

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: P478569

Luminaire Tested: **IFLD-M-SA4D-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478569
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

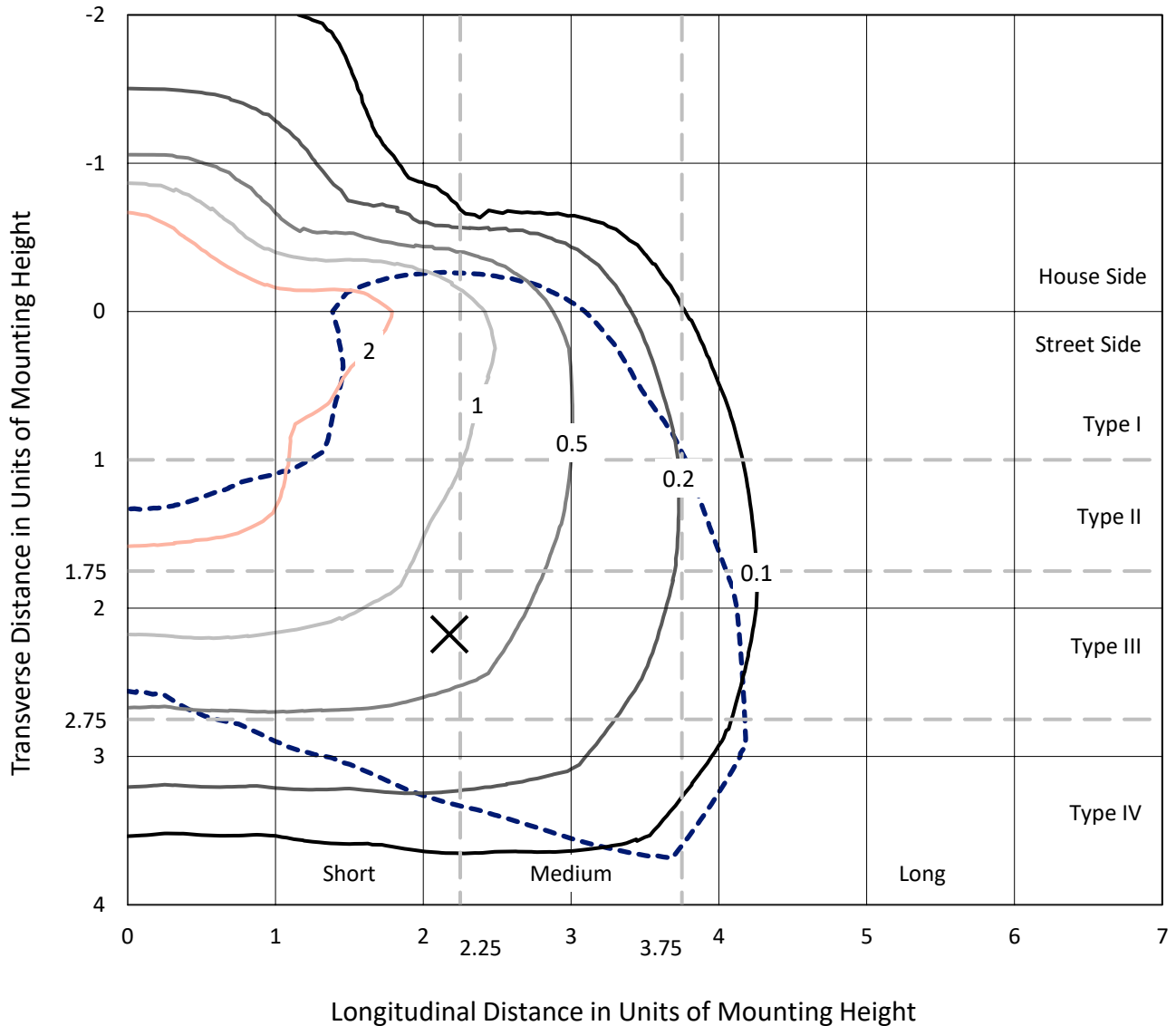
Lumens per Lamp: N/A
Luminaire Lumens: 31621.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
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

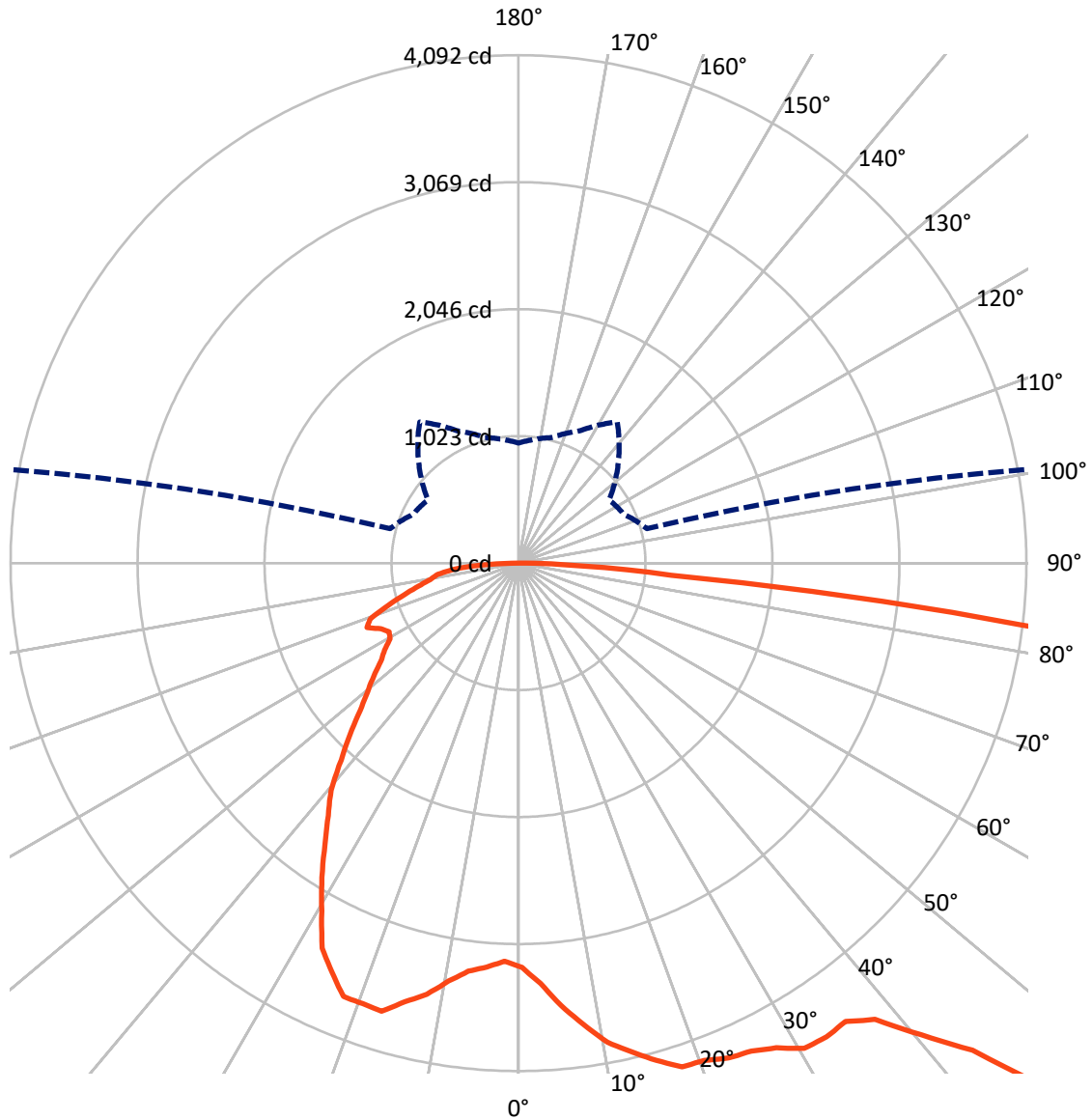
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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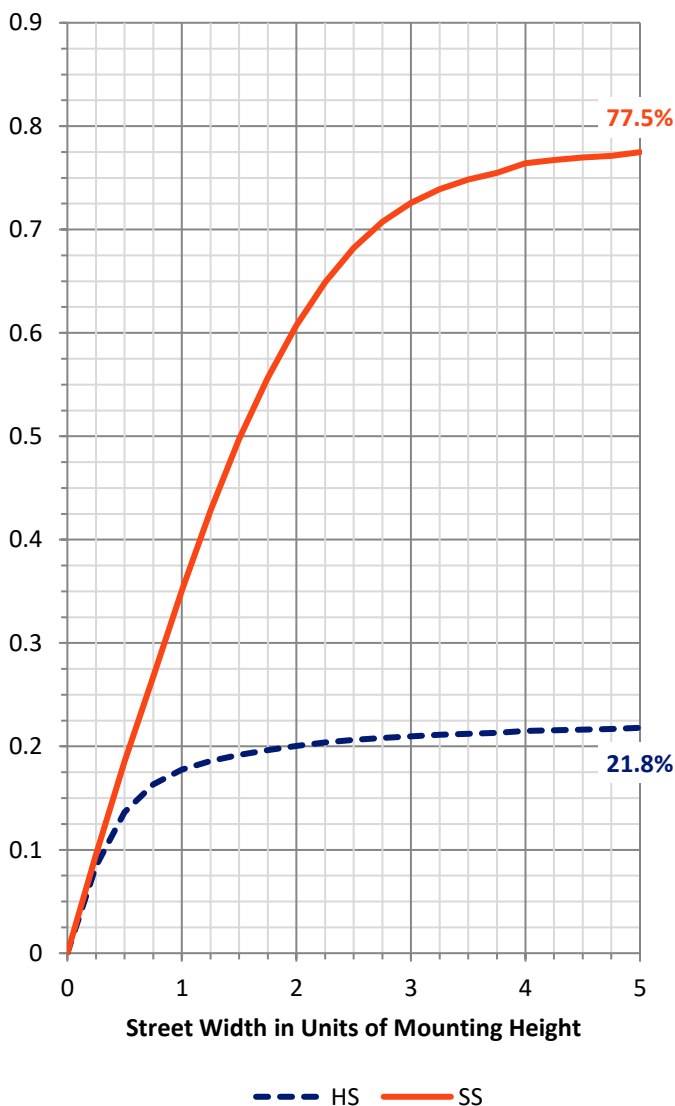
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7039.1	0.0	7039.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24582.1	0.0	24582.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	31621.2	0.0	31621.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	1.1
10°-20°	1108.6	3.5
20°-30°	1872.2	5.9
30°-40°	2590.8	8.2
40°-50°	3705.9	11.7
50°-60°	5977.2	18.9
60°-70°	8815.5	27.9
70°-80°	6401.6	20.2
80°-90°	816.0	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°	31621.2	100.0
0°-180°	31621.2	100.0

Coefficient of Utilization



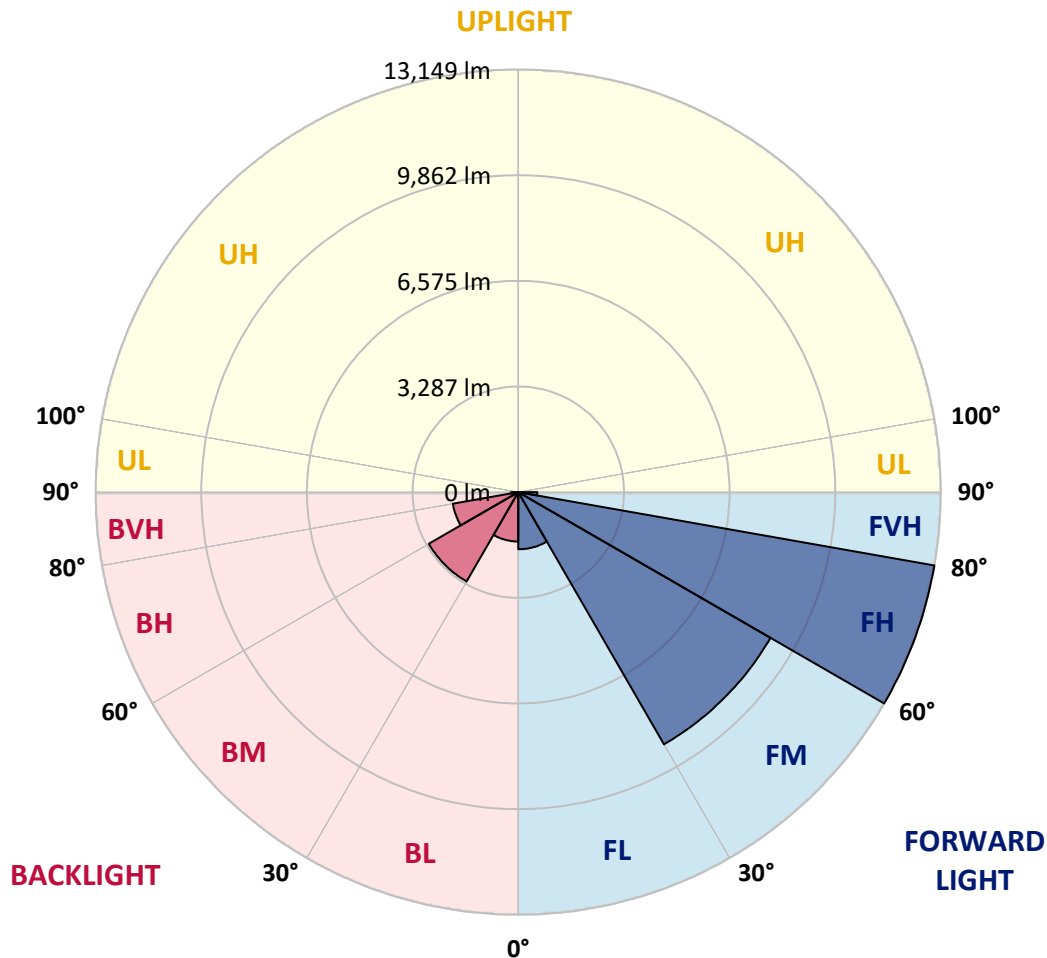
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.1	5.6			
FM (30°-60°)	9061.5	28.7			
FH (60°-80°)	13149.5	41.6			G5
FVH (80°-90°)	594.0	1.9			G4/750
BL (0°-30°)	1536.9	4.9	B3/2500		
BM (30°-60°)	3212.4	10.2	B3/5000		
BH (60°-80°)	2067.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	222.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4
2.5°	3430.3	3450.8	3430.3	3426.9	3392.8	3368.9	3389.4	3358.7	3324.6	3311.0	3280.3
5°	3744.0	3747.4	3709.9	3713.3	3641.7	3566.7	3580.3	3488.3	3389.4	3351.9	3290.5
7.5°	4064.5	4027.0	3972.5	3955.4	3842.9	3761.1	3750.8	3669.0	3515.6	3430.3	3345.1
10°	4272.5	4286.2	4197.5	4122.5	4027.0	3928.1	3924.7	3771.3	3682.6	3556.5	3447.4
12.5°	4456.7	4460.1	4385.1	4265.7	4146.4	4023.6	4040.7	3972.5	3822.4	3703.1	3594.0
15°	4599.9	4579.4	4497.6	4388.5	4262.3	4166.8	4156.6	4098.6	3972.5	3873.6	3692.9
17.5°	4640.8	4630.6	4548.7	4432.8	4310.1	4238.4	4265.7	4170.2	4119.1	4030.4	3856.5
20°	4562.4	4538.5	4524.9	4395.3	4306.6	4299.8	4276.0	4296.4	4211.2	4129.3	4003.2
22.5°	4419.2	4408.9	4402.1	4299.8	4258.9	4289.6	4330.5	4361.2	4347.6	4269.1	4125.9
25°	4272.5	4320.3	4276.0	4228.2	4286.2	4364.6	4354.4	4453.3	4453.3	4429.4	4310.1
27.5°	4374.8	4344.1	4310.1	4286.2	4306.6	4429.4	4422.6	4541.9	4586.2	4541.9	4405.5
30°	4630.6	4599.9	4501.0	4395.3	4368.0	4501.0	4535.1	4640.8	4661.3	4552.2	4436.2
32.5°	5111.4	5094.3	4937.5	4627.2	4460.1	4535.1	4552.2	4671.5	4654.4	4586.2	4538.5
35°	5824.0	5766.1	5547.8	5022.7	4654.4	4579.4	4535.1	4630.6	4695.4	4661.3	4616.9
37.5°	6604.9	6540.1	6270.7	5605.8	5005.7	4698.8	4664.7	4743.1	4818.1	4801.1	4709.0
40°	7351.6	7351.6	7109.5	6335.5	5527.4	4988.6	4995.4	4906.8	4975.0	4944.3	4961.3
42.5°	8088.2	8060.9	7962.0	7191.4	6086.6	5472.8	5363.7	5142.1	5264.8	5254.6	5278.4
45°	8834.9	8814.5	8787.2	7989.3	6887.9	6127.5	6069.5	5670.6	5783.1	5735.4	5837.7
47.5°	9431.6	9455.5	9455.5	8879.3	7743.8	7000.4	6915.2	6284.4	6499.2	6523.0	6546.9
50°	9939.7	9949.9	9939.7	9728.3	8698.5	7999.5	7825.6	7184.6	7399.4	7586.9	7805.1
52.5°	10642.1	10655.8	10608.0	10526.2	9994.3	9049.7	8855.4	8142.7	8582.6	8780.4	9172.5
55°	11508.2	11405.9	11317.3	11378.7	11238.9	10205.7	10004.5	9131.6	9793.1	10055.6	10839.9
57.5°	11668.5	11757.2	11982.2	12469.8	12671.0	11330.9	11215.0	10345.5	11160.4	11388.9	12698.3
60°	12234.5	12087.9	12640.3	13697.4	13922.4	12797.2	12677.8	11675.3	12521.0	12759.7	14413.4
62.5°	12606.2	12599.4	13417.8	14672.6	15184.1	14318.0	14075.9	13404.1	13990.6	14222.5	16282.0
65°	12497.1	12596.0	14048.6	15245.4	16237.7	16046.8	15907.0	14890.8	15664.9	15644.4	17499.4
67.5°	11501.4	11781.0	13649.6	15658.0	17806.2	18154.0	18109.7	16981.1	17025.4	16592.3	18041.5
70°	10120.4	10025.0	11961.8	15228.4	18590.5	20653.5	20643.2	18535.9	18249.5	16800.3	16486.6
72°	7774.5	7668.8	9261.2	13076.8	18177.9	21652.6	21959.4	19613.5	18235.9	15937.6	13618.9
72.5°	7058.4	6966.3	8551.9	12309.6	17721.0	21911.7	21768.5	19654.4	18092.7	15531.9	12722.2
75°	3249.6	3143.9	4272.5	7535.8	13823.5	19415.7	19903.3	18392.7	15801.2	12364.1	7621.0
77.5°	968.4	937.7	1374.2	3041.6	8033.6	14304.3	14491.9	13878.1	11030.9	6772.0	2826.8
80°	538.8	542.2	709.2	1138.9	3532.6	8268.9	8944.0	8572.4	5411.4	2236.9	941.1
82.5°	300.1	317.1	443.3	675.2	1623.1	3795.2	4085.0	3938.4	1957.3	1050.2	514.9
85°	156.9	163.7	231.9	361.4	920.7	1200.3	1234.4	1323.0	1016.1	716.1	276.2
87.5°	61.4	61.4	85.2	150.0	341.0	371.7	334.2	405.8	583.1	463.7	136.4
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°	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4	3256.4
2.5°	3307.6	3280.3	3276.9	3232.5	3246.2	3208.7	3212.1	3205.3	3208.7	3201.8	3184.8
5°	3290.5	3270.0	3212.1	3249.6	3215.5	3263.2	3300.7	3287.1	3297.3	3293.9	3297.3
7.5°	3314.4	3287.1	3280.3	3259.8	3290.5	3311.0	3341.7	3426.9	3420.1	3430.3	3450.8
10°	3386.0	3355.3	3334.8	3365.5	3348.5	3413.3	3447.4	3491.7	3570.1	3573.5	3532.6
12.5°	3525.8	3505.3	3464.4	3471.2	3529.2	3549.7	3570.1	3597.4	3648.5	3638.3	3675.8
15°	3686.0	3641.7	3617.9	3611.0	3624.7	3648.5	3645.1	3672.4	3699.7	3723.6	3713.3
17.5°	3802.0	3744.0	3750.8	3784.9	3781.5	3774.7	3730.4	3716.7	3730.4	3744.0	3737.2
20°	3921.3	3928.1	3877.0	3846.3	3832.7	3764.5	3730.4	3689.5	3648.5	3669.0	3699.7
22.5°	4071.4	4040.7	3965.7	3873.6	3805.4	3764.5	3658.8	3587.2	3587.2	3607.6	3597.4
25°	4241.9	4177.1	4047.5	3880.4	3795.2	3621.3	3546.2	3536.0	3508.7	3539.4	3553.1
27.5°	4374.8	4316.9	4139.6	3856.5	3621.3	3481.5	3437.1	3423.5	3467.8	3471.2	3525.8
30°	4429.4	4412.3	4153.2	3795.2	3443.9	3218.9	3191.6	3253.0	3300.7	3372.3	3375.8
32.5°	4501.0	4507.8	4173.7	3651.9	3212.1	2987.0	2946.1	3021.1	3157.5	3215.5	3259.8
35°	4620.3	4654.4	4156.6	3474.6	2966.6	2751.7	2744.9	2765.4	2898.4	3000.7	3058.6
37.5°	4828.3	4821.5	4153.2	3263.2	2772.2	2547.2	2492.6	2499.4	2588.1	2673.3	2663.1
40°	5108.0	5080.7	4143.0	2987.0	2519.9	2373.3	2281.2	2247.1	2240.3	2216.4	2223.2
42.5°	5489.9	5435.3	4139.6	2707.4	2291.4	2134.6	2069.8	1981.1	1916.3	1793.6	1800.4
45°	6021.8	5926.3	4050.9	2444.9	2066.4	1936.8	1837.9	1773.1	1633.3	1479.9	1479.9
47.5°	6843.6	6533.3	4054.3	2155.0	1848.1	1742.4	1674.2	1561.7	1411.7	1288.9	1275.3
50°	8054.1	7344.8	3938.4	1926.6	1670.8	1599.2	1527.6	1398.0	1254.8	1169.6	1179.8
52.5°	9615.8	8555.3	3935.0	1722.0	1531.0	1479.9	1401.4	1285.5	1179.8	1125.3	1104.8
55°	11477.6	10157.9	4057.7	1554.9	1387.8	1360.5	1326.4	1231.0	1128.7	1080.9	1077.5
57.5°	13383.7	11723.1	4255.5	1435.5	1265.1	1285.5	1261.6	1186.6	1104.8	1050.2	1043.4
60°	15078.4	12964.3	3856.5	1292.3	1155.9	1200.3	1234.4	1169.6	1125.3	1121.8	1098.0
62.5°	16357.1	13496.2	2932.5	1183.2	1098.0	1179.8	1271.9	1312.8	1292.3	1319.6	1323.0
65°	16824.2	13175.7	2018.6	1125.3	1053.6	1227.5	1432.1	1418.5	1299.2	1248.0	1275.3
67.5°	16169.5	11876.5	1496.9	1057.1	1023.0	1326.4	1524.2	1353.7	1173.0	1166.2	1145.7
70°	13905.4	10065.9	1220.7	985.4	971.8	1271.9	1483.3	1254.8	1104.8	1060.5	1040.0
72°	11078.6	7839.2	1070.7	934.3	890.0	1135.5	1387.8	1176.4	1046.8	992.3	968.4
72.5°	10113.6	7266.4	1050.2	910.4	872.9	1104.8	1340.1	1152.5	1033.2	985.4	947.9
75°	5547.8	3720.1	924.1	835.4	736.5	954.8	1241.2	1080.9	975.2	907.0	900.2
77.5°	2063.0	1442.4	797.9	739.9	637.6	825.2	1128.7	1026.4	886.6	801.3	784.3
80°	791.1	760.4	651.3	624.0	535.3	722.9	1040.0	920.7	753.6	668.3	641.1
82.5°	480.8	443.3	494.4	487.6	409.2	658.1	978.6	862.7	668.3	542.2	525.1
85°	262.6	262.6	344.4	330.8	286.4	525.1	739.9	572.9	422.8	347.8	354.6
87.5°	115.9	136.4	184.1	173.9	156.9	296.7	361.4	303.5	211.4	143.2	153.4
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)