

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: P478690

Luminaire Tested: **IFLD-L-SA7C-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478690
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

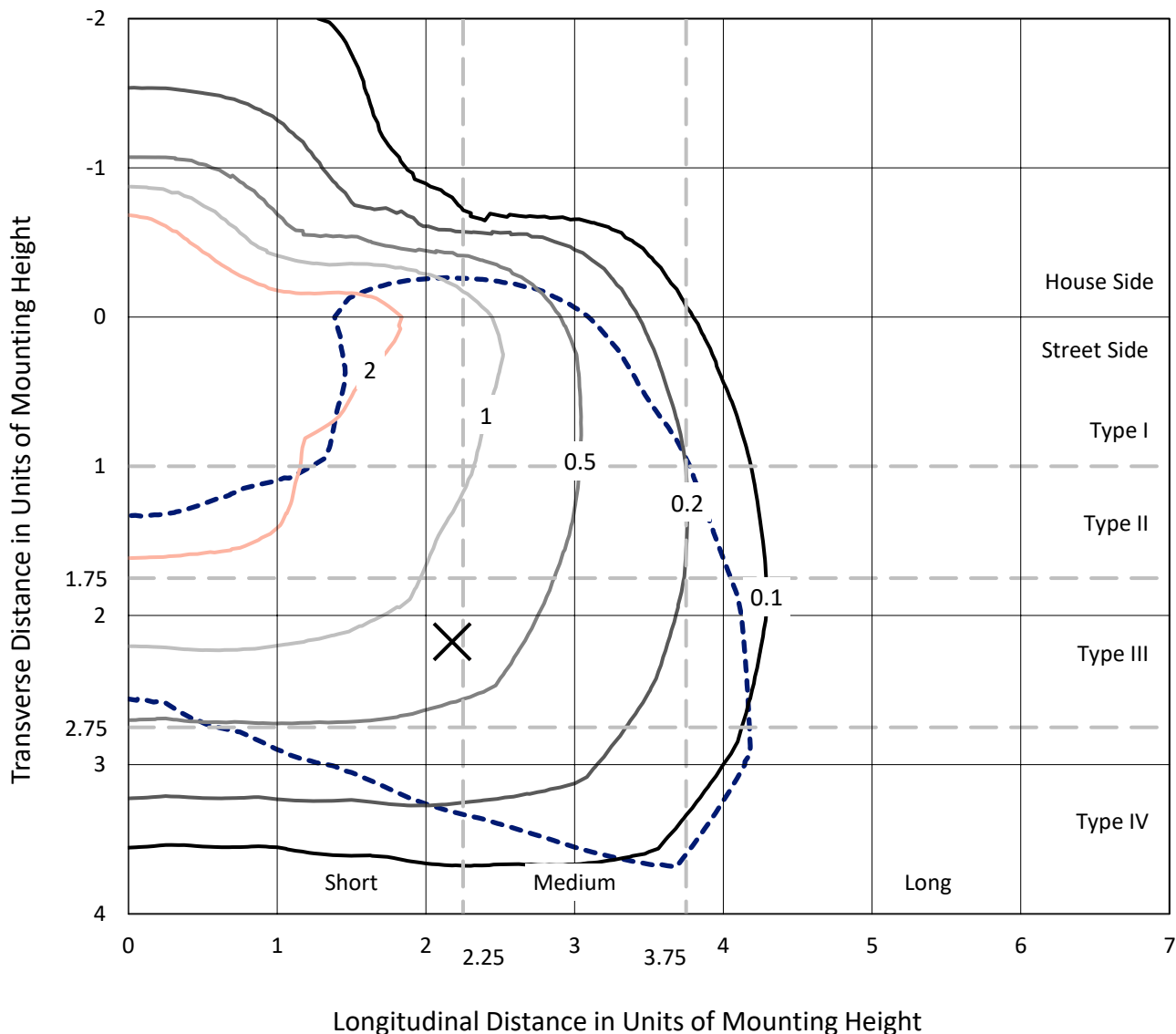
Lumens per Lamp: N/A
Luminaire Lumens: 32938.9 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
Input Voltage (V): 120
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

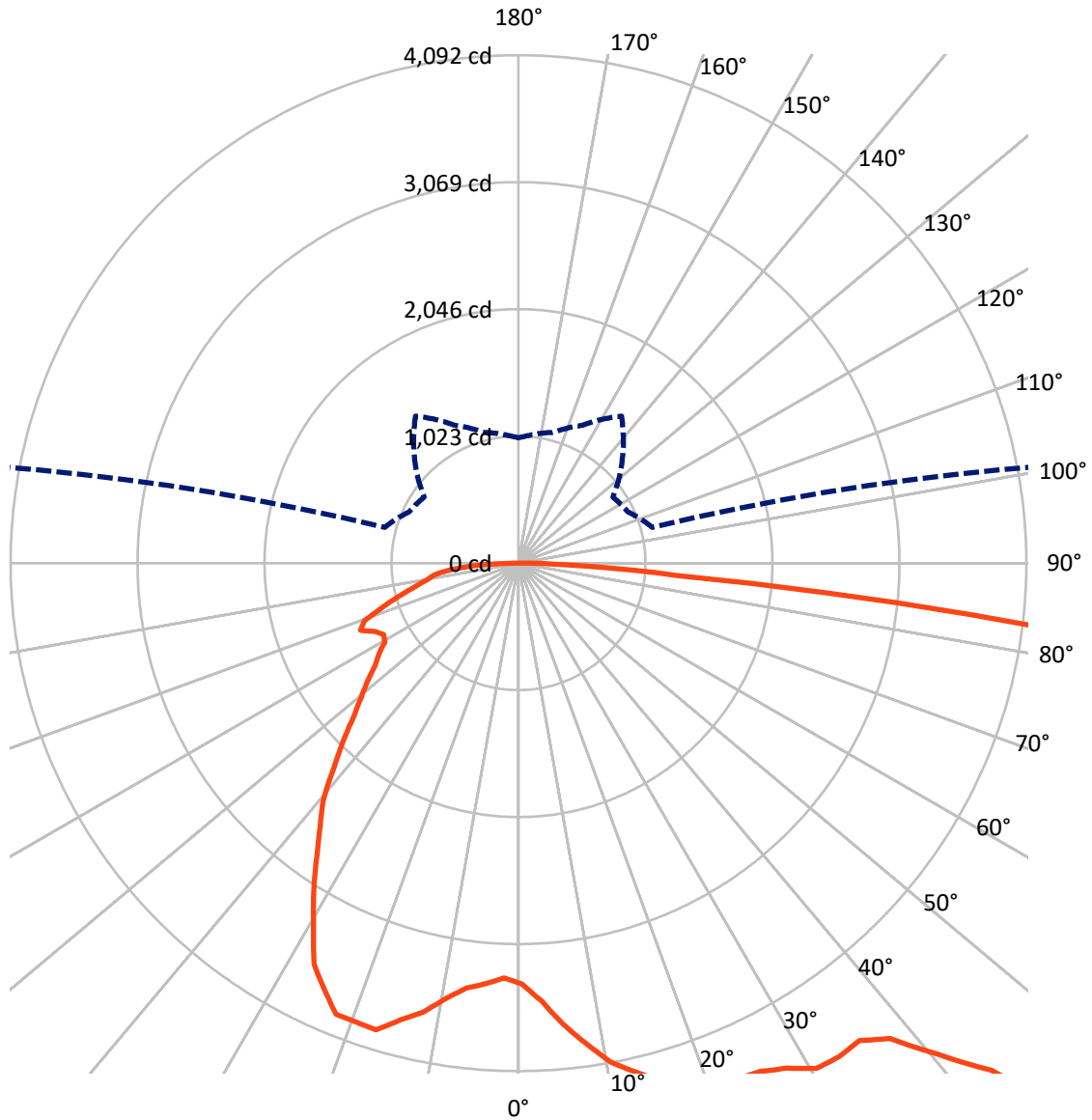
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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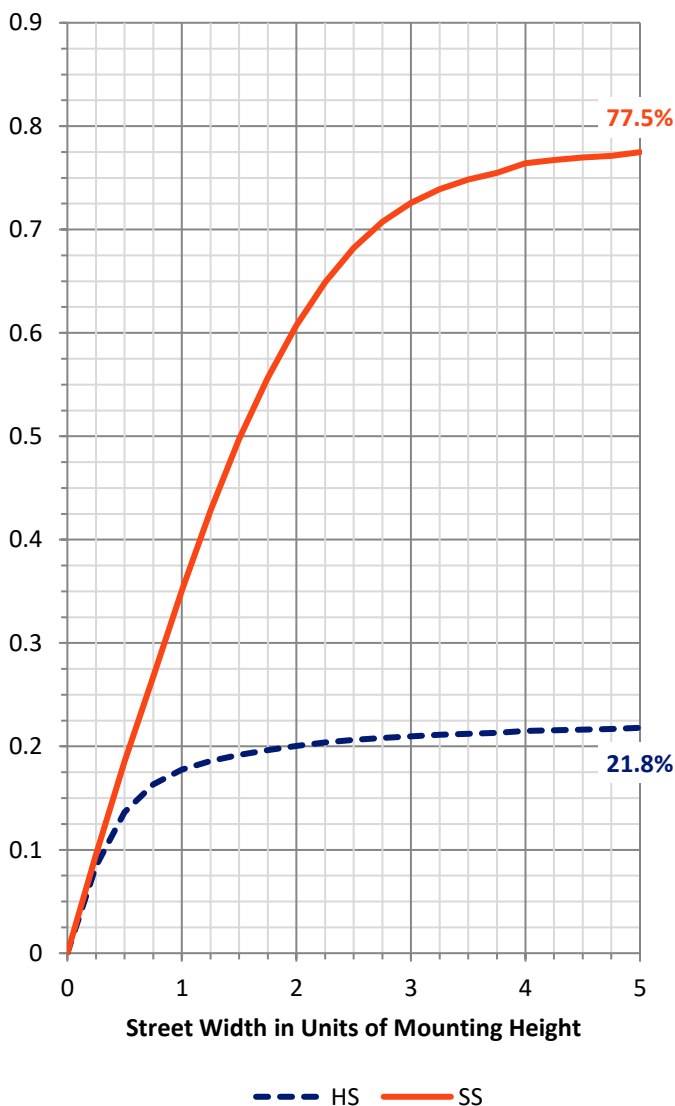
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7332.4	0.0	7332.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25606.5	0.0	25606.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	32938.9	0.0	32938.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.1
10°-20°	1154.9	3.5
20°-30°	1950.2	5.9
30°-40°	2698.8	8.2
40°-50°	3860.3	11.7
50°-60°	6226.3	18.9
60°-70°	9182.9	27.9
70°-80°	6668.4	20.2
80°-90°	850.0	2.6
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°	32938.9	100.0
0°-180°	32938.9	100.0

Coefficient of Utilization



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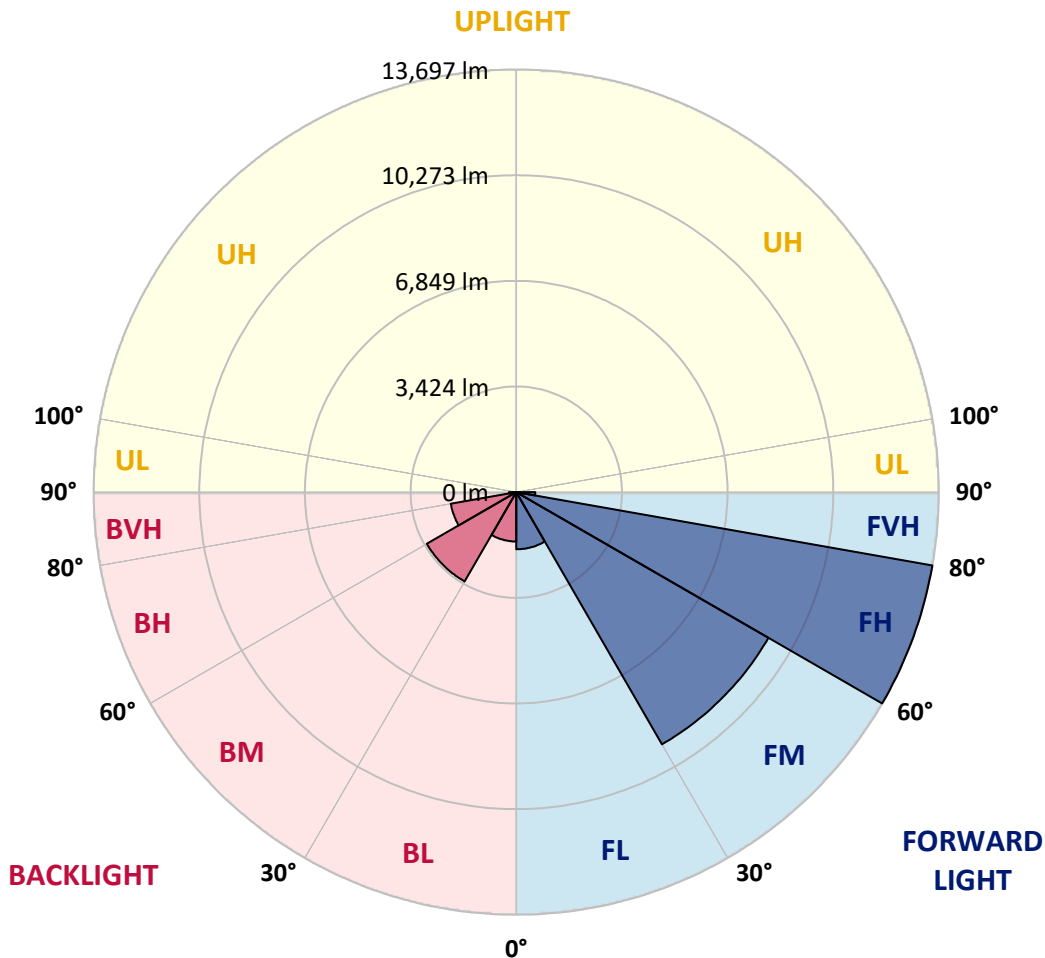
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.2	5.6			
FM (30°-60°)	9439.1	28.7			
FH (60°-80°)	13697.5	41.6			G5
FVH (80°-90°)	618.7	1.9			G4/750
BL (0°-30°)	1601.0	4.9	B3/2500		
BM (30°-60°)	3346.3	10.2	B3/5000		
BH (60°-80°)	2153.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	231.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1
2.5°	3573.3	3594.6	3573.3	3569.7	3534.2	3509.3	3530.6	3498.7	3463.1	3448.9	3417.0
5°	3900.0	3903.6	3864.5	3868.1	3793.5	3715.3	3729.5	3633.6	3530.6	3491.6	3427.6
7.5°	4233.9	4194.9	4138.0	4120.3	4003.0	3917.8	3907.1	3821.9	3662.1	3573.3	3484.5
10°	4450.6	4464.8	4372.4	4294.3	4194.9	4091.8	4088.3	3928.5	3836.1	3704.7	3591.0
12.5°	4642.4	4645.9	4567.8	4443.5	4319.2	4191.3	4209.1	4138.0	3981.7	3857.4	3743.8
15°	4791.6	4770.3	4685.0	4571.4	4439.9	4340.5	4329.8	4269.4	4138.0	4035.0	3846.8
17.5°	4834.2	4823.5	4738.3	4617.5	4489.7	4415.1	4443.5	4344.0	4290.8	4198.4	4017.3
20°	4752.5	4727.6	4713.4	4578.5	4486.1	4479.0	4454.1	4475.5	4386.7	4301.4	4170.0
22.5°	4603.3	4592.7	4585.6	4479.0	4436.4	4468.4	4511.0	4542.9	4528.7	4447.0	4297.9
25°	4450.6	4500.3	4454.1	4404.4	4464.8	4546.5	4535.8	4638.8	4638.8	4614.0	4489.7
27.5°	4557.1	4525.2	4489.7	4464.8	4486.1	4614.0	4606.9	4731.2	4777.4	4731.2	4589.1
30°	4823.5	4791.6	4688.6	4578.5	4550.0	4688.6	4724.1	4834.2	4855.5	4741.9	4621.1
32.5°	5324.4	5306.6	5143.2	4820.0	4645.9	4724.1	4741.9	4866.2	4848.4	4777.4	4727.6
35°	6066.7	6006.3	5779.0	5232.0	4848.4	4770.3	4724.1	4823.5	4891.0	4855.5	4809.3
37.5°	6880.1	6812.6	6532.0	5839.4	5214.3	4894.6	4859.1	4940.8	5018.9	5001.1	4905.2
40°	7658.0	7658.0	7405.8	6599.5	5757.7	5196.5	5203.6	5111.3	5182.3	5150.3	5168.1
42.5°	8425.2	8396.8	8293.8	7491.1	6340.2	5700.9	5587.2	5356.3	5484.2	5473.6	5498.4
45°	9203.1	9181.8	9153.4	8322.2	7174.9	6382.9	6322.5	5906.9	6024.1	5974.4	6080.9
47.5°	9824.7	9849.6	9849.6	9249.3	8066.5	7292.1	7203.4	6546.2	6770.0	6794.9	6819.7
50°	10353.9	10364.6	10353.9	10133.7	9061.0	8332.9	8151.7	7484.0	7707.7	7903.1	8130.4
52.5°	11085.6	11099.8	11050.1	10964.9	10410.8	9426.9	9224.4	8482.1	8940.3	9146.3	9554.7
55°	11987.8	11881.3	11788.9	11852.9	11707.2	10631.0	10421.4	9512.1	10201.2	10474.7	11291.6
57.5°	12154.8	12247.1	12481.5	12989.5	13199.0	11803.1	11682.4	10776.6	11625.5	11863.5	13227.5
60°	12744.4	12591.7	13167.1	14268.2	14502.6	13330.5	13206.1	12161.9	13042.8	13291.4	15014.1
62.5°	13131.6	13124.4	13976.9	15284.0	15816.8	14914.6	14662.4	13962.7	14573.6	14815.2	16960.6
65°	13017.9	13120.9	14634.0	15880.8	16914.4	16715.5	16569.8	15511.4	16317.6	16296.3	18228.6
67.5°	11980.7	12272.0	14218.4	16310.5	18548.3	18910.6	18864.4	17688.7	17734.9	17283.8	18793.4
70°	10542.2	10442.7	12460.2	15863.0	19365.2	21514.1	21503.5	19308.4	19010.0	17500.4	17173.7
72°	8098.4	7988.3	9647.1	13621.7	18935.4	22554.9	22874.5	20430.8	18995.8	16601.8	14186.5
72.5°	7352.5	7256.6	8908.3	12822.5	18459.5	22824.8	22675.6	20473.4	18846.6	16179.1	13252.3
75°	3385.0	3274.9	4450.6	7849.8	14399.6	20224.8	20732.7	19159.2	16459.7	12879.4	7938.6
77.5°	1008.8	976.8	1431.4	3168.3	8368.4	14900.4	15095.8	14456.4	11490.6	7054.2	2944.6
80°	561.2	564.8	738.8	1186.4	3679.8	8613.5	9316.8	8929.6	5636.9	2330.1	980.3
82.5°	312.6	330.3	461.8	703.3	1690.7	3953.3	4255.2	4102.5	2038.8	1094.0	536.3
85°	163.4	170.5	241.5	376.5	959.0	1250.3	1285.8	1378.2	1058.5	745.9	287.7
87.5°	63.9	63.9	88.8	156.3	355.2	387.2	348.1	422.7	607.4	483.1	142.1
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°	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1	3392.1
2.5°	3445.4	3417.0	3413.4	3367.2	3381.5	3342.4	3345.9	3338.8	3342.4	3335.3	3317.5
5°	3427.6	3406.3	3345.9	3385.0	3349.5	3399.2	3438.3	3424.1	3434.7	3431.2	3434.7
7.5°	3452.5	3424.1	3417.0	3395.7	3427.6	3448.9	3480.9	3569.7	3562.6	3573.3	3594.6
10°	3527.1	3495.1	3473.8	3505.8	3488.0	3555.5	3591.0	3637.2	3718.9	3722.4	3679.8
12.5°	3672.7	3651.4	3608.8	3615.9	3676.3	3697.6	3718.9	3747.3	3800.6	3789.9	3829.0
15°	3839.7	3793.5	3768.6	3761.5	3775.7	3800.6	3797.0	3825.4	3853.9	3878.7	3868.1
17.5°	3960.4	3900.0	3907.1	3942.7	3939.1	3932.0	3885.8	3871.6	3885.8	3900.0	3892.9
20°	4084.7	4091.8	4038.6	4006.6	3992.4	3921.4	3885.8	3843.2	3800.6	3821.9	3853.9
22.5°	4241.0	4209.1	4130.9	4035.0	3964.0	3921.4	3811.2	3736.6	3736.6	3758.0	3747.3
25°	4418.6	4351.1	4216.2	4042.1	3953.3	3772.2	3694.0	3683.4	3655.0	3686.9	3701.1
27.5°	4557.1	4496.8	4312.1	4017.3	3772.2	3626.5	3580.4	3566.2	3612.3	3615.9	3672.7
30°	4614.0	4596.2	4326.3	3953.3	3587.5	3353.0	3324.6	3388.6	3438.3	3512.9	3516.4
32.5°	4688.6	4695.7	4347.6	3804.1	3345.9	3111.5	3068.9	3147.0	3289.1	3349.5	3395.7
35°	4812.9	4848.4	4329.8	3619.4	3090.2	2866.4	2859.3	2880.6	3019.2	3125.7	3186.1
37.5°	5029.6	5022.5	4326.3	3399.2	2887.7	2653.3	2596.5	2603.6	2695.9	2784.7	2774.1
40°	5320.8	5292.4	4315.6	3111.5	2624.9	2472.2	2376.3	2340.7	2333.6	2308.8	2315.9
42.5°	5718.6	5661.8	4312.1	2820.2	2386.9	2223.5	2156.0	2063.7	1996.2	1868.3	1875.4
45°	6272.7	6173.3	4219.7	2546.7	2152.5	2017.5	1914.5	1847.0	1701.4	1541.5	1541.5
47.5°	7128.8	6805.5	4223.3	2244.8	1925.2	1815.0	1744.0	1626.8	1470.5	1342.6	1328.4
50°	8389.7	7650.9	4102.5	2006.9	1740.5	1665.9	1591.3	1456.3	1307.1	1218.3	1229.0
52.5°	10016.5	8911.8	4098.9	1793.7	1594.8	1541.5	1459.9	1339.1	1229.0	1172.1	1150.8
55°	11955.9	10581.3	4226.8	1619.7	1445.6	1417.2	1381.7	1282.3	1175.7	1126.0	1122.4
57.5°	13941.4	12211.6	4432.8	1495.4	1317.8	1339.1	1314.2	1236.1	1150.8	1094.0	1086.9
60°	15706.7	13504.5	4017.3	1346.2	1204.1	1250.3	1285.8	1218.3	1172.1	1168.6	1143.7
62.5°	17038.7	14058.6	3054.7	1232.5	1143.7	1229.0	1324.9	1367.5	1346.2	1374.6	1378.2
65°	17525.3	13724.7	2102.8	1172.1	1097.6	1278.7	1491.8	1477.6	1353.3	1300.0	1328.4
67.5°	16843.3	12371.4	1559.3	1101.1	1065.6	1381.7	1587.7	1410.1	1221.9	1214.8	1193.5
70°	14484.8	10485.4	1271.6	1026.5	1012.3	1324.9	1545.1	1307.1	1150.8	1104.7	1083.3
72°	11540.3	8165.9	1115.3	973.2	927.1	1182.8	1445.6	1225.4	1090.4	1033.6	1008.8
72.5°	10535.1	7569.2	1094.0	948.4	909.3	1150.8	1395.9	1200.6	1076.2	1026.5	987.4
75°	5779.0	3875.2	962.6	870.2	767.2	994.5	1292.9	1126.0	1015.9	944.8	937.7
77.5°	2148.9	1502.5	831.2	770.8	664.2	859.6	1175.7	1069.1	923.5	834.7	816.9
80°	824.1	792.1	678.4	650.0	557.7	753.0	1083.3	959.0	785.0	696.2	667.8
82.5°	500.8	461.8	515.0	507.9	426.2	685.5	1019.4	898.6	696.2	564.8	547.0
85°	273.5	273.5	358.7	344.5	298.4	547.0	770.8	596.7	440.4	362.3	369.4
87.5°	120.8	142.1	191.8	181.1	163.4	309.0	376.5	316.1	220.2	149.2	159.8
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)