

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: P481262

Luminaire Tested: **IFLD-L-SA7A-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481262  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

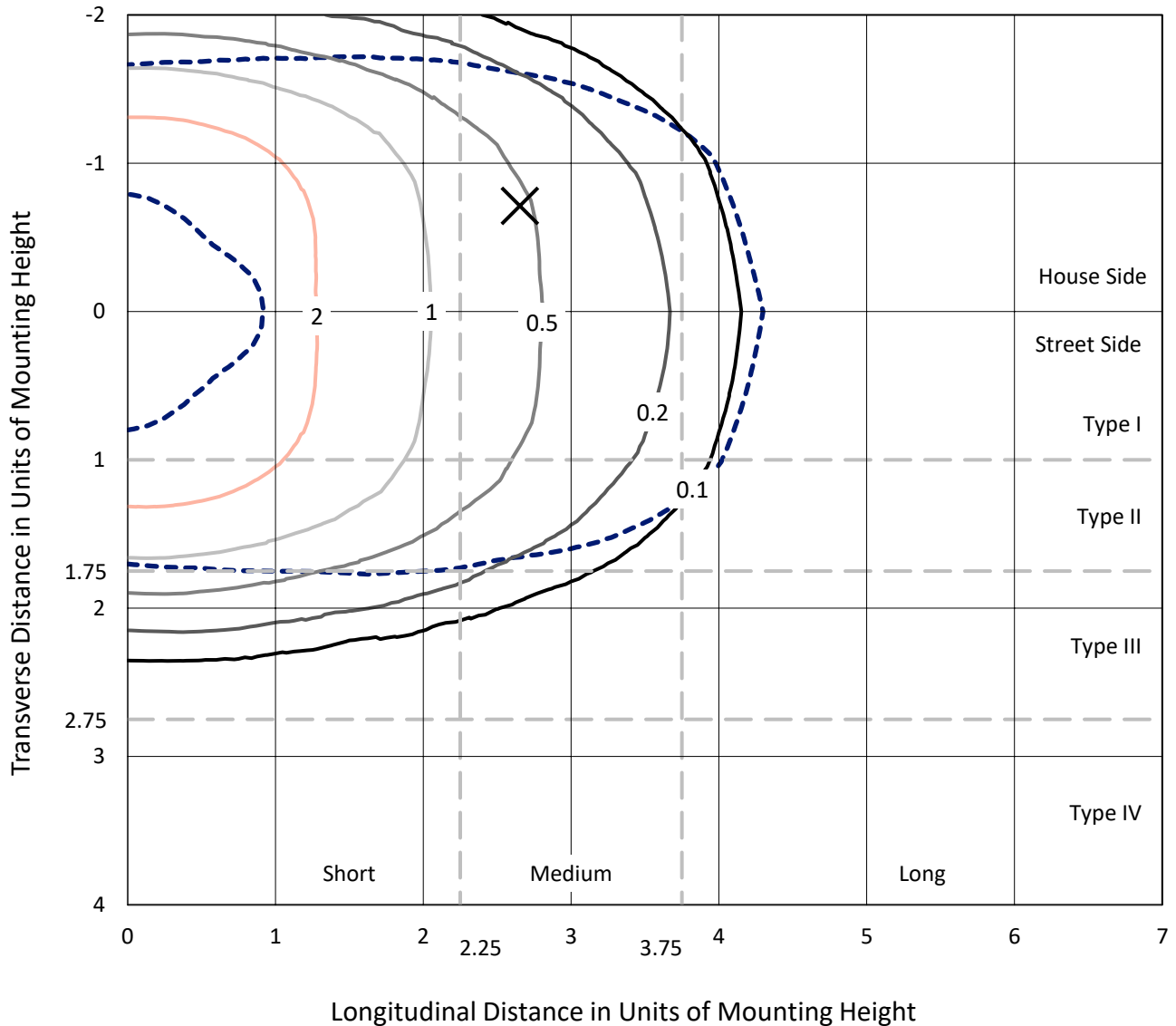
Lumens per Lamp: N/A  
Luminaire Lumens: 31798.7 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

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### Iso-Footcandle Lines of Horizontal Illumination

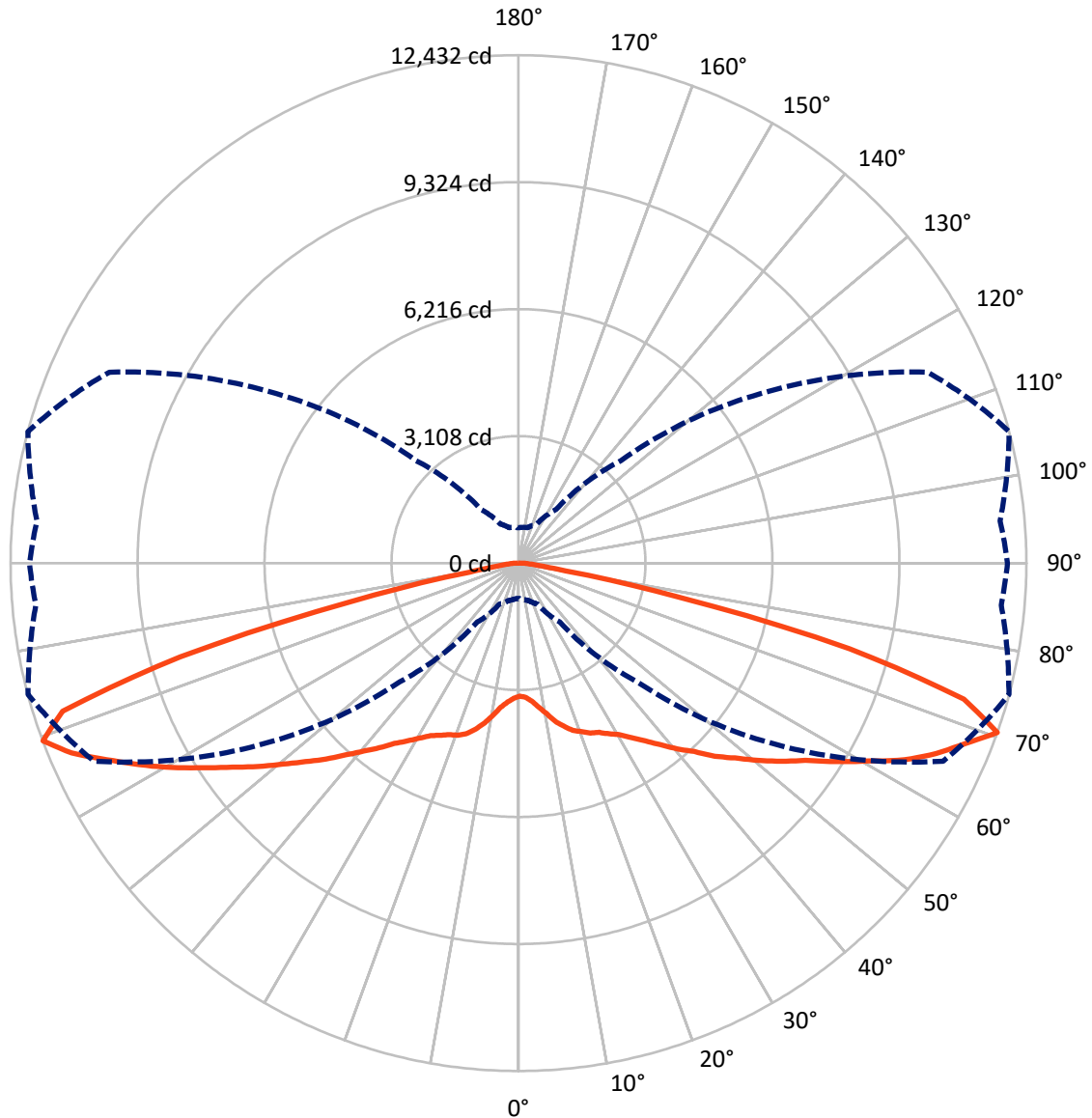
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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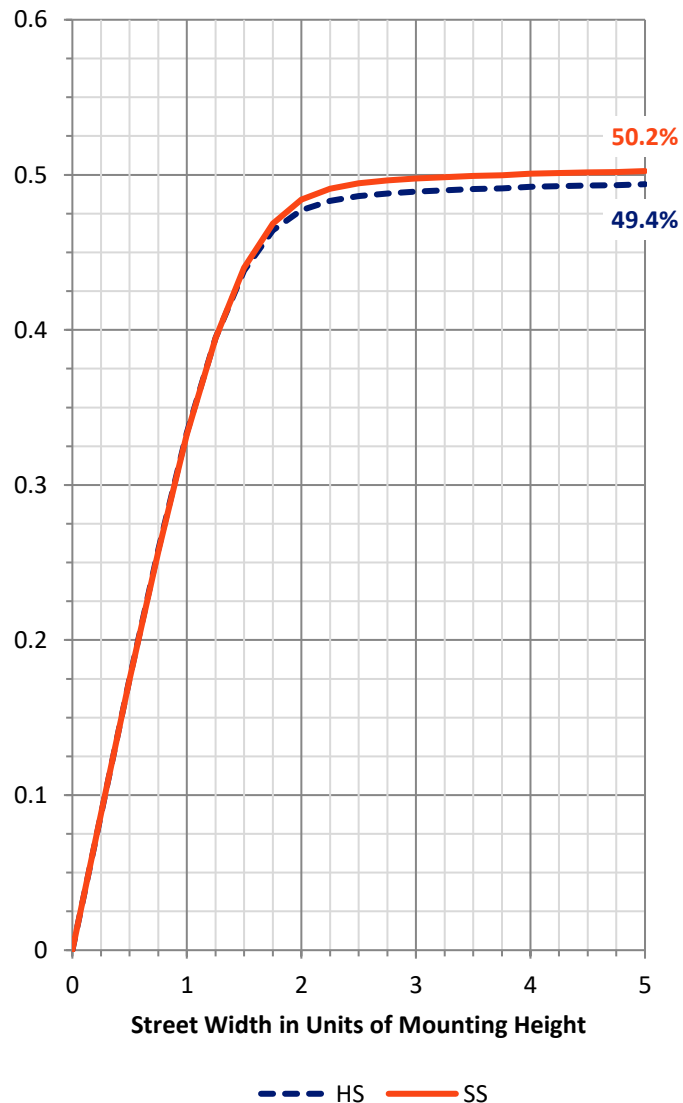
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15786.2	0.0	15786.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	16012.5	0.0	16012.5
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	31798.7	0.0	31798.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.1	1.0
10°-20°	1103.5	3.5
20°-30°	2136.8	6.7
30°-40°	3614.2	11.4
40°-50°	5765.7	18.1
50°-60°	7892.0	24.8
60°-70°	7438.8	23.4
70°-80°	3277.0	10.3
80°-90°	246.6	0.8
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°	31798.7	100.0
0°-180°	31798.7	100.0

**Coefficient of Utilization**



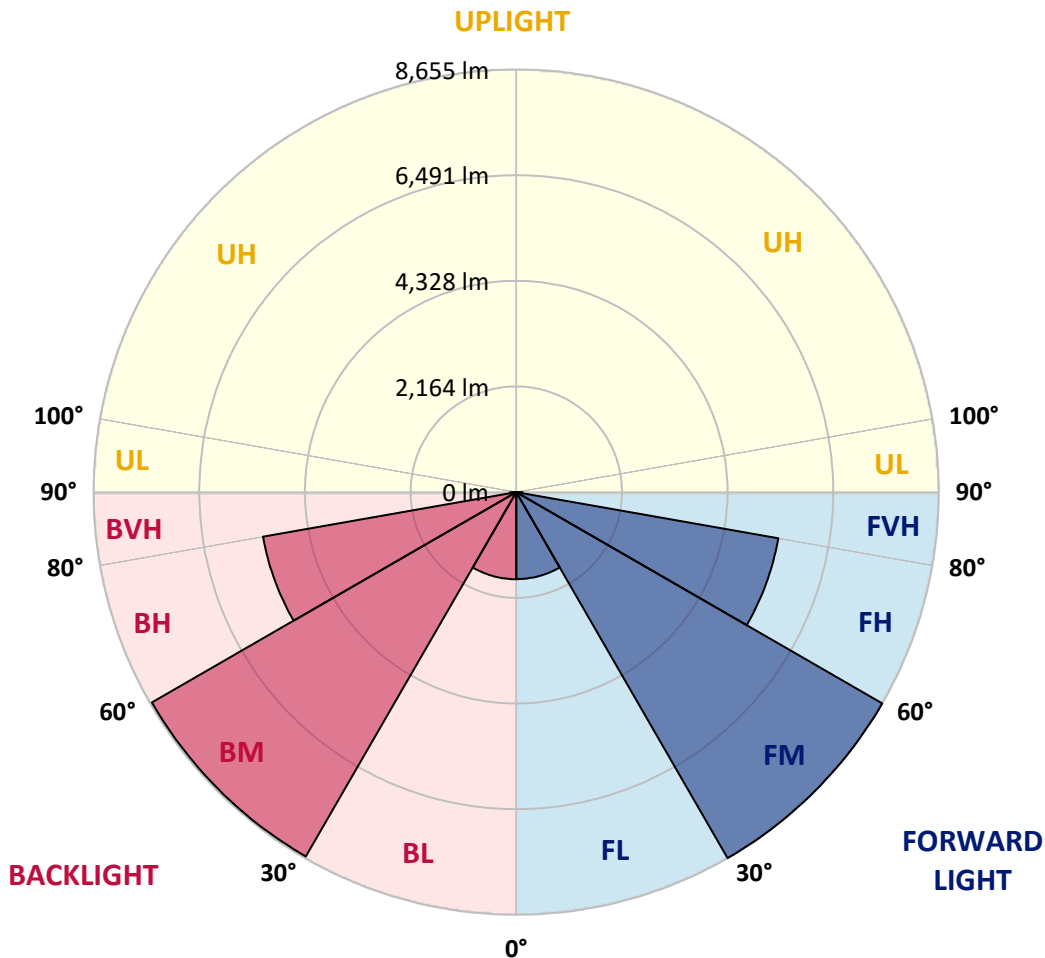
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.2	5.6			
FM (30°-60°)	8655.3	27.2			
FH (60°-80°)	5449.9	17.1			G3/7500
FVH (80°-90°)	125.9	0.4			G2/225
BL (0°-30°)	1783.2	5.6	B3/2500		
BM (30°-60°)	8616.6	27.1	B5		
BH (60°-80°)	5265.8	16.6	B5		G5
BVH (80°-90°)	120.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2
2.5°	3235.6	3235.6	3232.2	3249.3	3266.4	3273.3	3287.0	3290.4	3311.0	3293.9	3328.1
5°	3225.3	3221.9	3249.3	3290.4	3290.4	3335.0	3362.4	3400.1	3410.4	3431.0	3437.8
7.5°	3297.3	3290.4	3276.7	3321.3	3359.0	3427.5	3465.2	3530.4	3554.4	3581.8	3612.6
10°	3341.8	3341.8	3328.1	3407.0	3441.2	3533.8	3616.0	3681.2	3773.7	3804.6	3808.0
12.5°	3348.7	3359.0	3400.1	3502.9	3598.9	3718.9	3780.6	3904.0	3996.5	4054.8	4075.3
15°	3451.5	3431.0	3475.5	3616.0	3756.6	3862.8	3972.5	4061.6	4195.3	4270.7	4318.7
17.5°	3544.1	3523.5	3605.8	3773.7	3917.7	4082.2	4178.2	4274.1	4370.1	4438.7	4442.1
20°	3691.5	3708.6	3780.6	3962.2	4150.7	4294.7	4404.4	4421.5	4469.5	4568.9	4551.8
22.5°	3873.1	3859.4	4010.2	4209.0	4414.7	4534.6	4596.3	4551.8	4527.8	4634.0	4658.0
25°	4054.8	4095.9	4233.0	4418.1	4664.9	4826.0	4843.1	4719.7	4630.6	4668.3	4658.0
27.5°	4332.4	4339.3	4483.2	4702.6	4952.8	5093.3	5083.0	4908.2	4736.8	4740.3	4747.1
30°	4688.9	4654.6	4812.3	5011.1	5257.8	5384.7	5401.8	5151.6	4921.9	4853.4	4870.5
32.5°	5031.6	5072.7	5209.8	5436.1	5617.7	5689.7	5652.0	5429.2	5131.0	5038.5	5048.8
35°	5470.3	5463.5	5652.0	5843.9	5981.0	5994.8	5963.9	5638.3	5357.2	5237.3	5189.3
37.5°	5939.9	6001.6	6125.0	6282.7	6426.6	6433.5	6265.5	6005.0	5658.9	5460.1	5518.3
40°	6464.3	6532.9	6622.0	6851.6	6957.9	6848.2	6676.8	6323.8	5963.9	5789.1	5816.5
42.5°	6927.0	6957.9	7139.5	7410.3	7461.7	7413.8	7160.1	6731.7	6313.5	6121.6	6135.3
45°	7352.1	7393.2	7629.7	7873.0	7993.0	7910.7	7616.0	7208.1	6721.4	6556.9	6491.7
47.5°	7742.8	7825.1	8054.7	8304.9	8490.0	8496.9	8133.5	7640.0	7125.8	6909.9	6906.5
50°	8006.7	8126.7	8352.9	8637.4	8908.2	9014.4	8651.1	8119.8	7568.0	7338.3	7314.4
52.5°	8150.7	8274.1	8500.3	8942.4	9244.1	9408.6	9237.2	8568.8	8085.5	7845.6	7807.9
55°	7975.9	8058.1	8428.3	9048.7	9514.8	9785.6	9672.5	9189.2	8599.7	8404.3	8438.6
57.5°	7232.1	7403.5	7859.3	8634.0	9508.0	10172.9	10162.6	9775.3	9192.6	9007.6	9014.4
60°	5953.6	6097.6	6659.7	7742.8	9124.1	10330.6	10693.9	10344.3	9857.6	9641.6	9634.8
62.5°	4202.2	4383.8	5035.0	6217.5	7993.0	10111.2	11304.0	11060.6	10508.8	10351.1	10409.4
65°	2351.3	2461.0	3064.2	4133.6	6090.7	8904.7	11413.7	11804.4	11170.3	10930.4	10940.7
67.5°	1257.9	1299.0	1580.1	2169.6	3725.7	6865.3	10306.6	12232.9	11886.7	11471.9	11406.8
70°	863.7	877.4	949.4	1110.5	1761.8	4106.2	7773.6	11468.5	12424.8	11859.3	11968.9
72.5°	730.1	723.2	740.3	757.5	922.0	1837.2	4562.0	8825.9	11729.0	11516.5	11475.4
75°	634.1	630.7	637.5	620.4	640.9	808.9	2018.8	5501.2	8586.0	9583.4	9737.6
77.5°	524.4	527.8	531.3	514.1	507.3	534.7	812.3	2416.4	4226.1	4664.9	5031.6
80°	397.6	404.4	431.9	414.7	387.3	390.7	479.9	808.9	1213.3	1100.2	1134.5
82.5°	270.8	274.2	332.5	311.9	291.3	263.9	308.5	418.2	473.0	359.9	315.3
85°	191.9	188.5	215.9	198.8	185.1	133.7	185.1	236.5	284.5	178.2	161.1
87.5°	44.6	44.6	89.1	72.0	68.6	54.8	72.0	92.5	123.4	78.8	72.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2	3256.2
2.5°	3317.9	3287.0	3287.0	3280.1	3252.7	3245.9	3221.9	3228.7	3211.6	3194.5
5°	3434.4	3393.3	3393.3	3335.0	3280.1	3273.3	3245.9	3245.9	3218.5	3225.3
7.5°	3595.5	3557.8	3496.1	3444.7	3369.3	3338.4	3287.0	3280.1	3273.3	3259.6
10°	3787.4	3739.4	3677.7	3571.5	3509.8	3451.5	3400.1	3328.1	3311.0	3314.4
12.5°	4047.9	3972.5	3838.8	3746.3	3667.5	3592.1	3516.6	3410.4	3386.4	3396.7
15°	4233.0	4137.0	4003.4	3969.1	3862.8	3770.3	3646.9	3526.9	3485.8	3475.5
17.5°	4383.8	4305.0	4226.1	4174.7	4089.0	3975.9	3804.6	3667.5	3574.9	3564.6
20°	4507.2	4404.4	4387.2	4418.1	4311.8	4236.4	4027.4	3859.4	3736.0	3684.6
22.5°	4582.6	4517.5	4565.5	4592.9	4586.0	4459.2	4243.3	4047.9	3893.7	3845.7
25°	4664.9	4589.5	4760.8	4853.4	4877.4	4668.3	4500.3	4243.3	4092.5	4061.6
27.5°	4706.0	4733.4	4932.2	5127.6	5110.5	4949.4	4723.1	4493.5	4373.5	4318.7
30°	4826.0	4870.5	5172.1	5391.5	5394.9	5237.3	5065.9	4805.4	4671.7	4647.7
32.5°	5041.9	5096.7	5418.9	5652.0	5693.1	5573.2	5401.8	5240.7	5103.6	5048.8
35°	5206.4	5347.0	5710.3	5922.8	6032.5	5960.5	5864.5	5696.6	5552.6	5504.6
37.5°	5442.9	5638.3	5987.9	6275.8	6399.2	6392.3	6320.4	6138.7	6018.7	5977.6
40°	5782.2	5977.6	6296.4	6676.8	6906.5	6896.2	6855.1	6714.5	6536.3	6515.7
42.5°	6142.1	6303.2	6718.0	7153.3	7482.3	7448.0	7338.3	7173.8	7050.4	7023.0
45°	6491.7	6742.0	7125.8	7684.5	7931.3	8017.0	7886.8	7605.7	7465.2	7448.0
47.5°	6930.5	7129.3	7609.1	8109.5	8476.3	8490.0	8267.2	8006.7	7749.7	7804.5
50°	7321.2	7585.1	8071.8	8620.2	9059.0	8901.3	8616.8	8291.2	8106.1	8034.1
52.5°	7739.4	8061.6	8627.1	9185.8	9429.1	9271.5	8808.8	8445.4	8164.4	8133.5
55°	8349.5	8517.4	9257.8	9686.2	9765.0	9432.6	8750.5	8236.4	7873.0	7783.9
57.5°	8969.9	9165.2	9813.0	10183.2	10100.9	9343.5	8373.5	7578.3	7101.8	6975.0
60°	9597.1	9837.0	10382.0	10721.3	10296.3	8729.9	7307.5	6282.7	5727.4	5614.3
62.5°	10296.3	10608.2	11094.9	11214.9	9717.1	7516.6	5799.4	4534.6	3972.5	3784.0
65°	10916.7	11235.5	11835.3	11112.1	8486.6	5607.4	3749.7	2591.2	2176.5	2025.7
67.5°	11427.4	11787.3	12082.1	9833.6	6214.1	3283.6	1953.7	1364.2	1209.9	1155.1
70°	11831.8	12431.7	11053.8	7228.7	3550.9	1600.7	1055.7	898.0	877.4	863.7
72.5°	11478.8	11400.0	8253.5	4171.3	1556.1	880.9	764.3	740.3	736.9	740.3
75°	9388.0	8373.5	4935.6	1813.2	781.5	637.5	634.1	623.8	640.9	640.9
77.5°	4555.2	3982.8	2063.4	778.0	514.1	500.4	517.6	517.6	517.6	517.6
80°	1055.7	1168.8	736.9	473.0	373.6	373.6	411.3	414.7	397.6	390.7
82.5°	359.9	479.9	404.4	298.2	246.8	277.6	311.9	318.8	263.9	267.3
85°	178.2	281.1	219.4	171.4	126.8	171.4	202.2	212.5	181.7	174.8
87.5°	82.3	123.4	82.3	58.3	44.6	61.7	58.3	48.0	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)