

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: P479388

Luminaire Tested: **IFLD-M-SA4D-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

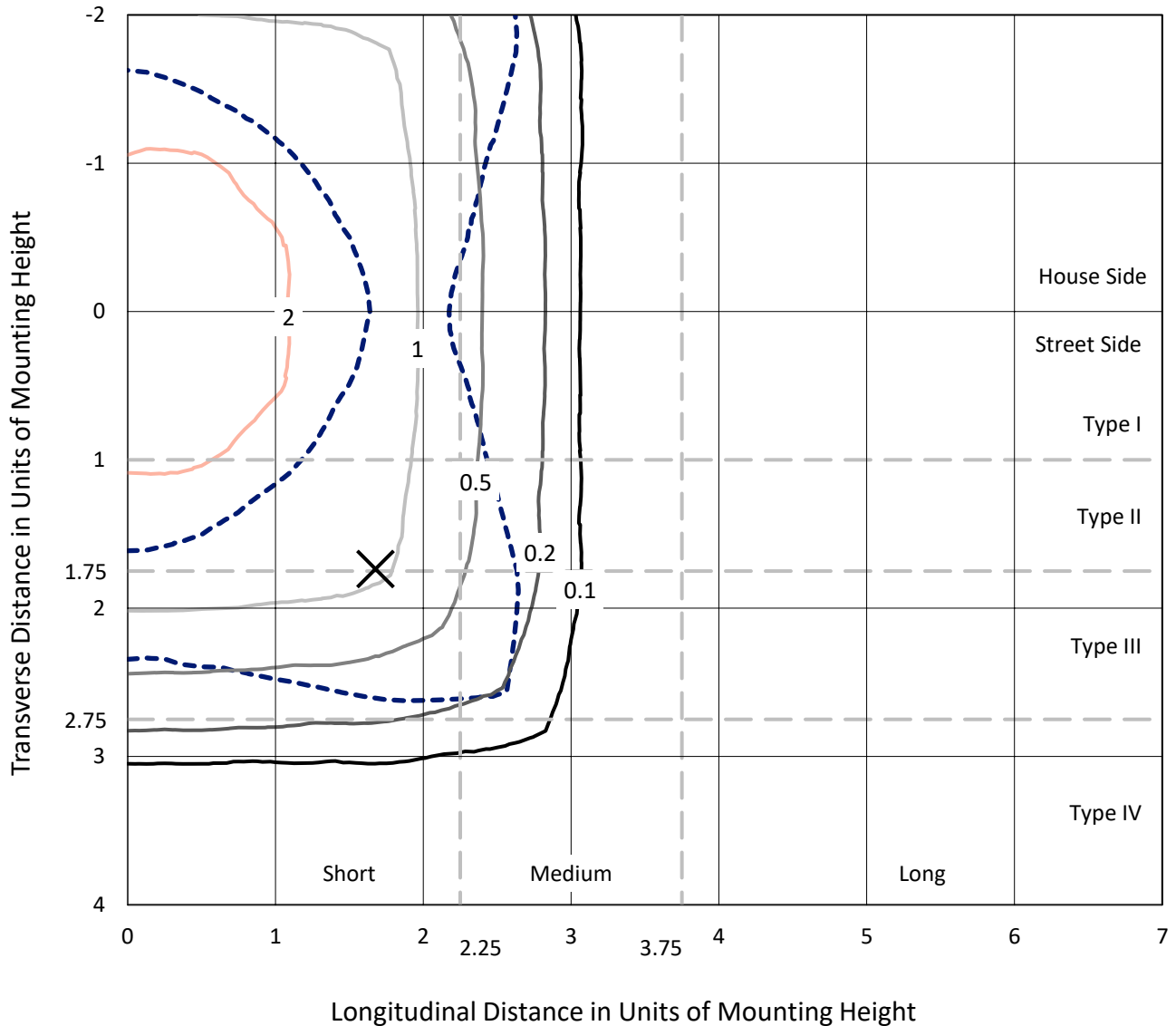
Lumens per Lamp: N/A
Luminaire Lumens: 32301.4 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

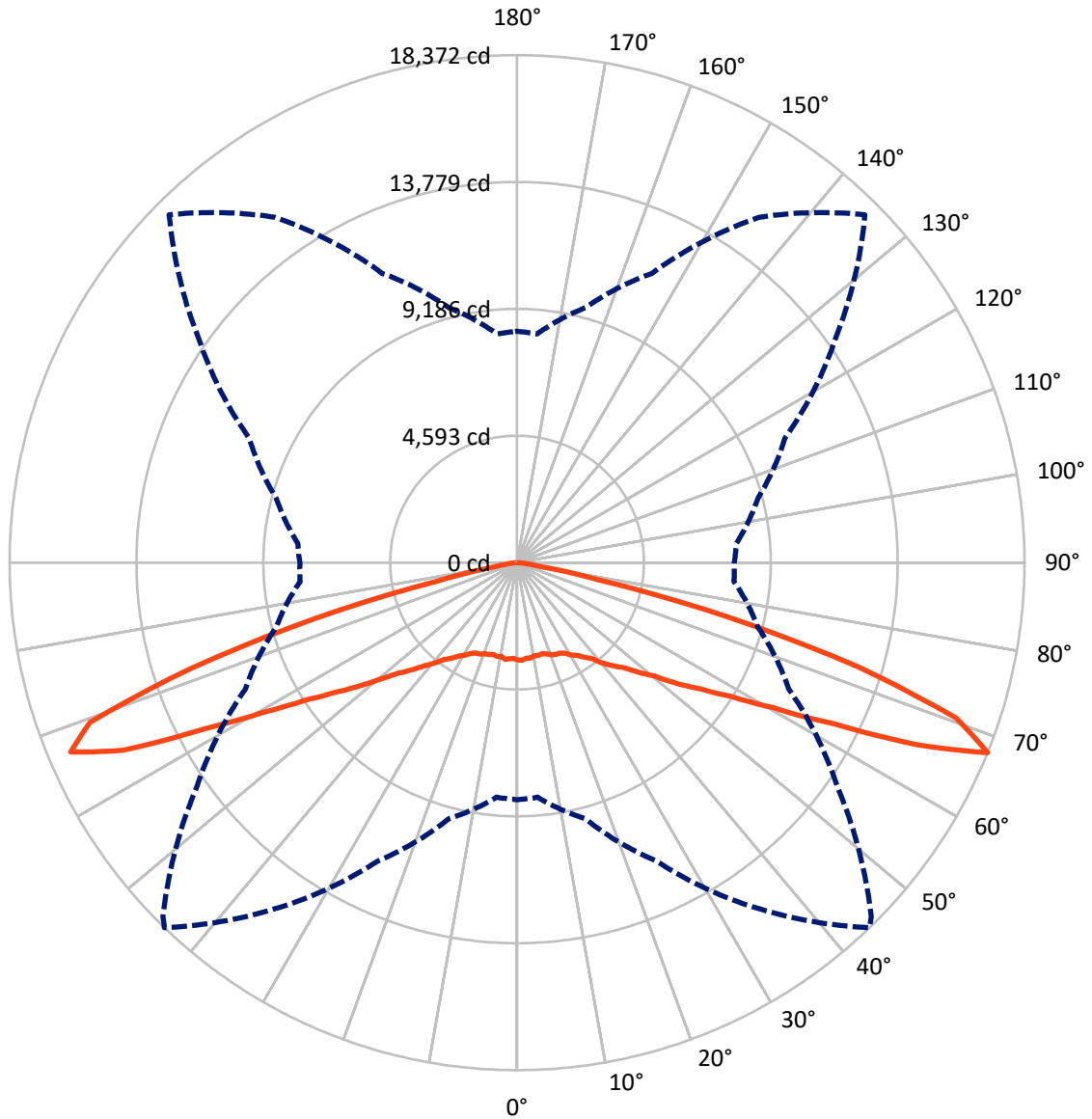
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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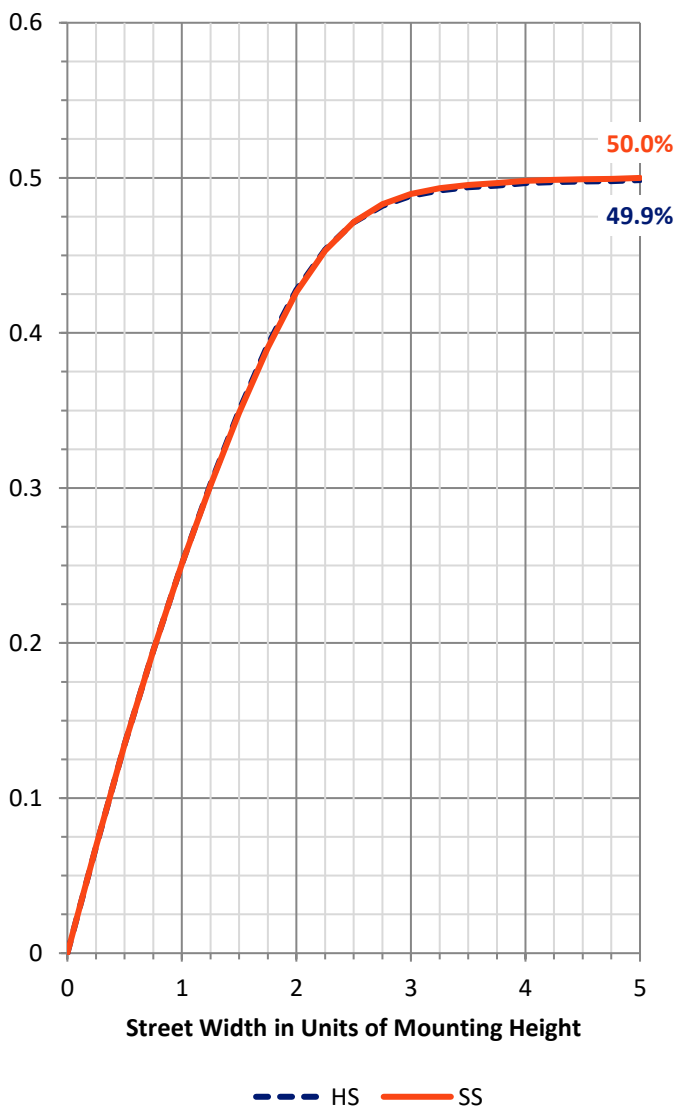
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16109.3	0.0	16109.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16192.1	0.0	16192.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	32301.4	0.0	32301.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	1.0
10°-20°	975.5	3.0
20°-30°	1658.8	5.1
30°-40°	2630.1	8.1
40°-50°	4288.6	13.3
50°-60°	7324.4	22.7
60°-70°	11140.3	34.5
70°-80°	3755.0	11.6
80°-90°	195.0	0.6
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°	32301.4	100.0
0°-180°	32301.4	100.0

Coefficient of Utilization



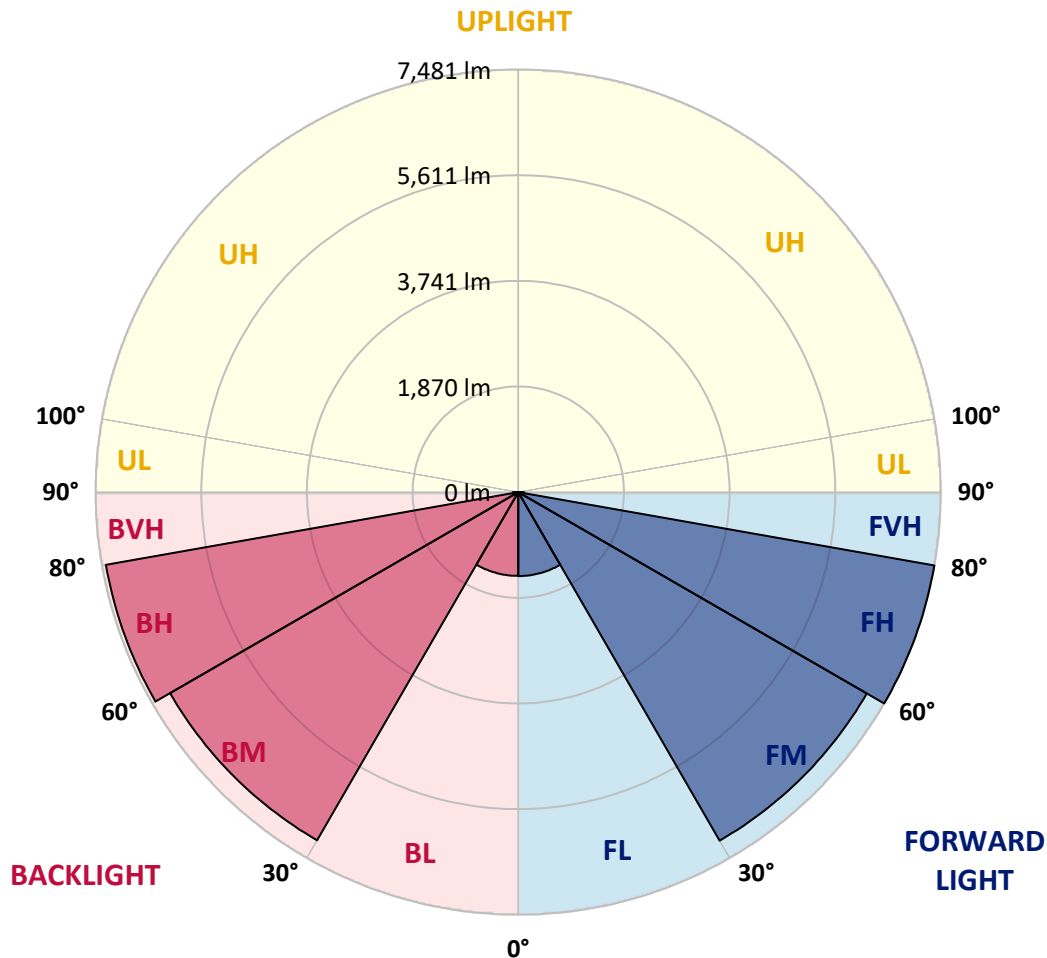
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.6	4.6			
FM (30°-60°)	7125.4	22.1			
FH (60°-80°)	7481.3	23.2			G3/7500
FVH (80°-90°)	99.7	0.3			G1/100
BL (0°-30°)	1482.5	4.6	B3/2500		
BM (30°-60°)	7117.7	22.0	B4/8500		
BH (60°-80°)	7413.9	23.0	B5		G3/7500
BVH (80°-90°)	95.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4
2.5°	3447.3	3487.8	3517.3	3513.6	3524.7	3535.7	3521.0	3543.1	3528.4	3554.2	3568.9
5°	3513.6	3502.6	3506.3	3484.1	3535.7	3476.8	3476.8	3506.3	3543.1	3498.9	3524.7
7.5°	3473.1	3465.7	3447.3	3480.4	3491.5	3491.5	3521.0	3465.7	3528.4	3543.1	3546.8
10°	3428.8	3388.3	3443.6	3476.8	3484.1	3425.1	3450.9	3465.7	3447.3	3465.7	3476.8
12.5°	3392.0	3414.1	3414.1	3414.1	3403.0	3443.6	3469.4	3465.7	3428.8	3462.0	3403.0
15°	3388.3	3377.2	3410.4	3439.9	3421.5	3428.8	3439.9	3473.1	3403.0	3417.8	3417.8
17.5°	3384.6	3399.3	3410.4	3406.7	3469.4	3469.4	3458.3	3436.2	3491.5	3462.0	3421.5
20°	3399.3	3388.3	3417.8	3428.8	3473.1	3561.6	3528.4	3509.9	3480.4	3443.6	3443.6
22.5°	3417.8	3410.4	3450.9	3498.9	3583.7	3605.8	3602.1	3580.0	3528.4	3484.1	3476.8
25°	3484.1	3417.8	3462.0	3554.2	3583.7	3627.9	3657.4	3627.9	3557.9	3568.9	3502.6
27.5°	3583.7	3572.6	3631.6	3694.3	3668.5	3709.0	3683.2	3705.3	3709.0	3653.7	3587.4
30°	3701.7	3668.5	3705.3	3827.0	3838.1	3882.3	3838.1	3779.1	3797.5	3749.6	3716.4
32.5°	3871.3	3860.2	3930.2	4011.4	4026.1	4004.0	3981.9	4015.0	3937.6	3900.8	3841.8
35°	3981.9	4029.8	4114.6	4177.3	4225.2	4203.1	4214.1	4181.0	4199.4	4122.0	4096.2
37.5°	4310.0	4291.6	4310.0	4416.9	4428.0	4416.9	4428.0	4464.8	4439.0	4372.7	4306.3
40°	4619.7	4590.2	4634.4	4756.1	4748.7	4785.6	4711.9	4752.4	4752.4	4627.1	4601.3
42.5°	4852.0	4951.5	5003.1	5102.7	5139.6	5106.4	5091.6	5099.0	5180.1	5032.6	4977.3
45°	5331.3	5327.6	5482.4	5537.7	5434.5	5427.1	5397.6	5486.1	5541.4	5456.6	5434.5
47.5°	5851.1	5876.9	5965.4	5987.5	6050.2	5935.9	5935.9	5947.0	6142.4	5943.3	5840.1
50°	6319.4	6352.5	6529.5	6702.8	6584.8	6463.2	6511.1	6570.1	6677.0	6489.0	6400.5
52.5°	6887.1	7067.8	7185.8	7278.0	7362.8	7278.0	7167.4	7233.7	7443.9	7193.2	7082.6
55°	7705.6	7849.4	7960.0	8129.6	8199.7	8085.4	8074.3	8067.0	8184.9	7919.5	7768.3
57.5°	8620.0	8561.0	8738.0	8999.7	9254.1	9143.5	9110.4	9117.7	9147.2	8771.2	8656.9
60°	9755.6	9821.9	10032.1	10260.7	10529.8	10684.7	10467.1	10341.8	10367.6	9855.1	9678.1
62.5°	10404.5	10551.9	11027.5	11812.9	12354.8	12837.8	12871.0	12056.2	11510.5	10515.1	9762.9
65°	10091.1	10068.9	10964.9	12417.5	14471.1	15875.8	15665.7	13689.5	11783.4	10201.7	9191.5
67.5°	8583.1	8524.1	9608.1	11912.4	15304.4	18371.9	18132.2	14150.4	10861.6	9025.6	7882.6
70°	5530.4	5515.6	6691.7	9080.9	13663.7	16867.6	16956.1	12852.6	8841.2	6610.6	5478.7
72.5°	2009.4	2131.0	2813.1	4881.5	9280.0	12904.2	12959.5	9515.9	5084.2	3056.4	2252.7
75°	741.1	763.2	888.5	1585.4	4228.9	7923.2	8129.6	4616.0	1806.6	995.5	811.1
77.5°	427.7	431.4	475.6	589.9	1253.5	3093.3	3218.7	1401.0	700.5	530.9	490.4
80°	291.3	287.6	335.5	383.4	501.4	877.5	932.8	586.2	442.4	368.7	309.7
82.5°	169.6	180.7	247.0	272.8	306.0	387.1	394.5	365.0	331.8	272.8	202.8
85°	103.2	84.8	136.4	151.2	177.0	173.3	173.3	199.1	213.8	191.7	114.3
87.5°	25.8	25.8	33.2	36.9	47.9	36.9	40.6	77.4	103.2	95.9	59.0
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°	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4	3528.4
2.5°	3535.7	3524.7	3532.1	3572.6	3546.8	3469.4	3487.8	3528.4	3495.2	3476.8	3473.1
5°	3521.0	3543.1	3517.3	3524.7	3550.5	3487.8	3498.9	3550.5	3528.4	3535.7	3495.2
7.5°	3524.7	3535.7	3513.6	3480.4	3480.4	3532.1	3502.6	3509.9	3476.8	3532.1	3458.3
10°	3502.6	3473.1	3447.3	3465.7	3458.3	3443.6	3432.5	3454.6	3421.5	3469.4	3417.8
12.5°	3436.2	3443.6	3436.2	3428.8	3443.6	3480.4	3421.5	3428.8	3377.2	3384.6	3410.4
15°	3410.4	3432.5	3425.1	3465.7	3484.1	3428.8	3473.1	3428.8	3388.3	3366.1	3406.7
17.5°	3421.5	3454.6	3443.6	3473.1	3439.9	3480.4	3487.8	3469.4	3421.5	3403.0	3421.5
20°	3432.5	3421.5	3436.2	3487.8	3535.7	3495.2	3495.2	3484.1	3439.9	3414.1	3414.1
22.5°	3458.3	3439.9	3462.0	3502.6	3517.3	3580.0	3524.7	3498.9	3425.1	3358.8	3421.5
25°	3509.9	3521.0	3535.7	3521.0	3602.1	3594.7	3587.4	3568.9	3454.6	3458.3	3447.3
27.5°	3609.5	3546.8	3565.2	3653.7	3664.8	3694.3	3657.4	3690.6	3568.9	3572.6	3498.9
30°	3731.2	3664.8	3723.8	3801.2	3797.5	3852.8	3834.4	3841.8	3757.0	3709.0	3609.5
32.5°	3863.9	3856.5	3893.4	3941.3	3959.7	3989.2	3985.5	3985.5	3933.9	3808.6	3827.0
35°	4011.4	4063.0	4107.2	4158.8	4166.2	4203.1	4151.5	4158.8	4107.2	4015.0	4044.5
37.5°	4302.6	4298.9	4346.9	4409.5	4416.9	4387.4	4428.0	4409.5	4339.5	4276.8	4228.9
40°	4641.8	4568.1	4612.3	4759.8	4770.9	4719.2	4715.6	4711.9	4660.3	4523.8	4494.3
42.5°	4936.8	5032.6	5025.3	5073.2	5040.0	5014.2	5106.4	5054.8	5014.2	4870.4	4844.6
45°	5316.5	5346.0	5441.9	5596.7	5438.2	5438.2	5500.9	5460.3	5438.2	5331.3	5231.7
47.5°	5788.4	5814.3	6006.0	6017.0	5913.8	5843.8	6039.2	6046.5	5954.4	5873.2	5751.6
50°	6341.5	6352.5	6525.8	6702.8	6588.5	6455.8	6654.9	6732.3	6525.8	6415.2	6264.1
52.5°	6949.8	6916.6	7060.4	7392.3	7281.6	7241.1	7454.9	7473.4	7193.2	7019.9	7060.4
55°	7650.3	7606.1	7996.9	8221.8	8151.8	8078.0	8173.9	8218.1	7993.2	7709.3	7808.9
57.5°	8557.3	8579.4	8774.8	8996.1	9110.4	9128.8	9173.0	9128.8	8900.2	8612.6	8520.4
60°	9464.3	9530.7	9910.4	10327.0	10363.9	10688.4	10629.4	10408.1	10083.7	9674.5	9692.9
62.5°	9799.8	9744.5	10356.5	11374.1	12240.5	12834.1	12572.4	11787.0	11034.9	10290.2	10345.5
65°	9125.1	9261.5	10094.8	11687.5	13567.8	15916.4	14522.7	12351.1	10832.1	9869.9	9762.9
67.5°	7864.2	7967.4	9025.6	10706.8	14043.4	17811.5	15260.1	11554.8	9552.8	8306.6	8373.0
70°	5478.7	5530.4	6566.4	8771.2	12734.6	16808.6	13766.9	8874.4	6595.9	5257.5	5331.3
72.5°	2204.8	2330.1	3012.2	5283.3	9401.6	12771.5	9268.9	4656.6	2735.7	2035.2	1847.1
75°	814.8	818.5	962.3	1817.6	4464.8	8026.4	4181.0	1496.9	873.8	715.3	682.1
77.5°	471.9	468.2	501.4	656.3	1294.1	3133.9	1187.2	586.2	475.6	427.7	409.2
80°	295.0	291.3	342.9	435.1	567.8	859.0	501.4	365.0	320.8	276.5	276.5
82.5°	188.0	191.7	269.1	320.8	346.6	379.8	291.3	258.1	239.6	158.5	154.9
85°	121.7	110.6	188.0	213.8	191.7	169.6	162.2	136.4	125.4	77.4	84.8
87.5°	55.3	59.0	95.9	106.9	70.1	40.6	40.6	29.5	29.5	18.4	18.4
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)