

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: P478571

Luminaire Tested: **IFLD-L-SA7A-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478571
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

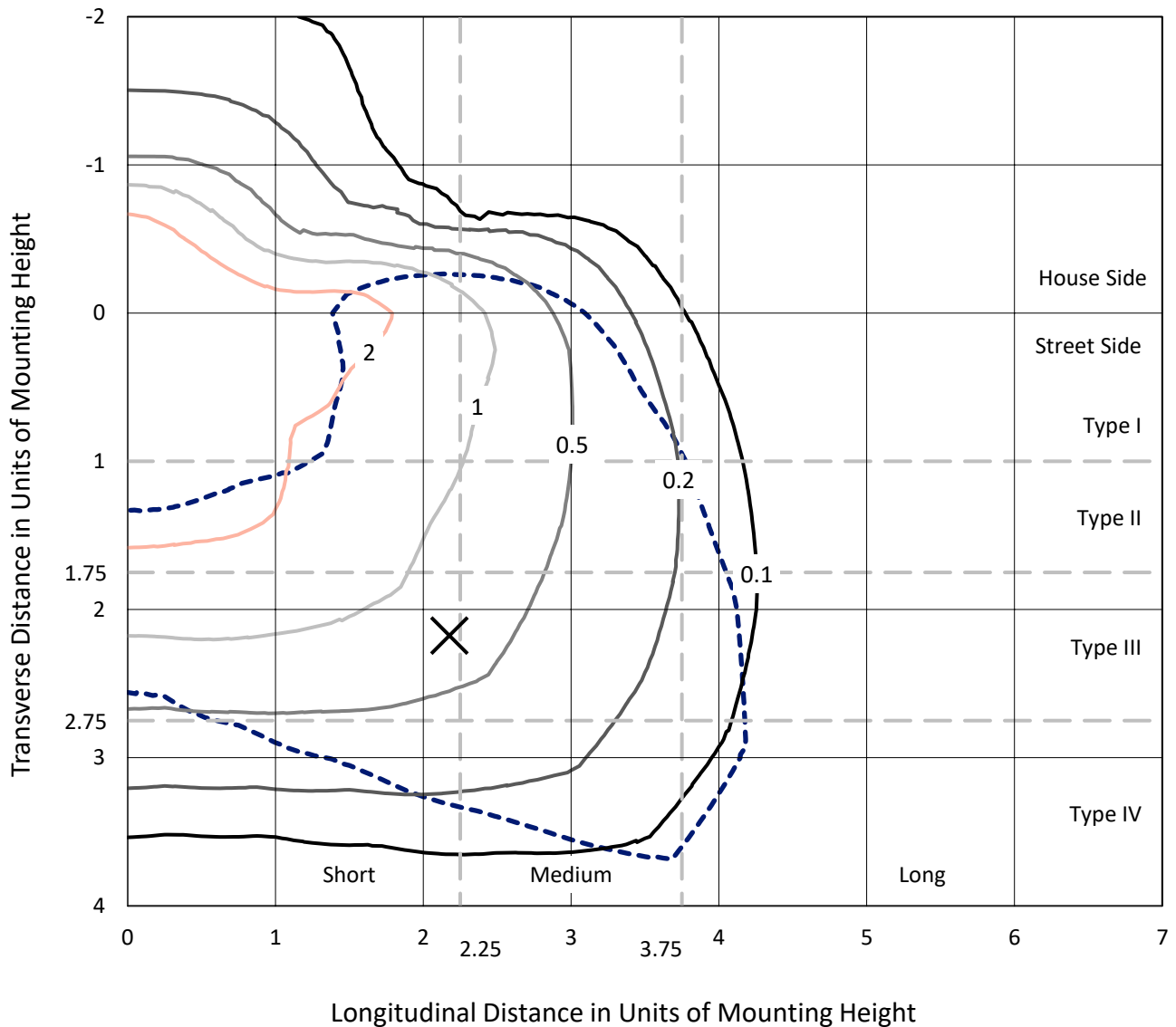
Lumens per Lamp: N/A
Luminaire Lumens: 31637.9 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

REPORT NUMBER: P478571
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

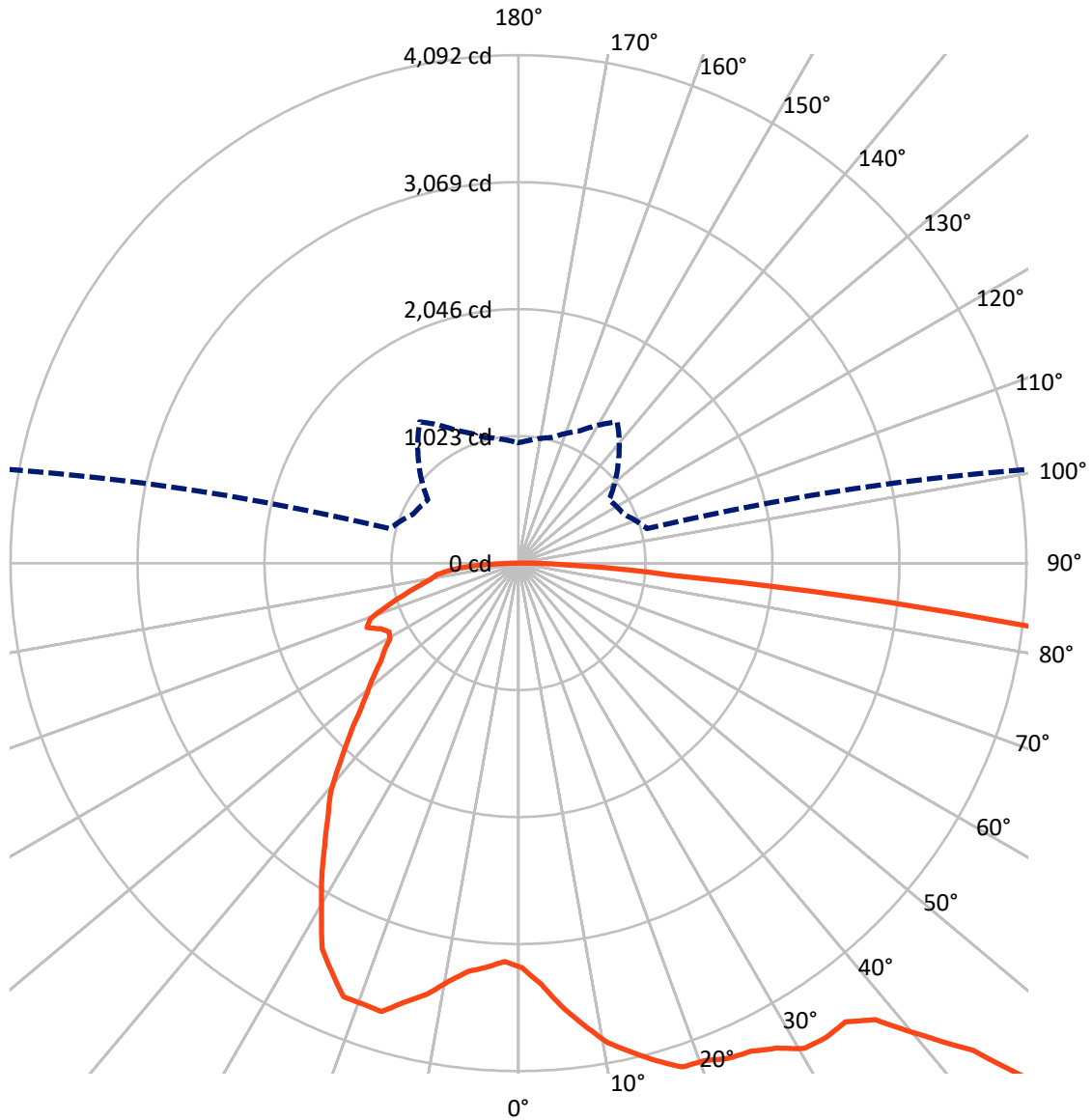
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478571
CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478571
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

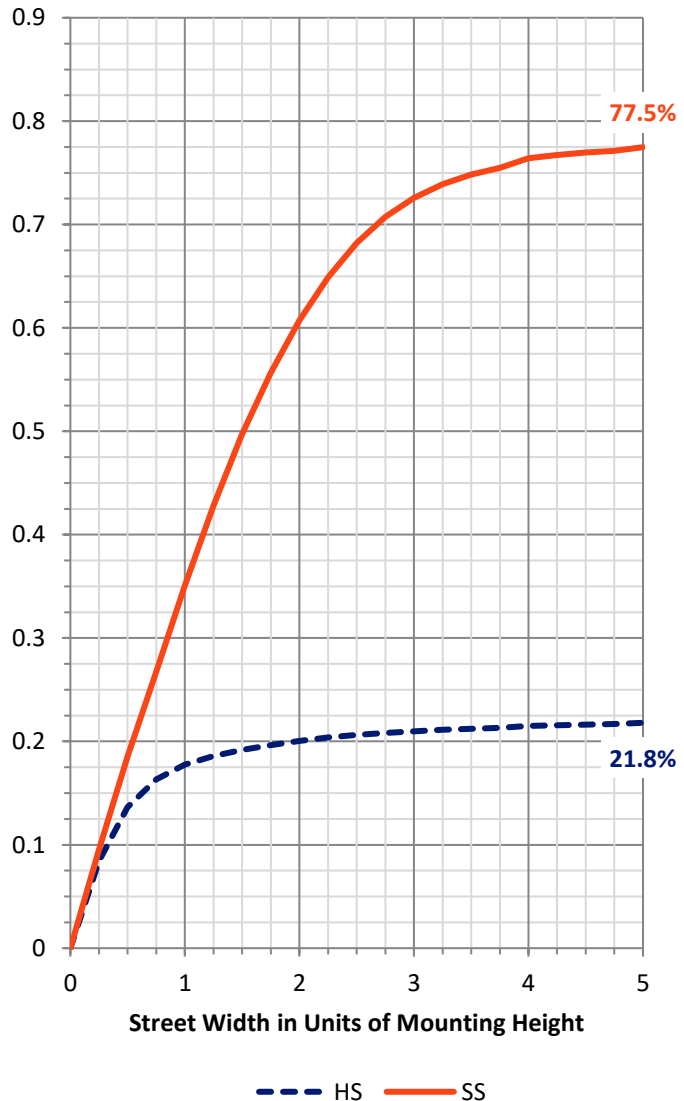
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7042.8	0.0	7042.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24595.1	0.0	24595.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	31637.9	0.0	31637.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	1.1
10°-20°	1109.2	3.5
20°-30°	1873.2	5.9
30°-40°	2592.2	8.2
40°-50°	3707.9	11.7
50°-60°	5980.4	18.9
60°-70°	8820.2	27.9
70°-80°	6405.0	20.2
80°-90°	816.5	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°	31637.9	100.0
0°-180°	31637.9	100.0

Coefficient of Utilization



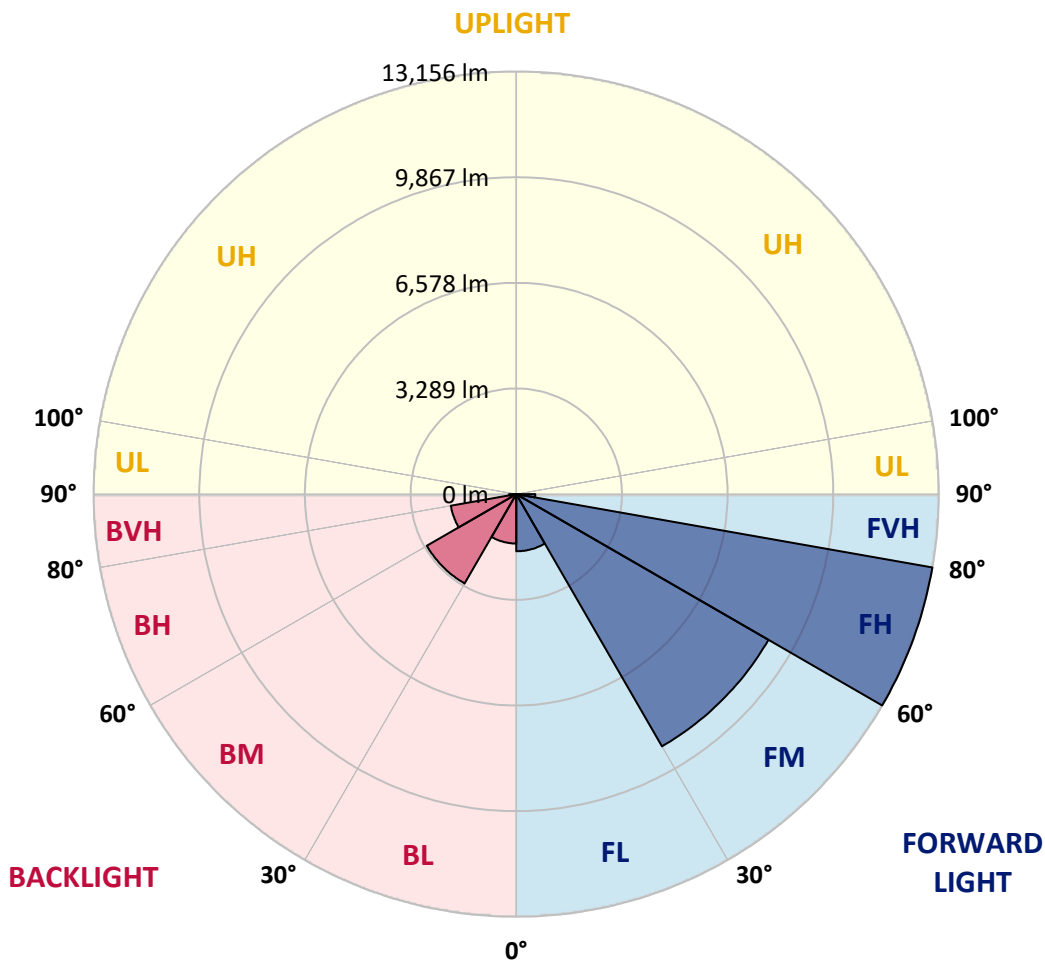
REPORT NUMBER: P478571
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.1	5.6			
FM (30°-60°)	9066.3	28.7			
FH (60°-80°)	13156.5	41.6			G5
FVH (80°-90°)	594.3	1.9			G4/750
BL (0°-30°)	1537.8	4.9	B3/2500		
BM (30°-60°)	3214.1	10.2	B3/5000		
BH (60°-80°)	2068.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	222.2	0.7			G2/225
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





REPORT NUMBER: P478571

CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1
2.5°	3432.1	3452.6	3432.1	3428.7	3394.6	3370.7	3391.2	3360.5	3326.4	3312.7	3282.0
5°	3746.0	3749.4	3711.9	3715.3	3643.7	3568.6	3582.2	3490.1	3391.2	3353.7	3292.3
7.5°	4066.7	4029.2	3974.6	3957.5	3844.9	3763.1	3752.8	3670.9	3517.4	3432.1	3346.8
10°	4274.8	4288.5	4199.8	4124.7	4029.2	3930.2	3926.8	3773.3	3684.6	3558.4	3449.2
12.5°	4459.0	4462.5	4387.4	4268.0	4148.6	4025.8	4042.8	3974.6	3824.5	3705.1	3595.9
15°	4602.3	4581.9	4500.0	4390.8	4264.6	4169.0	4158.8	4100.8	3974.6	3875.6	3694.8
17.5°	4643.3	4633.0	4551.2	4435.2	4312.3	4240.7	4268.0	4172.5	4121.3	4032.6	3858.6
20°	4564.8	4540.9	4527.3	4397.6	4308.9	4302.1	4278.2	4298.7	4213.4	4131.5	4005.3
22.5°	4421.5	4411.3	4404.5	4302.1	4261.2	4291.9	4332.8	4363.5	4349.9	4271.4	4128.1
25°	4274.8	4322.6	4278.2	4230.5	4288.5	4366.9	4356.7	4455.6	4455.6	4431.7	4312.3
27.5°	4377.2	4346.5	4312.3	4288.5	4308.9	4431.7	4424.9	4544.3	4588.7	4544.3	4407.9
30°	4633.0	4602.3	4503.4	4397.6	4370.3	4503.4	4537.5	4643.3	4663.7	4554.6	4438.6
32.5°	5114.1	5097.0	4940.1	4629.6	4462.5	4537.5	4554.6	4674.0	4656.9	4588.7	4540.9
35°	5827.1	5769.1	5550.8	5025.4	4656.9	4581.9	4537.5	4633.0	4697.9	4663.7	4619.4
37.5°	6608.4	6543.6	6274.0	5608.8	5008.3	4701.3	4667.1	4745.6	4820.7	4803.6	4711.5
40°	7355.5	7355.5	7113.3	6338.9	5530.3	4991.3	4998.1	4909.4	4977.6	4946.9	4964.0
42.5°	8092.5	8065.2	7966.2	7195.2	6089.8	5475.7	5366.5	5144.8	5267.6	5257.4	5281.2
45°	8839.6	8819.1	8791.8	7993.5	6891.6	6130.8	6072.8	5673.6	5786.2	5738.4	5840.8
47.5°	9436.6	9460.5	9460.5	8884.0	7747.9	7004.1	6918.8	6287.7	6502.6	6526.5	6550.4
50°	9945.0	9955.2	9945.0	9733.5	8703.1	8003.8	7829.8	7188.4	7403.3	7590.9	7809.3
52.5°	10647.8	10661.4	10613.7	10531.8	9999.6	9054.5	8860.1	8147.0	8587.1	8785.0	9177.4
55°	11514.3	11412.0	11323.3	11384.7	11244.8	10211.1	10009.8	9136.4	9798.3	10061.0	10845.7
57.5°	11674.7	11763.4	11988.6	12476.4	12677.7	11336.9	11220.9	10351.0	11166.4	11394.9	12705.0
60°	12241.0	12094.3	12647.0	13704.6	13929.8	12804.0	12684.5	11681.5	12527.6	12766.4	14421.1
62.5°	12612.9	12606.1	13424.9	14680.4	15192.1	14325.6	14083.3	13411.2	13998.0	14230.0	16290.7
65°	12503.7	12602.7	14056.0	15253.5	16246.3	16055.3	15915.4	14898.7	15673.2	15652.7	17508.6
67.5°	11507.5	11787.3	13656.9	15666.3	17815.7	18163.7	18119.3	16990.1	17034.4	16601.1	18051.1
70°	10125.8	10030.3	11968.1	15236.5	18600.4	20664.4	20654.2	18545.8	18259.2	16809.2	16495.4
72°	7778.6	7672.8	9266.1	13083.7	18187.6	21664.0	21971.1	19623.9	18245.6	15946.1	13626.2
72.5°	7062.1	6970.0	8556.4	12316.1	17730.4	21923.3	21780.0	19664.8	18102.3	15540.1	12728.9
75°	3251.3	3145.5	4274.8	7539.8	13830.9	19426.0	19913.9	18402.5	15809.6	12370.7	7625.1
77.5°	968.9	938.2	1374.9	3043.2	8037.9	14311.9	14499.6	13885.5	11036.7	6775.6	2828.3
80°	539.0	542.5	709.6	1139.5	3534.5	8273.3	8948.8	8576.9	5414.3	2238.0	941.6
82.5°	300.2	317.3	443.5	675.5	1623.9	3797.2	4087.2	3940.5	1958.3	1050.8	515.2
85°	156.9	163.8	232.0	361.6	921.1	1200.9	1235.0	1323.7	1016.7	716.4	276.3
87.5°	61.4	61.4	85.3	150.1	341.2	371.9	334.3	406.0	583.4	464.0	136.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478571
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1	3258.1
2.5°	3309.3	3282.0	3278.6	3234.3	3247.9	3210.4	3213.8	3207.0	3210.4	3203.5	3186.5
5°	3292.3	3271.8	3213.8	3251.3	3217.2	3265.0	3302.5	3288.8	3299.1	3295.7	3299.1
7.5°	3316.1	3288.8	3282.0	3261.5	3292.3	3312.7	3343.4	3428.7	3421.9	3432.1	3452.6
10°	3387.8	3357.1	3336.6	3367.3	3350.2	3415.1	3449.2	3493.5	3572.0	3575.4	3534.5
12.5°	3527.7	3507.2	3466.2	3473.1	3531.1	3551.5	3572.0	3599.3	3650.5	3640.2	3677.8
15°	3688.0	3643.7	3619.8	3612.9	3626.6	3650.5	3647.1	3674.4	3701.7	3725.5	3715.3
17.5°	3804.0	3746.0	3752.8	3786.9	3783.5	3776.7	3732.4	3718.7	3732.4	3746.0	3739.2
20°	3923.4	3930.2	3879.1	3848.4	3834.7	3766.5	3732.4	3691.4	3650.5	3670.9	3701.7
22.5°	4073.5	4042.8	3967.8	3875.6	3807.4	3766.5	3660.7	3589.1	3589.1	3609.5	3599.3
25°	4244.1	4179.3	4049.6	3882.5	3797.2	3623.2	3548.1	3537.9	3510.6	3541.3	3554.9
27.5°	4377.2	4319.2	4141.8	3858.6	3623.2	3483.3	3439.0	3425.3	3469.7	3473.1	3527.7
30°	4431.7	4414.7	4155.4	3797.2	3445.8	3220.6	3193.3	3254.7	3302.5	3374.1	3377.5
32.5°	4503.4	4510.2	4175.9	3653.9	3213.8	2988.6	2947.7	3022.7	3159.2	3217.2	3261.5
35°	4622.8	4656.9	4158.8	3476.5	2968.1	2753.2	2746.4	2766.9	2899.9	3002.3	3060.3
37.5°	4830.9	4824.1	4155.4	3265.0	2773.7	2548.5	2493.9	2500.7	2589.4	2674.7	2664.5
40°	5110.7	5083.4	4145.2	2988.6	2521.2	2374.5	2282.4	2248.3	2241.5	2217.6	2224.4
42.5°	5492.8	5438.2	4141.8	2708.9	2292.6	2135.7	2070.9	1982.2	1917.4	1794.5	1801.4
45°	6025.0	5929.5	4053.1	2446.2	2067.5	1937.8	1838.9	1774.1	1634.2	1480.7	1480.7
47.5°	6847.2	6536.7	4056.5	2156.2	1849.1	1743.4	1675.1	1562.5	1412.4	1289.6	1276.0
50°	8058.3	7348.7	3940.5	1927.6	1671.7	1600.1	1528.4	1398.8	1255.5	1170.2	1180.4
52.5°	9620.9	8559.9	3937.1	1722.9	1531.8	1480.7	1402.2	1286.2	1180.4	1125.8	1105.4
55°	11483.6	10163.3	4059.9	1555.7	1388.5	1361.3	1327.1	1231.6	1129.3	1081.5	1078.1
57.5°	13390.8	11729.3	4257.8	1436.3	1265.7	1286.2	1262.3	1187.3	1105.4	1050.8	1044.0
60°	15086.4	12971.1	3858.6	1293.0	1156.6	1200.9	1235.0	1170.2	1125.8	1122.4	1098.6
62.5°	16365.7	13503.3	2934.0	1183.8	1098.6	1180.4	1272.5	1313.5	1293.0	1320.3	1323.7
65°	16833.1	13182.7	2019.7	1125.8	1054.2	1228.2	1432.9	1419.3	1299.8	1248.7	1276.0
67.5°	16178.1	11882.8	1497.7	1057.6	1023.5	1327.1	1525.0	1354.4	1173.6	1166.8	1146.3
70°	13912.7	10071.2	1221.4	986.0	972.3	1272.5	1484.1	1255.5	1105.4	1061.0	1040.6
72°	11084.5	7843.4	1071.3	934.8	890.4	1136.1	1388.5	1177.0	1047.4	992.8	968.9
72.5°	10119.0	7270.2	1050.8	910.9	873.4	1105.4	1340.8	1153.1	1033.7	986.0	948.4
75°	5550.8	3722.1	924.6	835.9	736.9	955.3	1241.8	1081.5	975.7	907.5	900.7
77.5°	2064.1	1443.1	798.3	740.3	638.0	825.6	1129.3	1026.9	887.0	801.7	784.7
80°	791.5	760.8	651.6	624.3	535.6	723.3	1040.6	921.1	754.0	668.7	641.4
82.5°	481.0	443.5	494.7	487.9	409.4	658.5	979.1	863.1	668.7	542.5	525.4
85°	262.7	262.7	344.6	330.9	286.6	525.4	740.3	573.2	423.0	348.0	354.8
87.5°	116.0	136.5	184.2	174.0	156.9	296.8	361.6	303.6	211.5	143.3	153.5
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)