

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: P479356

Luminaire Tested: **IFLD-L-SA8A-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479356
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

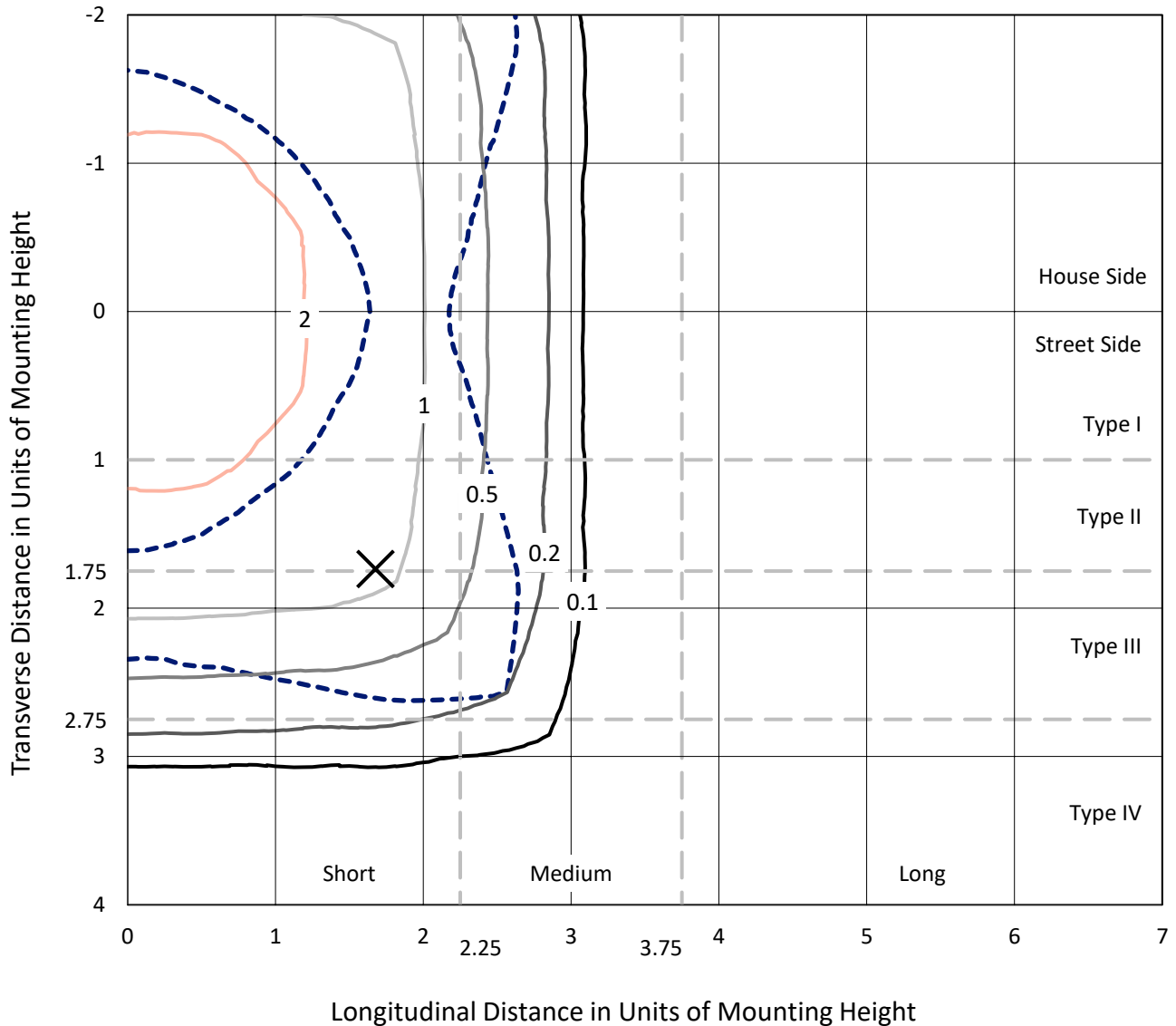
Lumens per Lamp: N/A
Luminaire Lumens: 34578.5 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8
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

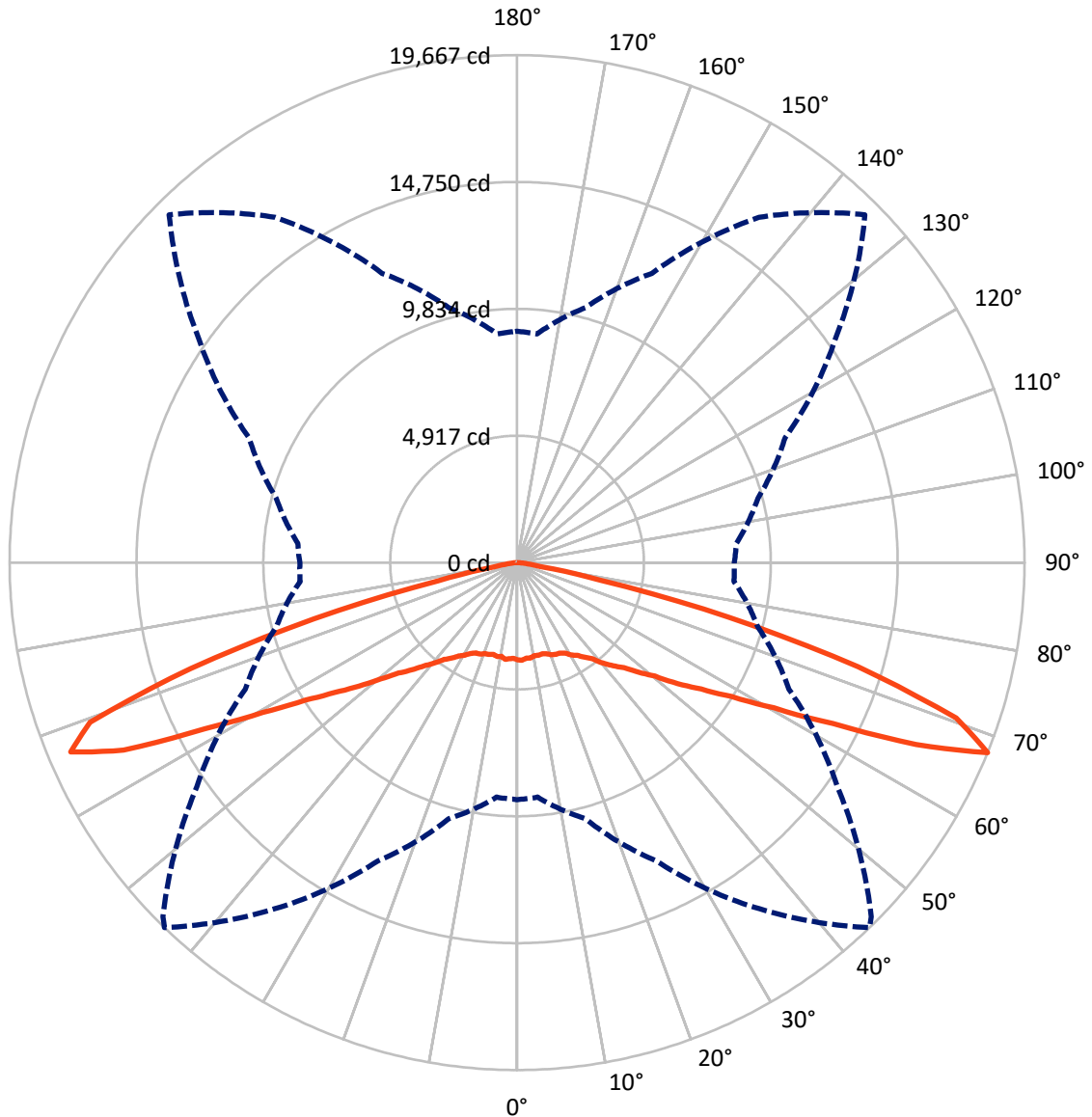
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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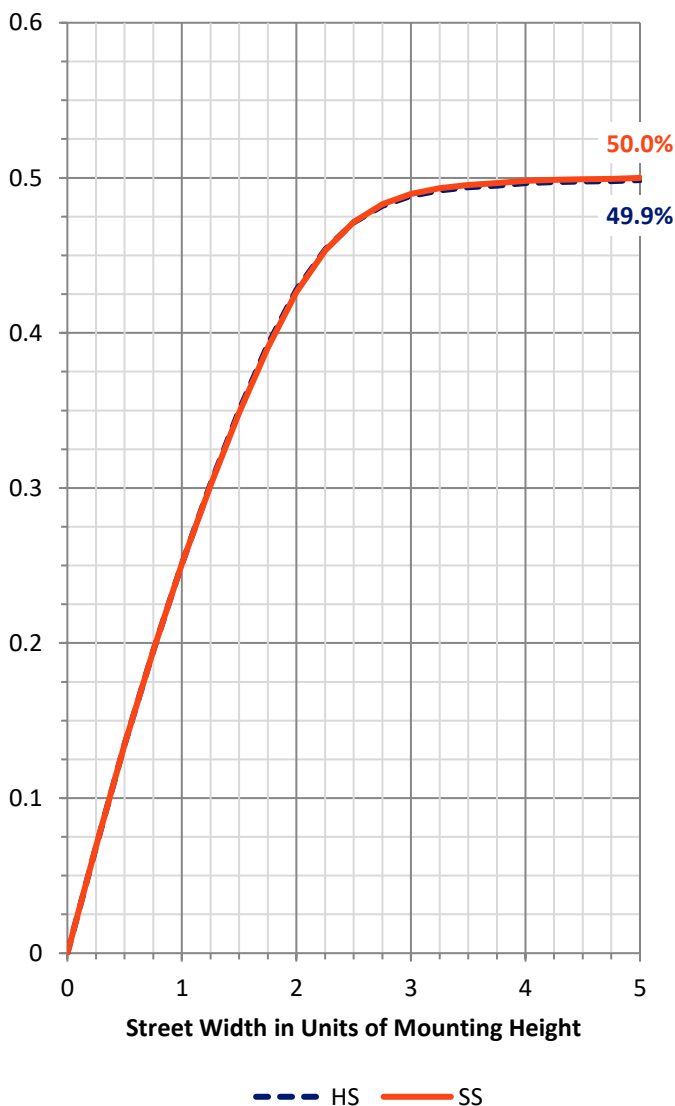
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17245.0	0.0	17245.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17333.5	0.0	17333.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	34578.5	0.0	34578.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.4	1.0
10°-20°	1044.2	3.0
20°-30°	1775.7	5.1
30°-40°	2815.5	8.1
40°-50°	4590.9	13.3
50°-60°	7840.7	22.7
60°-70°	11925.6	34.5
70°-80°	4019.7	11.6
80°-90°	208.7	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°	34578.5	100.0
0°-180°	34578.5	100.0

Coefficient of Utilization



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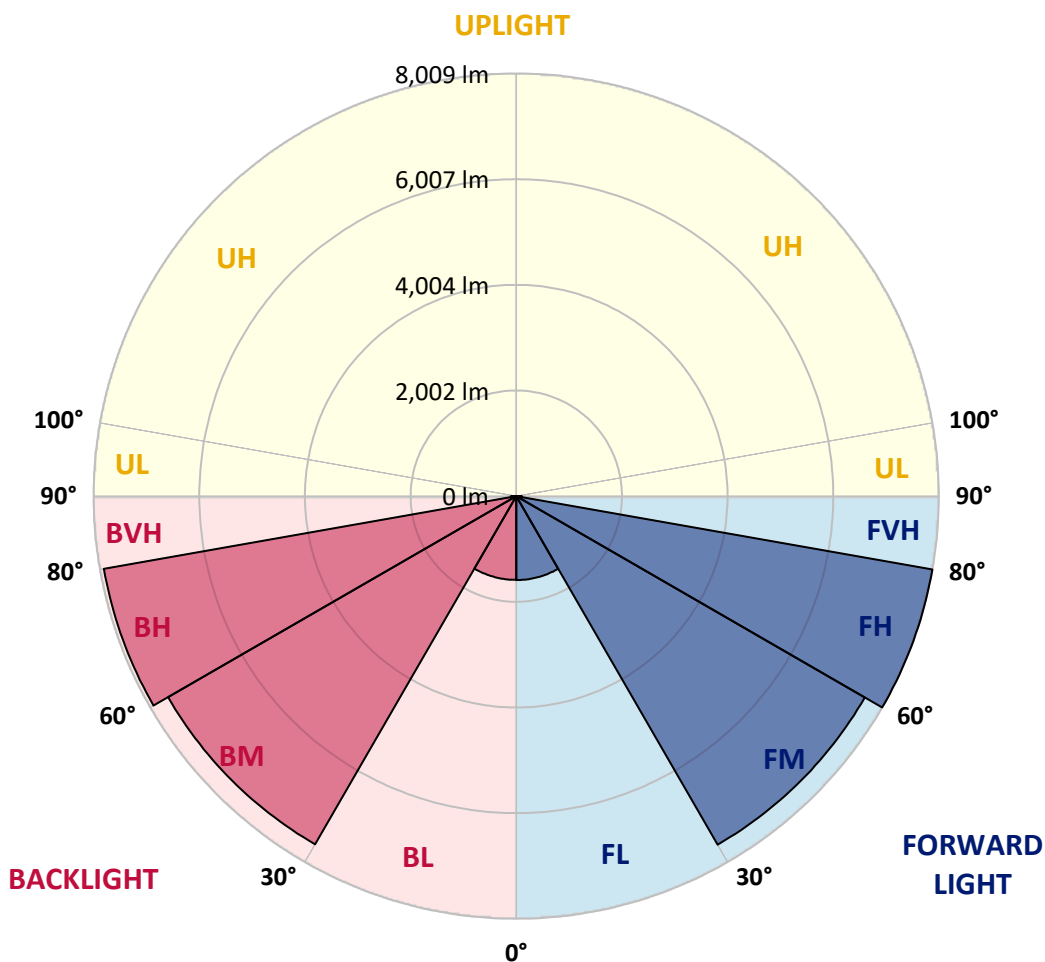
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1590.3	4.6			
FM (30°-60°)	7627.7	22.1			
FH (60°-80°)	8008.8	23.2			G4/12000
FVH (80°-90°)	106.8	0.3			G2/225
BL (0°-30°)	1587.1	4.6	B3/2500		
BM (30°-60°)	7619.5	22.0	B4/8500		
BH (60°-80°)	7936.5	23.0	B5		G4/12000
BVH (80°-90°)	101.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1
2.5°	3690.3	3733.7	3765.3	3761.3	3773.2	3785.0	3769.2	3792.9	3777.1	3804.7	3820.5
5°	3761.3	3749.5	3753.4	3729.7	3785.0	3721.9	3721.9	3753.4	3792.9	3745.5	3773.2
7.5°	3717.9	3710.0	3690.3	3725.8	3737.6	3737.6	3769.2	3710.0	3777.1	3792.9	3796.8
10°	3670.5	3627.1	3686.3	3721.9	3729.7	3666.6	3694.2	3710.0	3690.3	3710.0	3721.9
12.5°	3631.1	3654.8	3654.8	3654.8	3642.9	3686.3	3714.0	3710.0	3670.5	3706.1	3642.9
15°	3627.1	3615.3	3650.8	3682.4	3662.7	3670.5	3682.4	3717.9	3642.9	3658.7	3658.7
17.5°	3623.2	3639.0	3650.8	3646.9	3714.0	3714.0	3702.1	3678.4	3737.6	3706.1	3662.7
20°	3639.0	3627.1	3658.7	3670.5	3717.9	3812.6	3777.1	3757.4	3725.8	3686.3	3686.3
22.5°	3658.7	3650.8	3694.2	3745.5	3836.3	3860.0	3856.0	3832.4	3777.1	3729.7	3721.9
25°	3729.7	3658.7	3706.1	3804.7	3836.3	3883.7	3915.2	3883.7	3808.7	3820.5	3749.5
27.5°	3836.3	3824.5	3887.6	3954.7	3927.1	3970.5	3942.9	3966.6	3970.5	3911.3	3840.3
30°	3962.6	3927.1	3966.6	4096.8	4108.6	4156.0	4108.6	4045.5	4065.2	4013.9	3978.4
32.5°	4144.2	4132.3	4207.3	4294.1	4309.9	4286.3	4262.6	4298.1	4215.2	4175.7	4112.6
35°	4262.6	4313.9	4404.7	4471.8	4523.1	4499.4	4511.2	4475.7	4495.4	4412.5	4384.9
37.5°	4613.8	4594.1	4613.8	4728.3	4740.1	4728.3	4740.1	4779.6	4752.0	4680.9	4609.9
40°	4945.4	4913.8	4961.2	5091.4	5083.5	5123.0	5044.0	5087.5	5087.5	4953.3	4925.6
42.5°	5194.0	5300.6	5355.8	5462.4	5501.9	5466.4	5450.6	5458.5	5545.3	5387.4	5328.2
45°	5707.1	5703.2	5868.9	5928.1	5817.6	5809.7	5778.1	5872.9	5932.1	5841.3	5817.6
47.5°	6263.6	6291.2	6386.0	6409.6	6476.7	6354.4	6354.4	6366.2	6575.4	6362.3	6251.8
50°	6764.9	6800.4	6989.8	7175.3	7049.0	6918.8	6970.1	7033.2	7147.7	6946.4	6851.7
52.5°	7372.7	7566.1	7692.4	7791.0	7881.8	7791.0	7672.6	7743.7	7968.6	7700.3	7581.8
55°	8248.9	8402.8	8521.2	8702.7	8777.7	8655.4	8643.5	8635.6	8761.9	8477.8	8316.0
57.5°	9227.7	9164.5	9354.0	9634.2	9906.5	9788.1	9752.6	9760.5	9792.1	9389.5	9267.1
60°	10443.3	10514.3	10739.3	10984.0	11272.1	11437.9	11205.0	11070.8	11098.5	10549.9	10360.4
62.5°	11137.9	11295.8	11804.9	12645.6	13225.8	13742.8	13778.4	12906.1	12322.0	11256.3	10451.2
65°	10802.5	10778.8	11737.9	13292.9	15491.3	16995.0	16770.1	14654.6	12614.0	10920.9	9839.4
67.5°	9188.2	9125.1	10285.4	12752.2	16383.3	19667.0	19410.5	15147.9	11627.3	9661.8	8438.3
70°	5920.2	5904.4	7163.5	9721.0	14626.9	18056.7	18151.4	13758.6	9464.5	7076.7	5865.0
72.5°	2151.0	2281.3	3011.4	5225.6	9934.2	13813.9	13873.1	10186.8	5442.7	3271.9	2411.5
75°	793.3	817.0	951.2	1697.1	4527.0	8481.7	8702.7	4941.4	1933.9	1065.6	868.3
77.5°	457.8	461.8	509.1	631.5	1341.9	3311.4	3445.6	1499.8	749.9	568.3	524.9
80°	311.8	307.9	359.2	410.5	536.8	939.3	998.5	627.5	473.6	394.7	331.5
82.5°	181.6	193.4	264.4	292.1	327.6	414.4	422.3	390.7	355.2	292.1	217.1
85°	110.5	90.8	146.0	161.8	189.4	185.5	185.5	213.1	228.9	205.2	122.4
87.5°	27.6	27.6	35.5	39.5	51.3	39.5	43.4	82.9	110.5	102.6	63.1
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°	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1	3777.1
2.5°	3785.0	3773.2	3781.1	3824.5	3796.8	3714.0	3733.7	3777.1	3741.6	3721.9	3717.9
5°	3769.2	3792.9	3765.3	3773.2	3800.8	3733.7	3745.5	3800.8	3777.1	3785.0	3741.6
7.5°	3773.2	3785.0	3761.3	3725.8	3725.8	3781.1	3749.5	3757.4	3721.9	3781.1	3702.1
10°	3749.5	3717.9	3690.3	3710.0	3702.1	3686.3	3674.5	3698.2	3662.7	3714.0	3658.7
12.5°	3678.4	3686.3	3678.4	3670.5	3686.3	3725.8	3662.7	3670.5	3615.3	3623.2	3650.8
15°	3650.8	3674.5	3666.6	3710.0	3729.7	3670.5	3717.9	3670.5	3627.1	3603.4	3646.9
17.5°	3662.7	3698.2	3686.3	3717.9	3682.4	3725.8	3733.7	3714.0	3662.7	3642.9	3662.7
20°	3674.5	3662.7	3678.4	3733.7	3785.0	3741.6	3741.6	3729.7	3682.4	3654.8	3654.8
22.5°	3702.1	3682.4	3706.1	3749.5	3765.3	3832.4	3773.2	3745.5	3666.6	3595.6	3662.7
25°	3757.4	3769.2	3785.0	3769.2	3856.0	3848.2	3840.3	3820.5	3698.2	3702.1	3690.3
27.5°	3863.9	3796.8	3816.6	3911.3	3923.1	3954.7	3915.2	3950.8	3820.5	3824.5	3745.5
30°	3994.2	3923.1	3986.3	4069.2	4065.2	4124.4	4104.7	4112.6	4021.8	3970.5	3863.9
32.5°	4136.3	4128.4	4167.8	4219.2	4238.9	4270.5	4266.5	4266.5	4211.3	4077.1	4096.8
35°	4294.1	4349.4	4396.8	4452.0	4459.9	4499.4	4444.1	4452.0	4396.8	4298.1	4329.7
37.5°	4605.9	4602.0	4653.3	4720.4	4728.3	4696.7	4740.1	4720.4	4645.4	4578.3	4527.0
40°	4969.1	4890.1	4937.5	5095.3	5107.2	5051.9	5048.0	5044.0	4988.8	4842.8	4811.2
42.5°	5284.8	5387.4	5379.5	5430.8	5395.3	5367.7	5466.4	5411.1	5367.7	5213.8	5186.1
45°	5691.3	5722.9	5825.5	5991.3	5821.6	5821.6	5888.7	5845.2	5821.6	5707.1	5600.5
47.5°	6196.5	6224.1	6429.4	6441.2	6330.7	6255.7	6464.9	6472.8	6374.1	6287.3	6157.0
50°	6788.5	6800.4	6985.9	7175.3	7053.0	6910.9	7124.0	7206.9	6985.9	6867.5	6705.7
52.5°	7439.8	7404.2	7558.2	7913.4	7795.0	7751.6	7980.5	8000.2	7700.3	7514.8	7558.2
55°	8189.7	8142.3	8560.7	8801.4	8726.4	8647.5	8750.1	8797.5	8556.7	8252.8	8359.4
57.5°	9160.6	9184.3	9393.4	9630.2	9752.6	9772.3	9819.7	9772.3	9527.6	9219.8	9121.1
60°	10131.5	10202.5	10609.1	11055.1	11094.5	11441.8	11378.7	11141.9	10794.6	10356.5	10376.2
62.5°	10490.7	10431.5	11086.6	12175.9	13103.5	13738.9	13458.7	12618.0	11812.8	11015.6	11074.8
65°	9768.4	9914.4	10806.4	12511.4	14524.3	17038.4	15546.5	13221.9	11595.8	10565.6	10451.2
67.5°	8418.6	8529.1	9661.8	11461.6	15033.4	19067.1	16335.9	12369.3	10226.2	8892.2	8963.2
70°	5865.0	5920.2	7029.3	9389.5	13632.3	17993.6	14737.4	9500.0	7060.9	5628.2	5707.1
72.5°	2360.2	2494.4	3224.6	5655.8	10064.4	13671.8	9922.3	4984.8	2928.5	2178.6	1977.4
75°	872.2	876.2	1030.1	1945.8	4779.6	8592.2	4475.7	1602.4	935.4	765.7	730.2
77.5°	505.2	501.2	536.8	702.5	1385.3	3354.8	1270.9	627.5	509.1	457.8	438.1
80°	315.7	311.8	367.1	465.7	607.8	919.6	536.8	390.7	343.4	296.0	296.0
82.5°	201.3	205.2	288.1	343.4	371.0	406.5	311.8	276.3	256.5	169.7	165.8
85°	130.2	118.4	201.3	228.9	205.2	181.6	173.7	146.0	134.2	82.9	90.8
87.5°	59.2	63.1	102.6	114.5	75.0	43.4	43.4	31.6	31.6	19.7	19.7
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)