

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: P479310

Luminaire Tested: **IFLD-M-SA4D-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479310
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

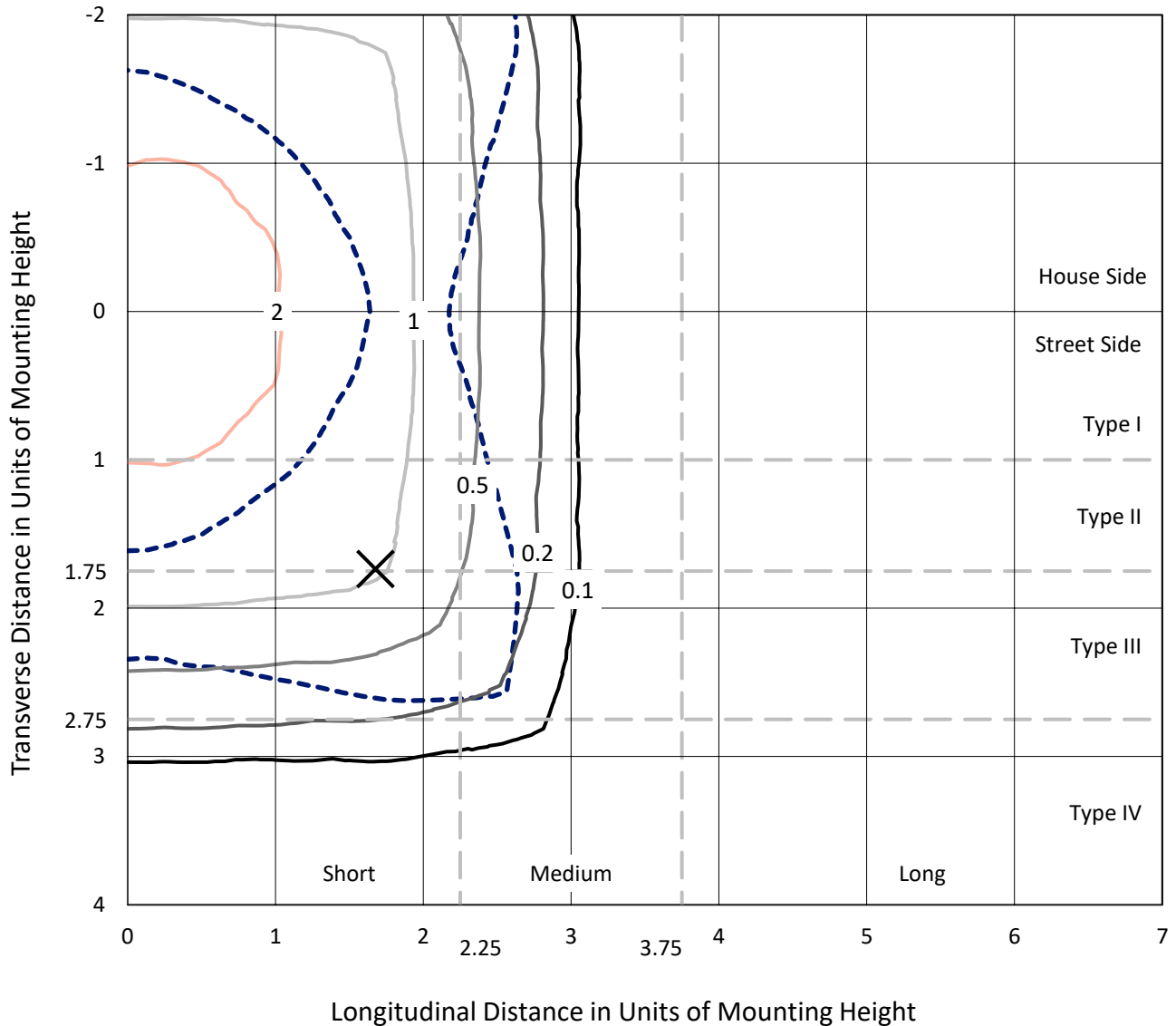
Lumens per Lamp: N/A
Luminaire Lumens: 31145.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

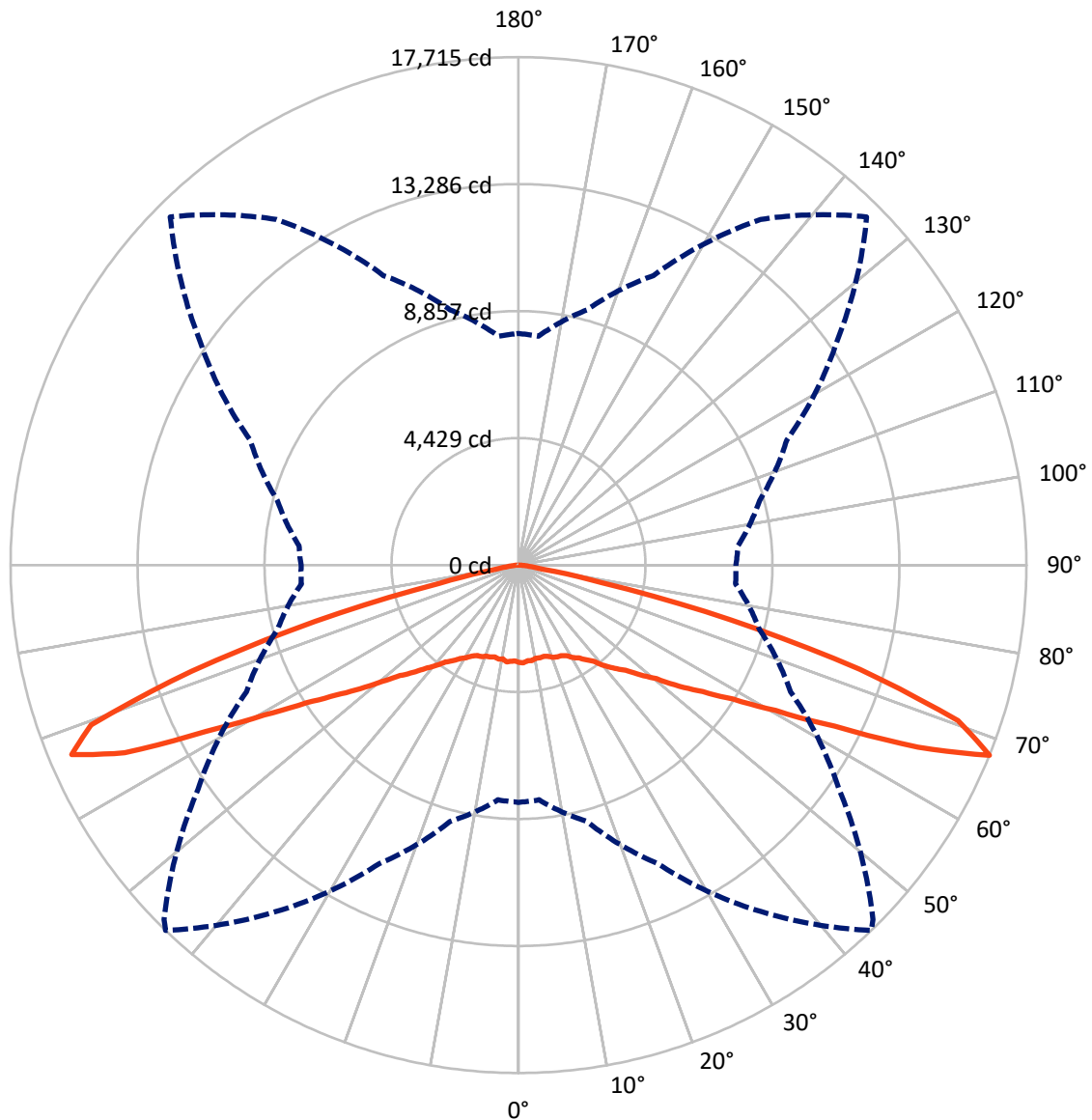
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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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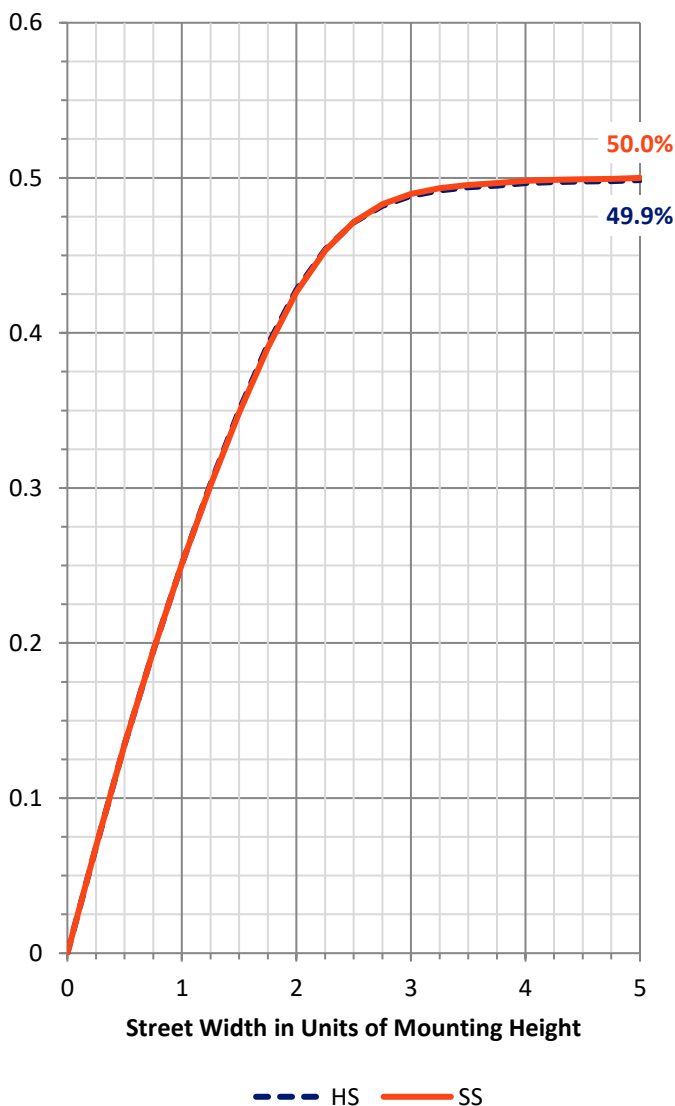
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15532.9	0.0	15532.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15612.7	0.0	15612.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	31145.6	0.0	31145.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.0
10°-20°	940.5	3.0
20°-30°	1599.5	5.1
30°-40°	2536.0	8.1
40°-50°	4135.2	13.3
50°-60°	7062.3	22.7
60°-70°	10741.7	34.5
70°-80°	3620.6	11.6
80°-90°	188.0	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°	31145.6	100.0
0°-180°	31145.6	100.0

Coefficient of Utilization



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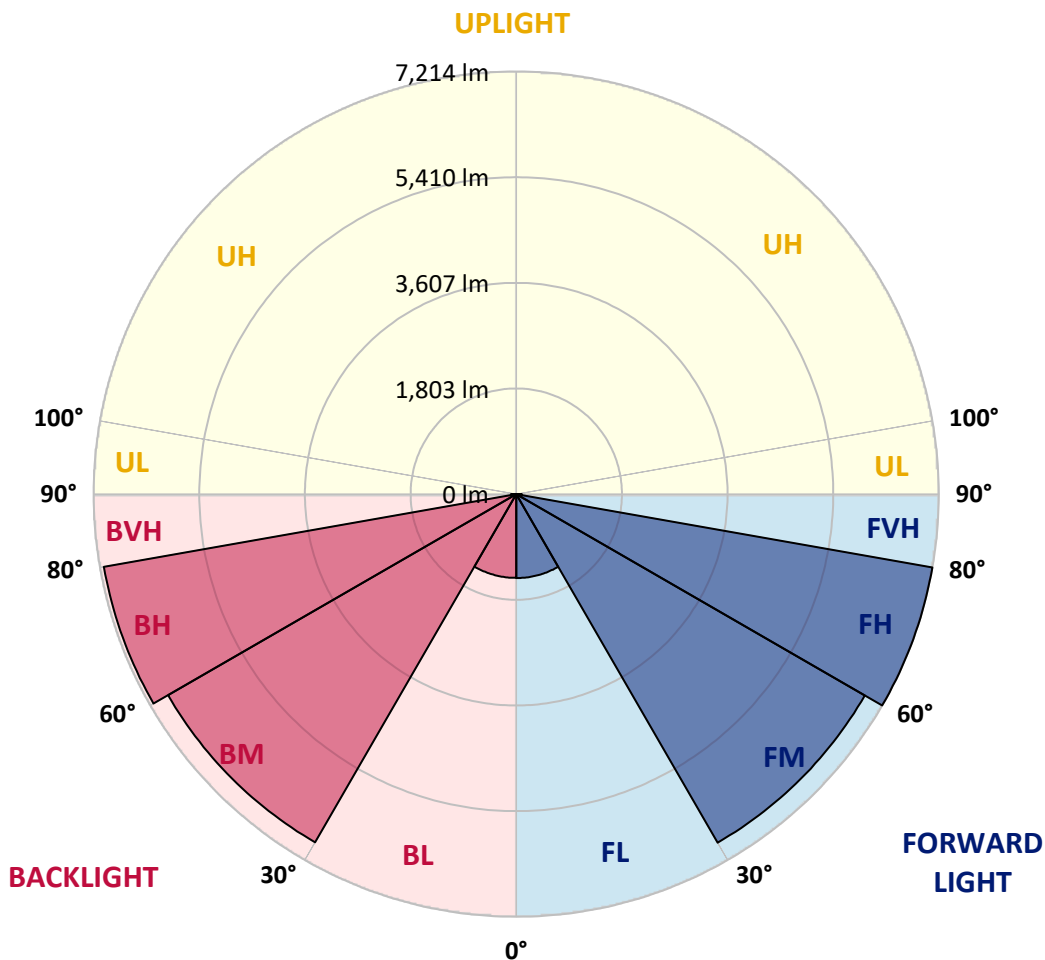
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.4	4.6			
FM (30°-60°)	6870.4	22.1			
FH (60°-80°)	7213.7	23.2			G3/7500
FVH (80°-90°)	96.2	0.3			G1/100
BL (0°-30°)	1429.5	4.6	B3/2500		
BM (30°-60°)	6863.0	22.0	B4/8500		
BH (60°-80°)	7148.6	23.0	B5		G3/7500
BVH (80°-90°)	91.8	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°	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1
2.5°	3323.9	3363.0	3391.5	3387.9	3398.6	3409.2	3395.0	3416.3	3402.1	3427.0	3441.2
5°	3387.9	3377.2	3380.8	3359.5	3409.2	3352.4	3352.4	3380.8	3416.3	3373.7	3398.6
7.5°	3348.8	3341.7	3323.9	3355.9	3366.6	3366.6	3395.0	3341.7	3402.1	3416.3	3419.9
10°	3306.1	3267.0	3320.4	3352.4	3359.5	3302.6	3327.5	3341.7	3323.9	3341.7	3352.4
12.5°	3270.6	3291.9	3291.9	3291.9	3281.3	3320.4	3345.2	3341.7	3306.1	3338.1	3281.3
15°	3267.0	3256.4	3288.4	3316.8	3299.0	3306.1	3316.8	3348.8	3281.3	3295.5	3295.5
17.5°	3263.5	3277.7	3288.4	3284.8	3345.2	3345.2	3334.6	3313.3	3366.6	3338.1	3299.0
20°	3277.7	3267.0	3295.5	3306.1	3348.8	3434.1	3402.1	3384.3	3355.9	3320.4	3320.4
22.5°	3295.5	3288.4	3327.5	3373.7	3455.4	3476.8	3473.2	3451.9	3402.1	3359.5	3352.4
25°	3359.5	3295.5	3338.1	3427.0	3455.4	3498.1	3526.5	3498.1	3430.6	3441.2	3377.2
27.5°	3455.4	3444.8	3501.7	3562.1	3537.2	3576.3	3551.4	3572.8	3576.3	3523.0	3459.0
30°	3569.2	3537.2	3572.8	3690.1	3700.7	3743.4	3700.7	3643.9	3661.6	3615.4	3583.4
32.5°	3732.7	3722.1	3789.6	3867.8	3882.0	3860.7	3839.4	3871.4	3796.7	3761.2	3704.3
35°	3839.4	3885.6	3967.4	4027.8	4074.0	4052.7	4063.4	4031.4	4049.1	3974.5	3949.6
37.5°	4155.8	4138.0	4155.8	4258.9	4269.5	4258.9	4269.5	4305.1	4280.2	4216.2	4152.2
40°	4454.4	4426.0	4468.6	4585.9	4578.8	4614.4	4543.3	4582.4	4582.4	4461.5	4436.6
42.5°	4678.4	4774.4	4824.1	4920.1	4955.7	4923.7	4909.4	4916.6	4994.8	4852.6	4799.2
45°	5140.5	5137.0	5286.3	5339.6	5240.1	5232.9	5204.5	5289.8	5343.1	5261.4	5240.1
47.5°	5641.8	5666.7	5752.0	5773.3	5833.7	5723.5	5723.5	5734.2	5922.6	5730.6	5631.1
50°	6093.3	6125.2	6295.9	6463.0	6349.2	6231.9	6278.1	6335.0	6438.1	6256.8	6171.5
52.5°	6640.7	6814.9	6928.7	7017.5	7099.3	7017.5	6910.9	6974.9	7177.5	6935.8	6829.1
55°	7429.9	7568.6	7675.2	7838.8	7906.3	7796.1	7785.4	7778.3	7892.1	7636.1	7490.4
57.5°	8311.6	8254.7	8425.3	8677.7	8923.0	8816.4	8784.4	8791.5	8819.9	8457.3	8347.1
60°	9406.5	9470.5	9673.1	9893.5	10153.0	10302.4	10092.6	9971.7	9996.6	9502.5	9331.8
62.5°	10032.2	10174.4	10633.0	11390.2	11912.8	12378.5	12410.5	11624.8	11098.7	10138.8	9413.6
65°	9730.0	9708.7	10572.5	11973.2	13953.3	15307.8	15105.2	13199.7	11361.7	9836.7	8862.6
67.5°	8276.0	8219.1	9264.3	11486.2	14756.8	17714.5	17483.4	13644.0	10473.0	8702.6	7600.6
70°	5332.5	5318.3	6452.3	8755.9	13174.8	16264.1	16349.4	12392.7	8524.9	6374.1	5282.7
72.5°	1937.5	2054.8	2712.5	4706.8	8947.9	12442.5	12495.8	9175.4	4902.3	2947.1	2172.1
75°	714.6	735.9	856.8	1528.6	4077.6	7639.7	7838.8	4450.8	1741.9	959.8	782.1
77.5°	412.4	415.9	458.6	568.8	1208.7	2982.6	3103.5	1350.9	675.4	511.9	472.8
80°	280.8	277.3	323.5	369.7	483.5	846.1	899.4	565.2	426.6	355.5	298.6
82.5°	163.5	174.2	238.2	263.1	295.1	373.3	380.4	351.9	319.9	263.1	195.5
85°	99.5	81.8	131.5	145.8	170.6	167.1	167.1	192.0	206.2	184.9	110.2
87.5°	24.9	24.9	32.0	35.5	46.2	35.5	39.1	74.7	99.5	92.4	56.9
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°	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1	3402.1
2.5°	3409.2	3398.6	3405.7	3444.8	3419.9	3345.2	3363.0	3402.1	3370.1	3352.4	3348.8
5°	3395.0	3416.3	3391.5	3398.6	3423.5	3363.0	3373.7	3423.5	3402.1	3409.2	3370.1
7.5°	3398.6	3409.2	3387.9	3355.9	3355.9	3405.7	3377.2	3384.3	3352.4	3405.7	3334.6
10°	3377.2	3348.8	3323.9	3341.7	3334.6	3320.4	3309.7	3331.0	3299.0	3345.2	3295.5
12.5°	3313.3	3320.4	3313.3	3306.1	3320.4	3355.9	3299.0	3306.1	3256.4	3263.5	3288.4
15°	3288.4	3309.7	3302.6	3341.7	3359.5	3306.1	3348.8	3306.1	3267.0	3245.7	3284.8
17.5°	3299.0	3331.0	3320.4	3348.8	3316.8	3355.9	3363.0	3345.2	3299.0	3281.3	3299.0
20°	3309.7	3299.0	3313.3	3363.0	3409.2	3370.1	3370.1	3359.5	3316.8	3291.9	3291.9
22.5°	3334.6	3316.8	3338.1	3377.2	3391.5	3451.9	3398.6	3373.7	3302.6	3238.6	3299.0
25°	3384.3	3395.0	3409.2	3395.0	3473.2	3466.1	3459.0	3441.2	3331.0	3334.6	3323.9
27.5°	3480.3	3419.9	3437.7	3523.0	3533.7	3562.1	3526.5	3558.5	3441.2	3444.8	3373.7
30°	3597.6	3533.7	3590.5	3665.2	3661.6	3715.0	3697.2	3704.3	3622.5	3576.3	3480.3
32.5°	3725.6	3718.5	3754.1	3800.3	3818.1	3846.5	3842.9	3842.9	3793.2	3672.3	3690.1
35°	3867.8	3917.6	3960.3	4010.0	4017.1	4052.7	4002.9	4010.0	3960.3	3871.4	3899.8
37.5°	4148.7	4145.1	4191.3	4251.8	4258.9	4230.4	4269.5	4251.8	4184.2	4123.8	4077.6
40°	4475.7	4404.6	4447.3	4589.5	4600.2	4550.4	4546.8	4543.3	4493.5	4362.0	4333.5
42.5°	4760.1	4852.6	4845.5	4891.7	4859.7	4834.8	4923.7	4873.9	4834.8	4696.1	4671.3
45°	5126.3	5154.7	5247.2	5396.5	5243.6	5243.6	5304.0	5264.9	5243.6	5140.5	5044.5
47.5°	5581.3	5606.2	5791.1	5801.7	5702.2	5634.7	5823.1	5830.2	5741.3	5663.1	5545.8
50°	6114.6	6125.2	6292.3	6463.0	6352.8	6224.8	6416.8	6491.4	6292.3	6185.7	6039.9
52.5°	6701.2	6669.2	6807.8	7127.8	7021.1	6982.0	7188.2	7206.0	6935.8	6768.7	6807.8
55°	7376.6	7333.9	7710.8	7927.6	7860.1	7789.0	7881.4	7924.1	7707.2	7433.5	7529.5
57.5°	8251.1	8272.5	8460.9	8674.2	8784.4	8802.2	8844.8	8802.2	8581.7	8304.5	8215.6
60°	9125.7	9189.6	9555.8	9957.5	9993.1	10305.9	10249.0	10035.7	9722.9	9328.3	9346.1
62.5°	9449.2	9395.8	9986.0	10967.1	11802.6	12374.9	12122.5	11365.3	10640.1	9922.0	9975.3
65°	8798.6	8930.1	9733.6	11269.3	13082.4	15346.9	14003.1	11909.2	10444.6	9516.7	9413.6
67.5°	7582.8	7682.3	8702.6	10323.7	13541.0	17174.2	14714.1	11141.3	9211.0	8009.4	8073.4
70°	5282.7	5332.5	6331.4	8457.3	12278.9	16207.2	13274.3	8556.9	6359.9	5069.4	5140.5
72.5°	2125.9	2246.8	2904.4	5094.3	9065.2	12314.5	8937.2	4490.0	2637.8	1962.4	1781.0
75°	785.7	789.2	927.9	1752.6	4305.1	7739.2	4031.4	1443.3	842.5	689.7	657.7
77.5°	455.0	451.5	483.5	632.8	1247.8	3021.7	1144.7	565.2	458.6	412.4	394.6
80°	284.4	280.8	330.6	419.5	547.5	828.3	483.5	351.9	309.3	266.6	266.6
82.5°	181.3	184.9	259.5	309.3	334.2	366.2	280.8	248.8	231.1	152.9	149.3
85°	117.3	106.6	181.3	206.2	184.9	163.5	156.4	131.5	120.9	74.7	81.8
87.5°	53.3	56.9	92.4	103.1	67.5	39.1	39.1	28.4	28.4	17.8	17.8
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)