

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: P481377

Luminaire Tested: **IFLD-M-SA4D-760-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481377  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

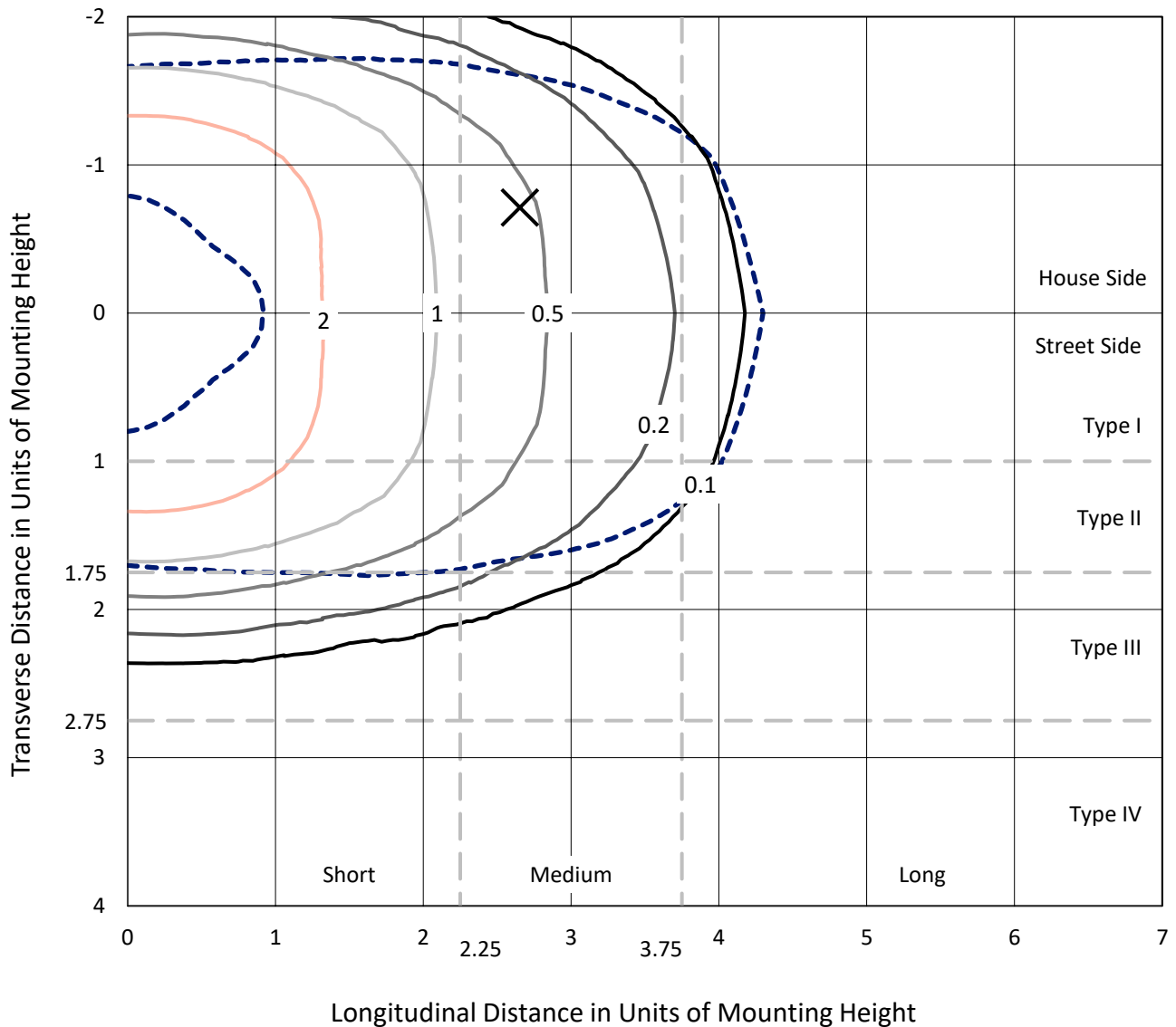
Lumens per Lamp: N/A  
Luminaire Lumens: 32961.2 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

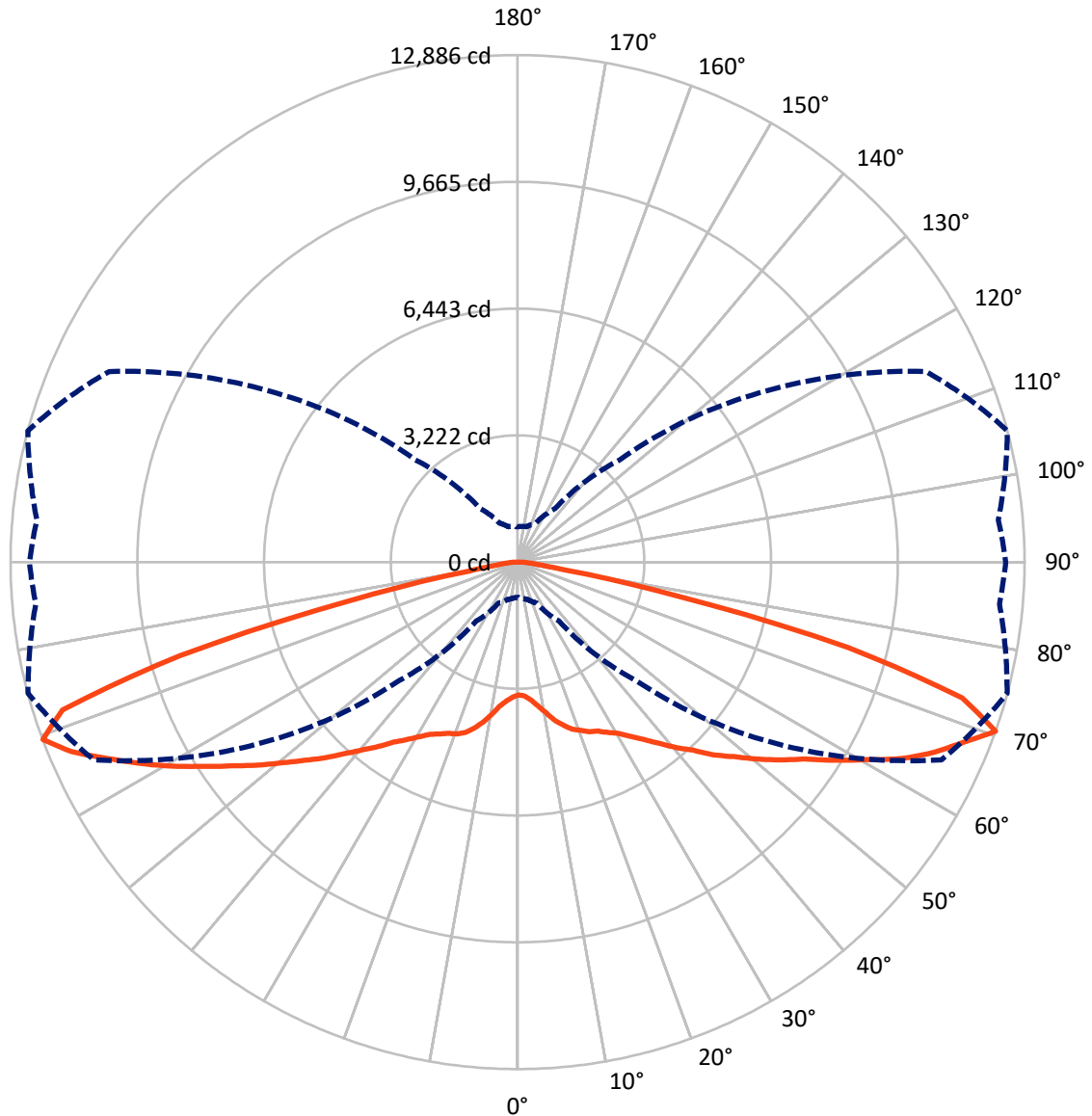
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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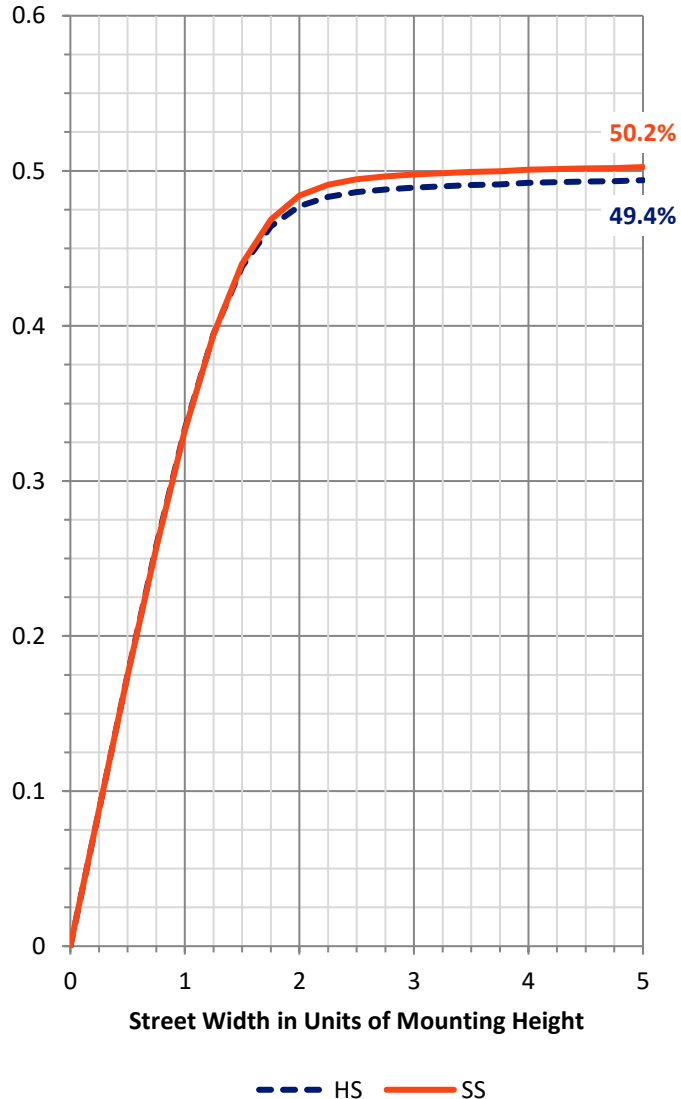
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16363.4	0.0	16363.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	16597.9	0.0	16597.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	32961.2	0.0	32961.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.9	1.0
10°-20°	1143.9	3.5
20°-30°	2214.9	6.7
30°-40°	3746.3	11.4
40°-50°	5976.5	18.1
50°-60°	8180.6	24.8
60°-70°	7710.7	23.4
70°-80°	3396.8	10.3
80°-90°	255.6	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°	32961.2	100.0
0°-180°	32961.2	100.0

**Coefficient of Utilization**



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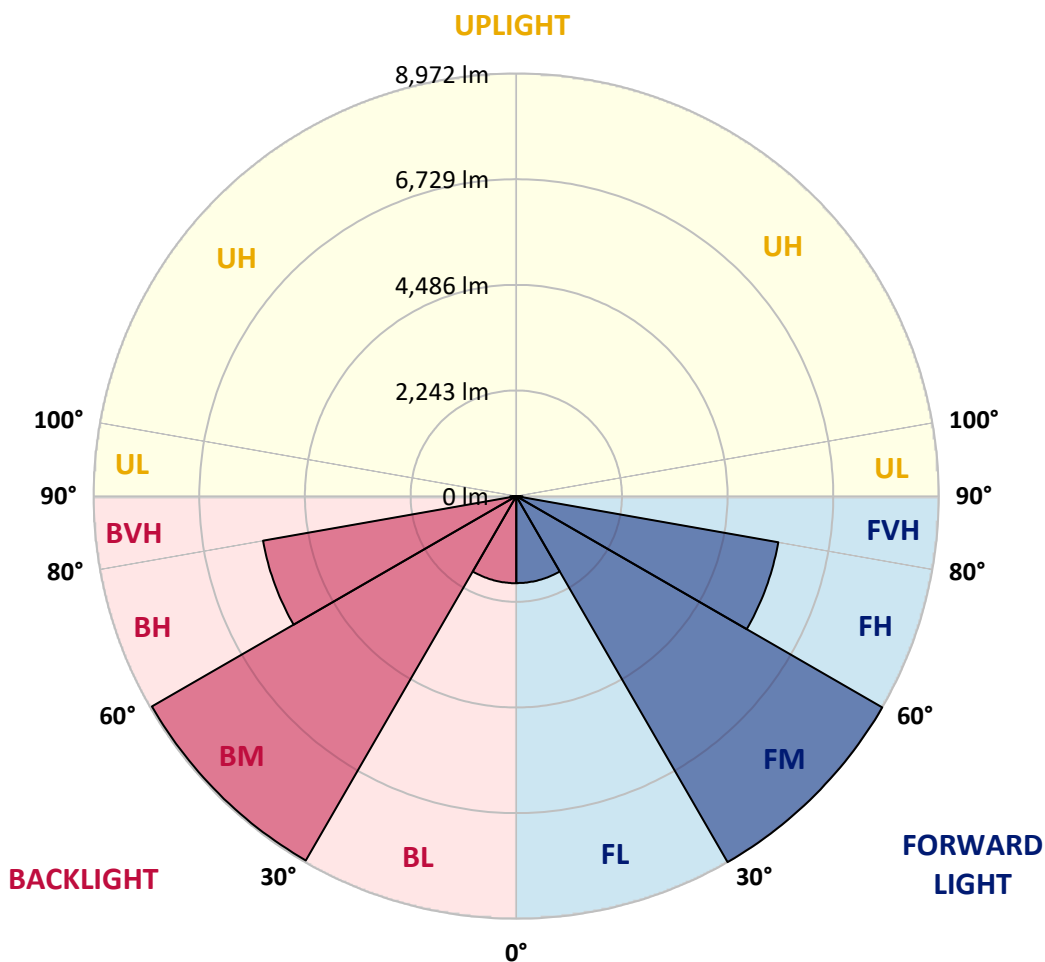
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.4	5.6			
FM (30°-60°)	8971.8	27.2			
FH (60°-80°)	5649.2	17.1			G3/7500
FVH (80°-90°)	130.6	0.4			G2/225
BL (0°-30°)	1848.4	5.6	B3/2500		
BM (30°-60°)	8931.7	27.1	B5		
BH (60°-80°)	5458.3	16.6	B5		G5
BVH (80°-90°)	125.0	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°	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2
2.5°	3353.9	3353.9	3350.3	3368.1	3385.9	3393.0	3407.2	3410.7	3432.0	3414.3	3449.8
5°	3343.2	3339.7	3368.1	3410.7	3410.7	3456.9	3485.3	3524.4	3535.1	3556.4	3563.5
7.5°	3417.8	3410.7	3396.5	3442.7	3481.8	3552.8	3591.9	3659.4	3684.3	3712.7	3744.7
10°	3464.0	3464.0	3449.8	3531.5	3567.0	3663.0	3748.2	3815.7	3911.7	3943.6	3947.2
12.5°	3471.1	3481.8	3524.4	3631.0	3730.5	3854.8	3918.8	4046.7	4142.6	4203.0	4224.3
15°	3577.7	3556.4	3602.6	3748.2	3893.9	4004.0	4117.7	4210.1	4348.7	4426.8	4476.6
17.5°	3673.6	3652.3	3737.6	3911.7	4060.9	4231.4	4330.9	4430.4	4529.9	4600.9	4604.5
20°	3826.4	3844.2	3918.8	4107.1	4302.5	4451.7	4565.4	4583.2	4632.9	4735.9	4718.2
22.5°	4014.7	4000.5	4156.8	4362.9	4576.1	4700.4	4764.4	4718.2	4693.3	4803.4	4828.3
25°	4203.0	4245.6	4387.8	4579.6	4835.4	5002.4	5020.2	4892.3	4799.9	4839.0	4828.3
27.5°	4490.8	4497.9	4647.1	4874.5	5133.9	5279.5	5268.9	5087.7	4910.0	4913.6	4920.7
30°	4860.3	4824.8	4988.2	5194.2	5450.1	5581.5	5599.3	5339.9	5101.9	5030.8	5048.6
32.5°	5215.6	5258.2	5400.3	5634.8	5823.1	5897.7	5858.6	5627.7	5318.6	5222.7	5233.3
35°	5670.3	5663.2	5858.6	6057.6	6199.7	6213.9	6181.9	5844.4	5553.1	5428.7	5379.0
37.5°	6157.1	6221.0	6348.9	6512.4	6661.6	6668.7	6494.6	6224.6	5865.7	5659.7	5720.1
40°	6700.7	6771.7	6864.1	7102.1	7212.3	7098.6	6920.9	6555.0	6181.9	6000.7	6029.2
42.5°	7180.3	7212.3	7400.6	7681.2	7734.5	7684.8	7421.9	6977.8	6544.3	6345.4	6359.6
45°	7620.8	7663.5	7908.6	8160.9	8285.2	8199.9	7894.4	7471.6	6967.1	6796.6	6729.1
47.5°	8025.9	8111.1	8349.2	8608.5	8800.4	8807.5	8430.9	7919.3	7386.3	7162.5	7159.0
50°	8299.4	8423.8	8658.3	8953.2	9233.8	9344.0	8967.4	8416.7	7844.7	7606.6	7581.8
52.5°	8448.6	8576.6	8811.0	9269.4	9582.0	9752.5	9574.9	8882.1	8381.1	8132.4	8093.4
55°	8267.5	8352.7	8736.4	9379.5	9862.7	10143.4	10026.1	9525.2	8914.1	8711.6	8747.1
57.5°	7496.5	7674.1	8146.7	8949.6	9855.6	10544.8	10534.2	10132.7	9528.7	9336.9	9344.0
60°	6171.3	6320.5	6903.2	8025.9	9457.7	10708.3	11084.9	10722.5	10218.0	9994.1	9987.0
62.5°	4355.8	4544.1	5219.1	6444.8	8285.2	10480.9	11717.3	11465.0	10893.0	10729.6	10790.0
65°	2437.2	2550.9	3176.2	4284.7	6313.4	9230.3	11830.9	12236.0	11578.7	11330.0	11340.7
67.5°	1303.9	1346.5	1637.9	2248.9	3861.9	7116.3	10683.4	12680.1	12321.2	11891.3	11823.8
70°	895.3	909.5	984.1	1151.1	1826.2	4256.3	8057.8	11887.8	12879.0	12292.8	12406.5
72.5°	756.8	749.6	767.4	785.2	955.7	1904.3	4728.8	9148.6	12157.8	11937.5	11894.9
75°	657.3	653.7	660.8	643.1	664.4	838.5	2092.6	5702.3	8899.9	9933.7	10093.6
77.5°	543.6	547.1	550.7	532.9	525.8	554.2	842.0	2504.8	4380.6	4835.4	5215.6
80°	412.1	419.2	447.7	429.9	401.5	405.0	497.4	838.5	1257.7	1140.5	1176.0
82.5°	280.7	284.2	344.6	323.3	302.0	273.6	319.8	433.4	490.3	373.0	326.9
85°	199.0	195.4	223.8	206.1	191.9	138.6	191.9	245.1	294.9	184.7	167.0
87.5°	46.2	46.2	92.4	74.6	71.1	56.8	74.6	95.9	127.9	81.7	74.6
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°	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2	3375.2
2.5°	3439.1	3407.2	3407.2	3400.1	3371.6	3364.5	3339.7	3346.8	3329.0	3311.2
5°	3559.9	3517.3	3517.3	3456.9	3400.1	3393.0	3364.5	3364.5	3336.1	3343.2
7.5°	3726.9	3687.8	3623.9	3570.6	3492.4	3460.5	3407.2	3400.1	3393.0	3378.7
10°	3925.9	3876.1	3812.2	3702.1	3638.1	3577.7	3524.4	3449.8	3432.0	3435.6
12.5°	4195.9	4117.7	3979.2	3883.3	3801.5	3723.4	3645.2	3535.1	3510.2	3520.9
15°	4387.8	4288.3	4149.7	4114.2	4004.0	3908.1	3780.2	3655.9	3613.2	3602.6
17.5°	4544.1	4462.4	4380.6	4327.4	4238.5	4121.3	3943.6	3801.5	3705.6	3695.0
20°	4672.0	4565.4	4547.6	4579.6	4469.5	4391.3	4174.6	4000.5	3872.6	3819.3
22.5°	4750.1	4682.6	4732.4	4760.8	4753.7	4622.2	4398.4	4195.9	4036.0	3986.3
25°	4835.4	4757.2	4934.9	5030.8	5055.7	4839.0	4664.9	4398.4	4242.1	4210.1
27.5°	4878.0	4906.5	5112.5	5315.0	5297.3	5130.3	4895.8	4657.8	4533.4	4476.6
30°	5002.4	5048.6	5361.2	5588.6	5592.2	5428.7	5251.1	4981.1	4842.5	4817.6
32.5°	5226.2	5283.1	5617.0	5858.6	5901.3	5776.9	5599.3	5432.3	5290.2	5233.3
35°	5396.8	5542.4	5919.0	6139.3	6253.0	6178.4	6078.9	5904.8	5755.6	5705.9
37.5°	5641.9	5844.4	6206.8	6505.2	6633.1	6626.0	6551.4	6363.1	6238.8	6196.1
40°	5993.6	6196.1	6526.6	6920.9	7159.0	7148.3	7105.7	6960.0	6775.3	6753.9
42.5°	6366.7	6533.7	6963.6	7414.8	7755.8	7720.3	7606.6	7436.1	7308.2	7279.8
45°	6729.1	6988.4	7386.3	7965.5	8221.3	8310.1	8175.1	7883.7	7738.1	7720.3
47.5°	7183.8	7389.9	7887.3	8406.0	8786.2	8800.4	8569.4	8299.4	8033.0	8089.8
50°	7588.9	7862.4	8366.9	8935.4	9390.2	9226.7	8931.8	8594.3	8402.5	8327.9
52.5°	8022.3	8356.3	8942.5	9521.6	9773.9	9610.4	9130.8	8754.2	8462.9	8430.9
55°	8654.7	8828.8	9596.2	10040.3	10122.0	9777.4	9070.4	8537.5	8160.9	8068.5
57.5°	9297.8	9500.3	10171.8	10555.5	10470.2	9685.0	8679.6	7855.3	7361.5	7230.0
60°	9947.9	10196.6	10761.5	11113.3	10672.7	9049.1	7574.6	6512.4	5936.8	5819.5
62.5°	10672.7	10996.0	11500.5	11624.9	10072.3	7791.4	6011.4	4700.4	4117.7	3922.3
65°	11315.8	11646.2	12267.9	11518.3	8796.8	5812.4	3886.8	2685.9	2256.1	2099.7
67.5°	11845.2	12218.2	12523.8	10193.1	6441.3	3403.6	2025.1	1414.0	1254.2	1197.3
70°	12264.4	12886.1	11457.9	7492.9	3680.7	1659.2	1094.3	930.8	909.5	895.3
72.5°	11898.5	11816.7	8555.2	4323.8	1613.0	913.1	792.3	767.4	763.9	767.4
75°	9731.2	8679.6	5116.1	1879.5	810.0	660.8	657.3	646.6	664.4	664.4
77.5°	4721.7	4128.4	2138.8	806.5	532.9	518.7	536.5	536.5	536.5	536.5
80°	1094.3	1211.5	763.9	490.3	387.3	387.3	426.3	429.9	412.1	405.0
82.5°	373.0	497.4	419.2	309.1	255.8	287.8	323.3	330.4	273.6	277.1
85°	184.7	291.3	227.4	177.6	131.5	177.6	209.6	220.3	188.3	181.2
87.5°	85.3	127.9	85.3	60.4	46.2	64.0	60.4	49.7	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)