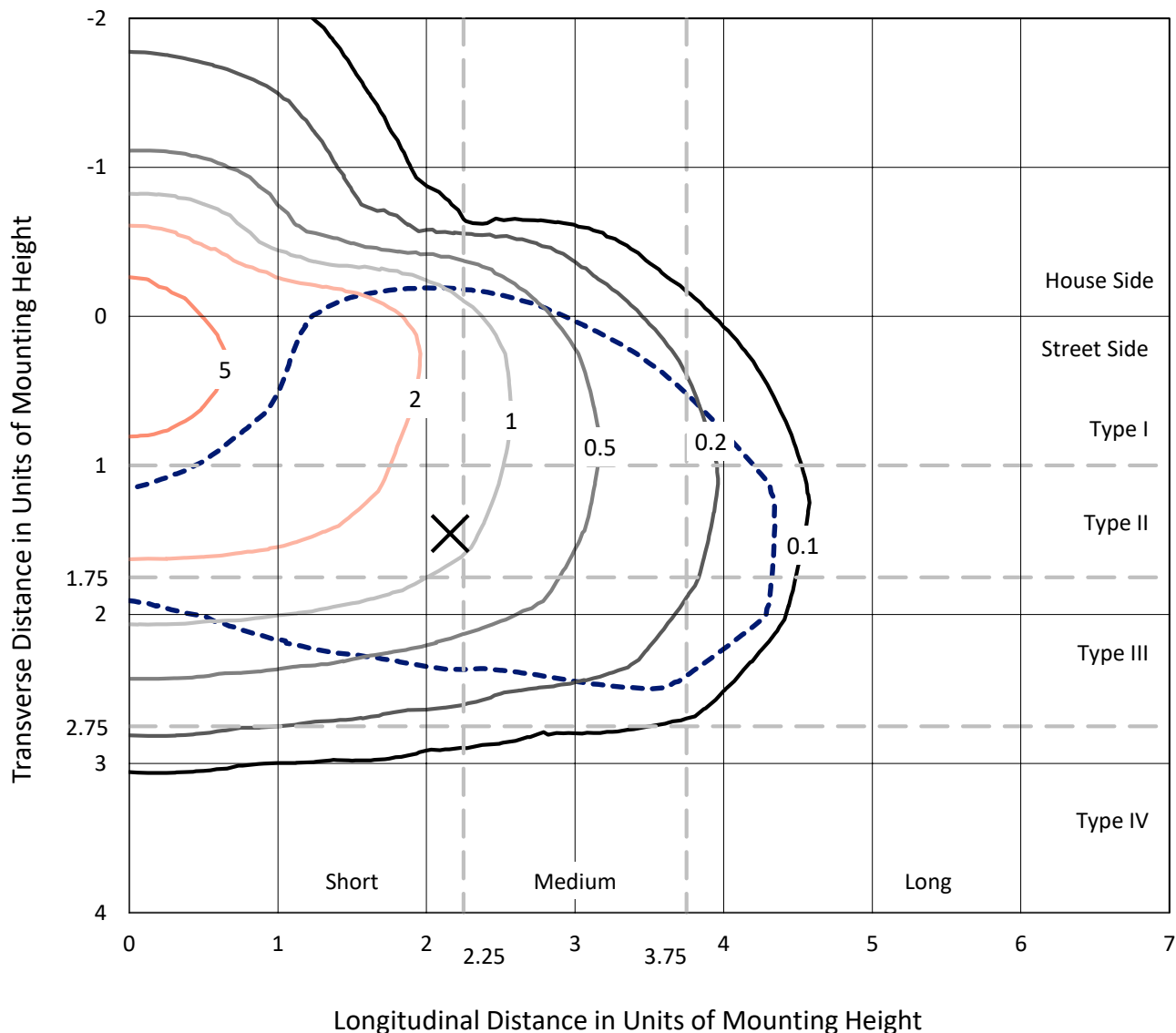
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

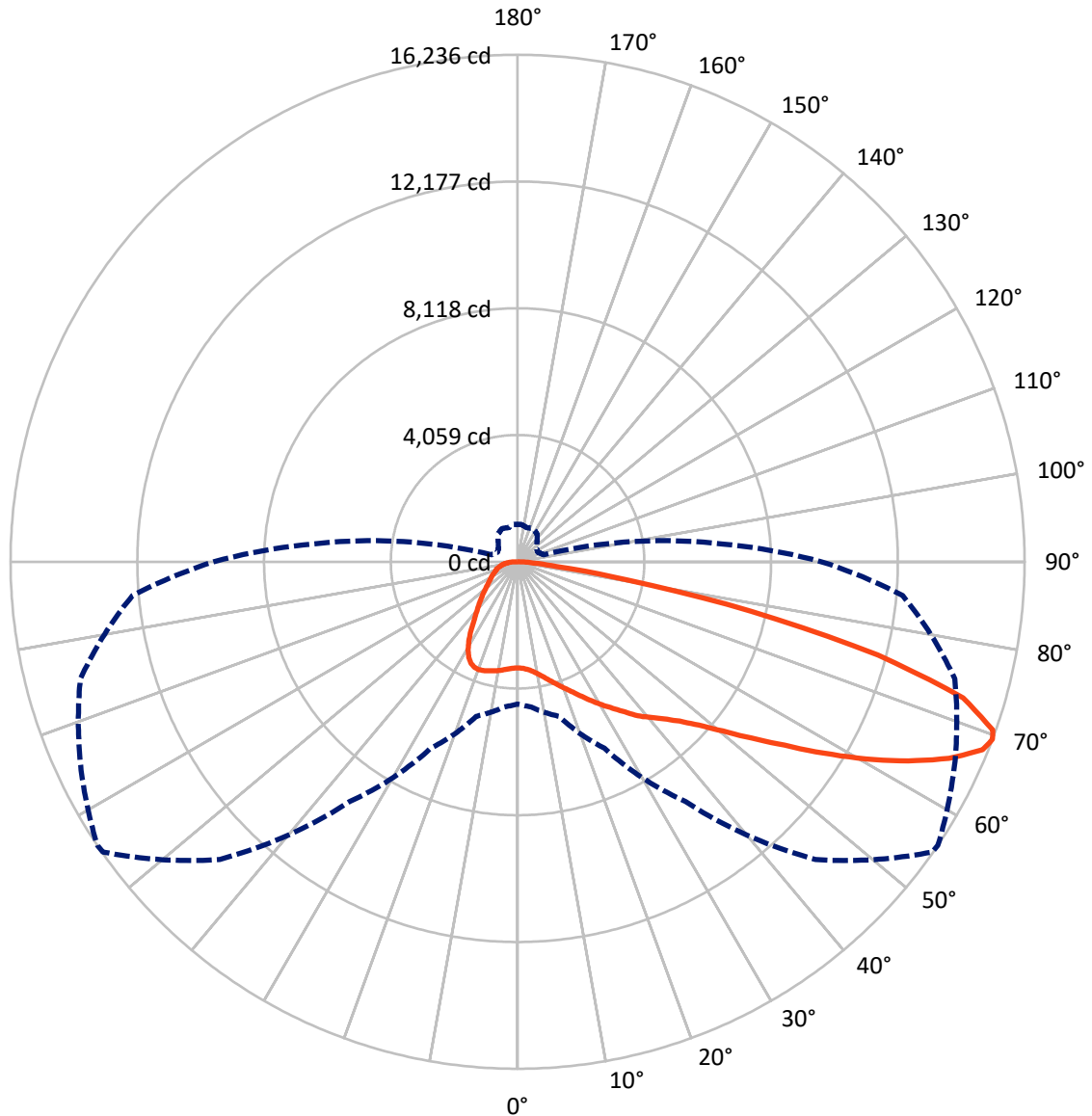
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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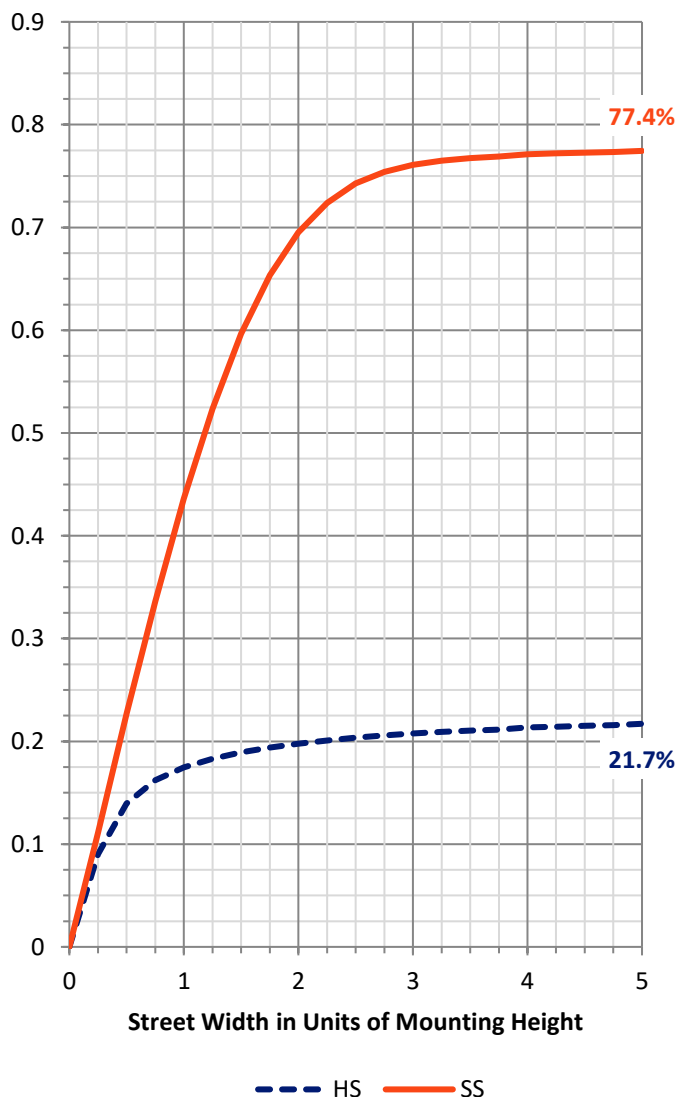
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5788.1	0.0	5788.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20202.9	0.0	20202.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	25991.0	0.0	25991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.3
10°-20°	1073.1	4.1
20°-30°	1873.3	7.2
30°-40°	2690.9	10.4
40°-50°	3724.1	14.3
50°-60°	5456.3	21.0
60°-70°	6652.3	25.6
70°-80°	3677.8	14.2
80°-90°	509.4	2.0
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°	25991.0	100.0
0°-180°	25991.0	100.0

Coefficient of Utilization



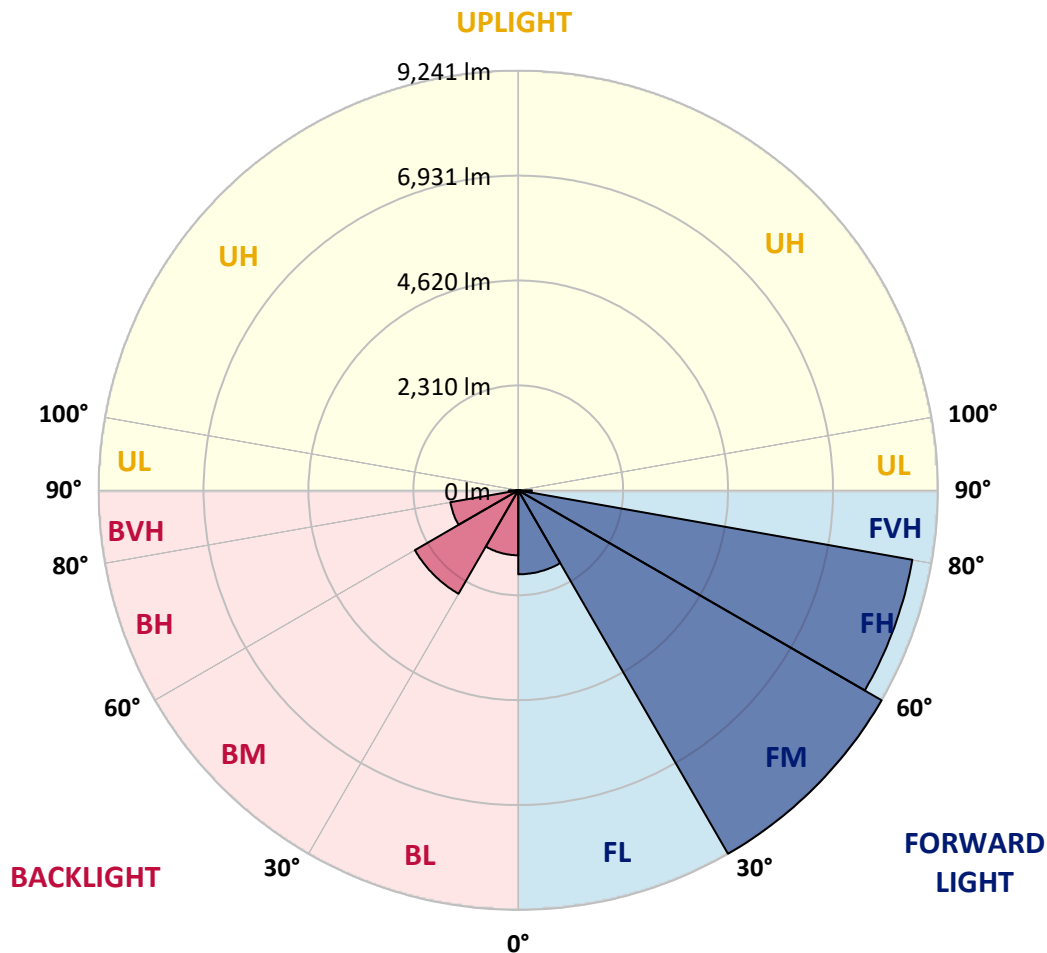
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.8	7.1			
FM (30°-60°)	9240.8	35.6			
FH (60°-80°)	8812.3	33.9			G4/12000
FVH (80°-90°)	300.0	1.2			G3/500
BL (0°-30°)	1430.4	5.5	B3/2500		
BM (30°-60°)	2630.6	10.1	B3/5000		
BH (60°-80°)	1517.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	209.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9
2.5°	3419.4	3423.0	3420.3	3427.5	3419.4	3424.8	3420.3	3420.3	3417.6	3409.6	3400.6
5°	3473.1	3480.3	3475.8	3483.0	3473.1	3474.9	3466.9	3466.9	3458.8	3441.8	3423.9
7.5°	3557.3	3565.4	3561.8	3568.9	3555.5	3555.5	3544.8	3543.9	3527.8	3500.0	3479.4
10°	3657.6	3668.3	3664.8	3675.5	3664.8	3668.3	3657.6	3657.6	3636.1	3596.7	3570.7
12.5°	3803.5	3817.0	3807.1	3806.2	3801.7	3808.9	3800.0	3798.2	3778.5	3724.7	3688.9
15°	3998.7	4013.1	3992.5	3990.7	3965.6	3962.9	3962.9	3960.2	3947.7	3883.2	3824.1
17.5°	4223.5	4227.9	4210.0	4181.4	4149.1	4128.6	4125.9	4133.0	4133.0	4057.8	3963.8
20°	4443.7	4451.8	4437.5	4405.2	4364.0	4333.6	4312.1	4326.4	4325.5	4236.0	4102.6
22.5°	4683.7	4702.5	4681.0	4639.8	4591.5	4557.4	4519.8	4532.4	4533.3	4423.1	4238.7
25°	4994.4	4977.4	4963.9	4905.7	4836.8	4801.9	4767.0	4779.5	4775.9	4624.6	4379.3
27.5°	5269.3	5272.8	5254.9	5193.2	5113.5	5036.5	5034.7	5042.7	5029.3	4834.1	4511.8
30°	5588.9	5590.7	5565.6	5510.1	5423.3	5323.9	5300.6	5314.0	5285.4	5032.9	4651.5
32.5°	5906.8	5915.7	5888.0	5820.8	5751.0	5630.1	5583.5	5592.5	5520.9	5236.1	4795.6
35°	6185.2	6197.8	6188.8	6144.0	6067.9	5964.1	5908.6	5903.2	5814.5	5485.0	4986.3
37.5°	6469.1	6480.7	6470.8	6433.2	6402.8	6292.7	6263.1	6263.1	6109.1	5739.3	5229.0
40°	6760.9	6778.9	6767.2	6715.3	6689.3	6639.2	6568.4	6551.4	6384.9	6044.6	5624.7
42.5°	7032.2	7055.5	7102.1	7071.6	7018.8	7026.0	6883.6	6874.7	6752.9	6495.9	6121.6
45°	7417.3	7451.3	7530.1	7506.8	7496.0	7456.6	7287.4	7279.4	7232.8	7103.0	6738.6
47.5°	7837.2	7883.7	8026.1	8030.6	8146.1	8071.8	7841.7	7813.9	7824.6	7830.0	7491.6
50°	8224.0	8275.0	8508.7	8618.8	8891.0	8907.1	8539.2	8514.1	8556.2	8679.7	8369.0
52.5°	8532.9	8597.3	8889.2	9229.5	9696.0	9828.5	9397.8	9379.0	9410.3	9623.4	9361.1
55°	8759.4	8829.3	9147.1	9766.7	10511.7	10745.3	10386.3	10368.4	10388.1	10659.4	10440.0
57.5°	8812.2	8829.3	9290.4	10128.4	11200.2	11761.6	11595.9	11560.1	11463.4	11699.8	11630.9
60°	8564.2	8632.3	9172.2	10255.6	11732.9	12763.5	12860.2	12815.4	12544.1	12737.5	12682.0
62.5°	8061.0	8182.8	8730.8	10062.2	11941.6	13581.9	14100.3	14046.6	13579.2	13704.5	13437.7
65°	7239.1	7291.0	7866.7	9395.1	11676.5	14105.7	15206.1	15179.2	14591.0	14394.9	13577.4
67.5°	5768.9	5866.5	6355.3	8001.0	10592.2	14043.9	16061.2	16058.5	15251.7	14651.0	13082.3
69°	4557.4	4658.6	5124.2	6590.8	9372.7	13478.9	16204.4	16235.8	15438.0	14495.2	12374.9
70°	3633.4	3750.7	4070.4	5551.3	8290.2	12734.0	16085.3	16141.7	15402.2	14238.2	11722.2
72.5°	1546.3	1641.2	1868.6	2861.6	5052.6	9508.8	14707.4	14920.5	14572.2	13031.2	9687.9
75°	675.1	704.7	807.6	1166.7	2242.9	5175.2	11521.6	11915.6	12460.0	11014.9	7216.7
77.5°	494.2	506.8	563.2	685.0	1006.4	1954.6	7409.2	7638.4	8985.9	8015.4	4426.7
80°	382.3	391.3	435.2	503.2	657.2	790.6	3379.1	3576.1	5052.6	4116.9	1843.6
82.5°	304.4	310.7	341.1	370.7	454.0	479.0	1121.9	1244.6	1865.1	1137.1	488.0
85°	282.9	290.1	300.8	270.4	291.0	281.1	485.3	507.7	563.2	446.8	204.1
87.5°	128.0	151.3	298.2	210.4	154.9	123.6	198.8	207.7	233.7	234.6	90.4
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°	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9	3397.9
2.5°	3406.0	3403.3	3407.8	3397.0	3410.5	3409.6	3405.1	3406.9	3415.8	3414.9	3415.8
5°	3426.6	3424.8	3430.2	3422.1	3438.2	3443.6	3444.5	3452.5	3462.4	3465.1	3465.1
7.5°	3478.5	3478.5	3481.2	3470.5	3481.2	3480.3	3475.8	3483.9	3493.7	3494.6	3493.7
10°	3568.1	3568.9	3564.5	3536.7	3527.8	3503.6	3481.2	3482.1	3494.6	3504.5	3507.2
12.5°	3680.9	3677.3	3657.6	3606.6	3568.9	3519.7	3496.4	3495.5	3508.1	3516.1	3518.8
15°	3809.8	3800.0	3748.9	3665.6	3599.4	3551.0	3513.4	3504.5	3497.3	3488.4	3489.3
17.5°	3931.6	3909.2	3824.1	3708.6	3638.8	3574.3	3501.8	3443.6	3403.3	3380.0	3372.9
20°	4055.1	4011.3	3888.6	3748.9	3660.3	3543.0	3403.3	3285.1	3211.7	3177.7	3171.4
22.5°	4168.0	4097.2	3948.6	3791.0	3643.3	3437.3	3218.0	3046.1	2944.0	2898.3	2901.9
25°	4278.1	4179.6	4011.3	3820.5	3557.3	3251.1	2960.1	2748.8	2630.6	2579.6	2577.8
27.5°	4374.8	4262.9	4079.3	3796.4	3397.0	2986.1	2654.8	2448.8	2350.3	2306.5	2299.3
30°	4485.8	4367.6	4169.7	3704.1	3162.4	2679.8	2356.6	2211.6	2141.7	2097.9	2089.8
32.5°	4621.0	4510.0	4244.1	3536.7	2862.5	2360.2	2123.8	2022.6	1959.1	1909.8	1900.9
35°	4818.0	4698.0	4262.9	3296.8	2533.0	2107.7	1952.8	1848.9	1763.0	1699.4	1693.1
37.5°	5065.1	4933.5	4219.9	2986.1	2213.4	1943.8	1810.4	1682.4	1570.5	1480.9	1466.6
40°	5421.5	5222.7	4100.8	2627.9	1977.9	1817.6	1671.7	1525.7	1386.9	1282.2	1261.6
42.5°	5849.5	5562.0	3918.1	2271.6	1805.1	1689.6	1533.8	1352.9	1220.4	1146.1	1135.3
45°	6393.8	5914.8	3664.8	1960.0	1634.9	1561.5	1385.1	1218.6	1136.2	1081.6	1072.7
47.5°	7015.2	6310.6	3398.8	1706.6	1490.8	1441.5	1266.1	1158.6	1093.2	1050.3	1042.2
50°	7779.0	6757.4	3116.8	1498.9	1345.7	1297.4	1209.6	1125.5	1073.5	1040.4	1032.4
52.5°	8640.3	7261.5	2913.5	1335.0	1225.8	1190.8	1180.1	1107.6	1065.5	1040.4	1032.4
55°	9567.9	7774.5	2694.2	1197.1	1121.9	1131.7	1160.4	1109.4	1080.7	1050.3	1038.6
57.5°	10496.4	8304.6	2449.7	1080.7	1039.5	1087.9	1147.0	1112.9	1088.8	1059.2	1048.5
60°	11230.6	8640.3	2071.0	983.1	974.2	1039.5	1114.7	1086.1	1054.7	1055.6	1053.9
62.5°	11573.6	8622.4	1652.9	896.3	908.8	974.2	1062.8	1044.0	1018.0	1053.0	1055.6
65°	11381.1	8192.6	1286.6	817.5	839.0	906.1	1009.1	1023.4	1032.4	1099.5	1108.5
67.5°	10573.4	7356.4	996.5	748.5	775.4	859.6	1014.5	1114.7	1126.4	1197.1	1196.2
69°	9738.1	6572.0	865.8	712.7	744.1	871.2	1084.3	1172.9	1129.1	1204.3	1193.5
70°	9037.9	5951.5	796.0	688.5	729.7	891.8	1130.9	1172.0	1115.6	1180.1	1162.2
72.5°	6960.6	4281.7	675.1	643.8	681.4	853.3	1144.3	1146.1	1084.3	1096.8	1066.4
75°	4774.1	2705.8	589.2	582.9	608.0	769.1	1101.3	1095.0	1002.8	984.9	959.8
77.5°	2632.4	1374.4	500.5	524.7	541.7	681.4	1001.0	992.1	916.0	878.4	869.4
80°	1015.4	601.7	422.6	466.5	477.2	590.0	877.5	869.4	805.8	757.5	744.1
82.5°	383.2	315.2	349.2	403.8	400.2	487.1	743.2	738.7	676.9	606.2	584.7
85°	177.3	188.9	276.7	333.1	307.1	360.8	594.5	602.6	527.4	443.2	443.2
87.5°	75.2	105.7	196.1	251.6	206.8	243.5	436.0	416.3	382.3	265.0	248.9
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)