

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: P481299

Luminaire Tested: **IFLD-M-SA4D-740-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481299  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

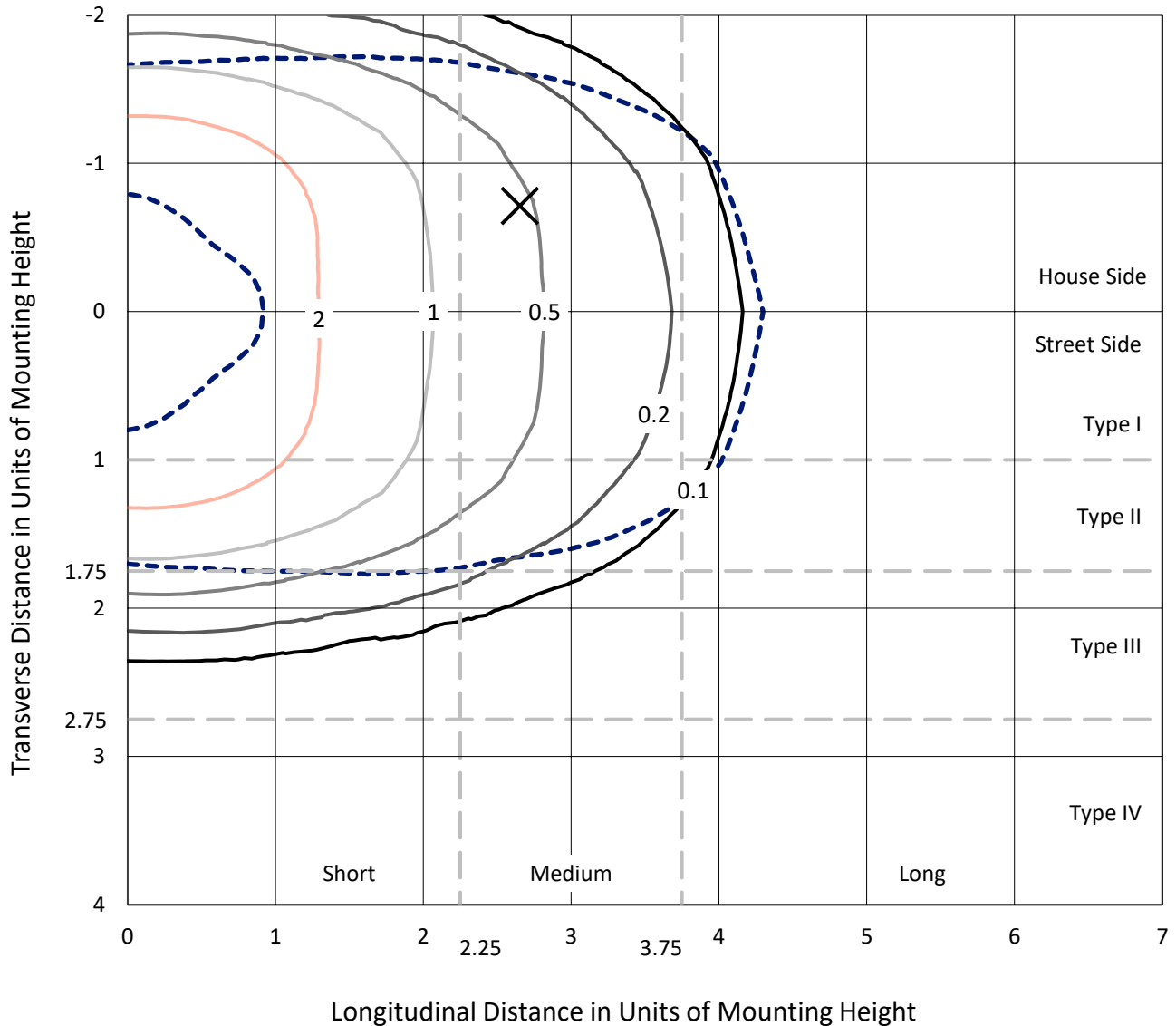
Lumens per Lamp: N/A  
Luminaire Lumens: 32223.3 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

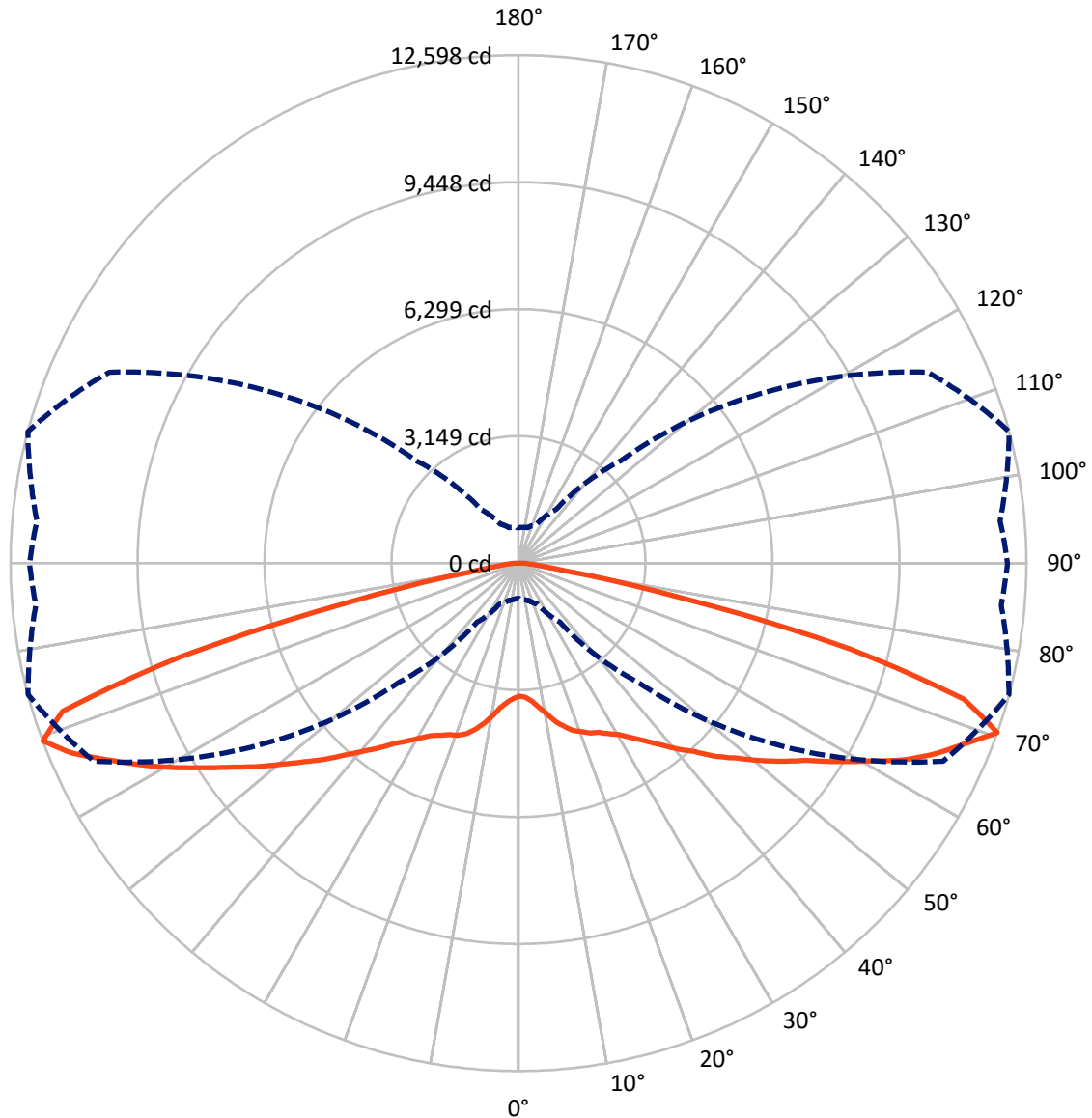
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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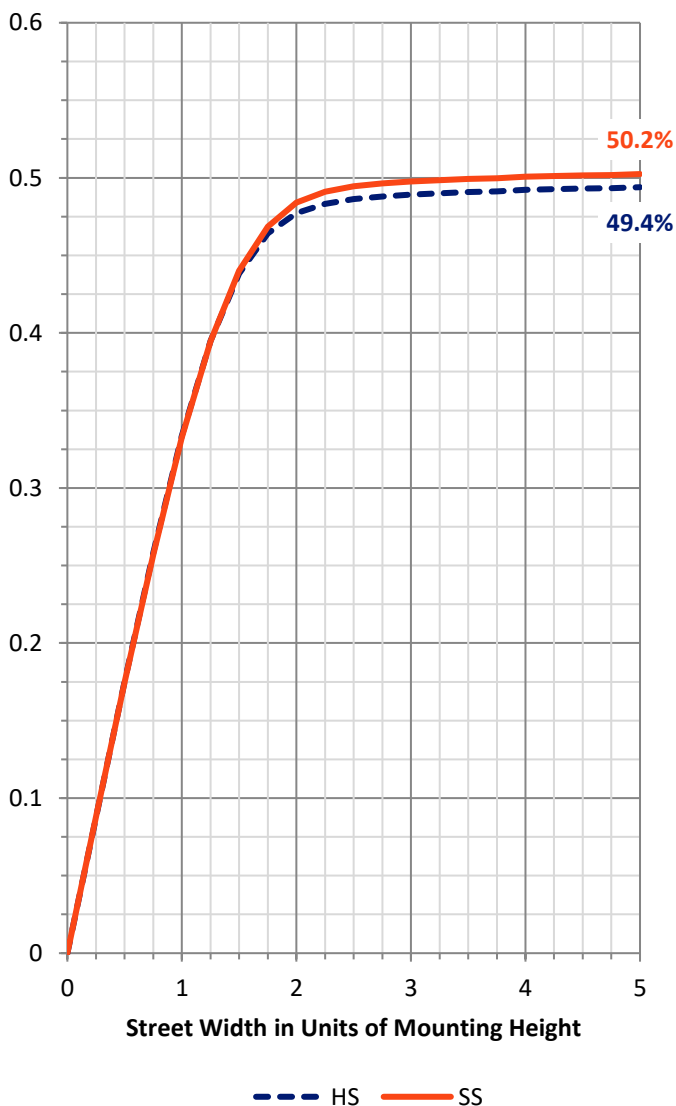
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15997.0	0.0	15997.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	16226.3	0.0	16226.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	32223.3	0.0	32223.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.4	1.0
10°-20°	1118.3	3.5
20°-30°	2165.3	6.7
30°-40°	3662.5	11.4
40°-50°	5842.7	18.1
50°-60°	7997.4	24.8
60°-70°	7538.1	23.4
70°-80°	3320.8	10.3
80°-90°	249.9	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°	32223.3	100.0
0°-180°	32223.3	100.0

**Coefficient of Utilization**



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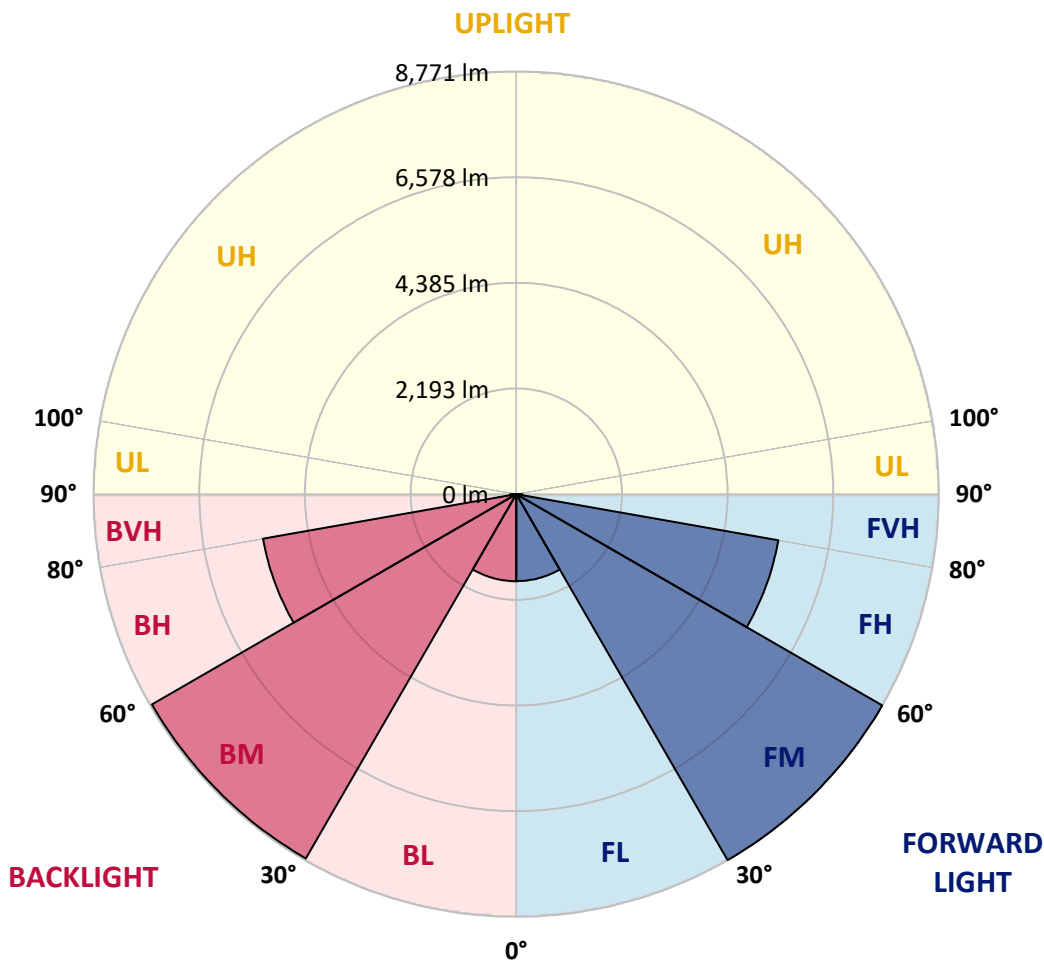
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.0	5.6			
FM (30°-60°)	8770.9	27.2			
FH (60°-80°)	5522.7	17.1			G3/7500
FVH (80°-90°)	127.6	0.4			G2/225
BL (0°-30°)	1807.0	5.6	B3/2500		
BM (30°-60°)	8731.7	27.1	B5		
BH (60°-80°)	5336.1	16.6	B5		G5
BVH (80°-90°)	122.2	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°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3278.8	3278.8	3275.3	3292.7	3310.1	3317.0	3330.9	3334.4	3355.2	3337.8	3372.6
5°	3268.4	3264.9	3292.7	3334.4	3334.4	3379.5	3407.3	3445.5	3455.9	3476.8	3483.7
7.5°	3341.3	3334.4	3320.5	3365.6	3403.8	3473.3	3511.5	3577.5	3601.8	3629.6	3660.9
10°	3386.5	3386.5	3372.6	3452.5	3487.2	3581.0	3664.3	3730.3	3824.1	3855.4	3858.8
12.5°	3393.4	3403.8	3445.5	3549.7	3647.0	3768.5	3831.0	3956.1	4049.9	4108.9	4129.8
15°	3497.6	3476.8	3521.9	3664.3	3806.7	3914.4	4025.6	4115.9	4251.3	4327.7	4376.4
17.5°	3591.4	3570.6	3653.9	3824.1	3970.0	4136.7	4234.0	4331.2	4428.5	4497.9	4501.4
20°	3740.7	3758.1	3831.0	4015.1	4206.2	4352.0	4463.2	4480.6	4529.2	4629.9	4612.5
22.5°	3924.8	3910.9	4063.8	4265.2	4473.6	4595.2	4657.7	4612.5	4588.2	4695.9	4720.2
25°	4108.9	4150.6	4289.5	4477.1	4727.2	4890.4	4907.8	4782.7	4692.4	4730.6	4720.2
27.5°	4390.3	4397.2	4543.1	4765.4	5018.9	5161.3	5150.9	4973.8	4800.1	4803.6	4810.5
30°	4751.5	4716.7	4876.5	5078.0	5328.0	5456.6	5473.9	5220.4	4987.7	4918.2	4935.6
32.5°	5098.8	5140.5	5279.4	5508.7	5692.7	5765.7	5727.5	5501.7	5199.5	5105.7	5116.2
35°	5543.4	5536.4	5727.5	5922.0	6060.9	6074.8	6043.5	5713.6	5428.8	5307.2	5258.6
37.5°	6019.2	6081.7	6206.8	6366.6	6512.4	6519.4	6349.2	6085.2	5734.4	5533.0	5592.0
40°	6550.6	6620.1	6710.4	6943.1	7050.8	6939.7	6766.0	6408.2	6043.5	5866.4	5894.2
42.5°	7019.5	7050.8	7234.9	7509.3	7561.4	7512.7	7255.7	6821.6	6397.8	6203.3	6217.2
45°	7450.2	7491.9	7731.6	7978.2	8099.7	8016.4	7717.7	7304.3	6811.1	6644.4	6578.4
47.5°	7846.2	7929.5	8162.3	8415.8	8603.4	8610.3	8242.1	7742.0	7221.0	7002.2	6998.7
50°	8113.6	8235.2	8464.4	8752.7	9027.1	9134.8	8766.6	8228.2	7669.0	7436.3	7412.0
52.5°	8259.5	8384.5	8613.8	9061.8	9367.5	9534.2	9360.5	8683.2	8193.5	7950.4	7912.2
55°	8082.4	8165.7	8540.8	9169.5	9641.9	9916.3	9801.7	9311.9	8714.5	8516.5	8551.3
57.5°	7328.7	7502.3	7964.3	8749.2	9634.9	10308.8	10298.3	9905.8	9315.4	9127.8	9134.8
60°	6033.1	6179.0	6748.6	7846.2	9245.9	10468.5	10836.7	10482.4	9989.2	9770.4	9763.4
62.5°	4258.3	4442.3	5102.3	6300.6	8099.7	10246.2	11454.9	11208.3	10649.1	10489.4	10548.4
65°	2382.7	2493.8	3105.1	4188.8	6172.1	9023.6	11566.1	11962.0	11319.5	11076.4	11086.8
67.5°	1274.7	1316.4	1601.2	2198.6	3775.5	6957.0	10444.2	12396.2	12045.4	11625.1	11559.1
70°	875.3	889.2	962.1	1125.3	1785.3	4161.0	7877.4	11621.7	12590.7	12017.6	12128.8
72.5°	739.8	732.9	750.2	767.6	934.3	1861.7	4623.0	8943.7	11885.6	11670.3	11628.6
75°	642.6	639.1	646.0	628.7	649.5	819.7	2045.8	5574.6	8700.6	9711.3	9867.6
77.5°	531.4	534.9	538.4	521.0	514.0	541.8	823.2	2448.7	4282.6	4727.2	5098.8
80°	402.9	409.8	437.6	420.3	392.5	396.0	486.3	819.7	1229.5	1114.9	1149.7
82.5°	274.4	277.9	336.9	316.1	295.2	267.4	312.6	423.7	479.3	364.7	319.5
85°	194.5	191.0	218.8	201.5	187.6	135.5	187.6	239.7	288.3	180.6	163.2
87.5°	45.2	45.2	90.3	72.9	69.5	55.6	72.9	93.8	125.0	79.9	72.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3362.2	3330.9	3330.9	3323.9	3296.2	3289.2	3264.9	3271.8	3254.5	3237.1
5°	3480.2	3438.6	3438.6	3379.5	3323.9	3317.0	3289.2	3289.2	3261.4	3268.4
7.5°	3643.5	3605.3	3542.8	3490.7	3414.3	3383.0	3330.9	3323.9	3317.0	3303.1
10°	3838.0	3789.4	3726.8	3619.2	3556.7	3497.6	3445.5	3372.6	3355.2	3358.7
12.5°	4102.0	4025.6	3890.1	3796.3	3716.4	3640.0	3563.6	3455.9	3431.6	3442.0
15°	4289.5	4192.3	4056.8	4022.1	3914.4	3820.6	3695.6	3574.0	3532.3	3521.9
17.5°	4442.3	4362.5	4282.6	4230.5	4143.6	4029.0	3855.4	3716.4	3622.7	3612.2
20°	4567.4	4463.2	4445.8	4477.1	4369.4	4293.0	4081.1	3910.9	3785.9	3733.8
22.5°	4643.8	4577.8	4626.4	4654.2	4647.3	4518.8	4299.9	4102.0	3945.7	3897.0
25°	4727.2	4650.7	4824.4	4918.2	4942.5	4730.6	4560.4	4299.9	4147.1	4115.9
27.5°	4768.8	4796.6	4998.1	5196.1	5178.7	5015.4	4786.2	4553.5	4431.9	4376.4
30°	4890.4	4935.6	5241.2	5463.5	5467.0	5307.2	5133.5	4869.6	4734.1	4709.8
32.5°	5109.2	5164.8	5491.3	5727.5	5769.1	5647.6	5473.9	5310.7	5171.7	5116.2
35°	5275.9	5418.3	5786.5	6001.9	6113.0	6040.1	5942.8	5772.6	5626.7	5578.1
37.5°	5515.6	5713.6	6067.9	6359.6	6484.6	6477.7	6404.8	6220.7	6099.1	6057.4
40°	5859.5	6057.4	6380.5	6766.0	6998.7	6988.3	6946.6	6804.2	6623.6	6602.7
42.5°	6224.2	6387.4	6807.7	7248.8	7582.2	7547.5	7436.3	7269.6	7144.6	7116.8
45°	6578.4	6832.0	7221.0	7787.1	8037.2	8124.0	7992.1	7707.3	7564.8	7547.5
47.5°	7023.0	7224.5	7710.7	8217.8	8589.5	8603.4	8377.6	8113.6	7853.1	7908.7
50°	7419.0	7686.4	8179.6	8735.3	9179.9	9020.2	8731.9	8401.9	8214.4	8141.4
52.5°	7842.7	8169.2	8742.3	9308.4	9555.0	9395.3	8926.4	8558.2	8273.4	8242.1
55°	8461.0	8631.1	9381.4	9815.5	9895.4	9558.5	8867.3	8346.3	7978.2	7887.9
57.5°	9089.6	9287.6	9944.1	10319.2	10235.8	9468.2	8485.3	7679.5	7196.7	7068.2
60°	9725.2	9968.4	10520.6	10864.5	10433.8	8846.5	7405.1	6366.6	5803.9	5689.3
62.5°	10433.8	10749.9	11243.1	11364.6	9846.8	7616.9	5876.8	4595.2	4025.6	3834.5
65°	11062.5	11385.5	11993.3	11260.4	8599.9	5682.3	3799.8	2625.8	2205.5	2052.7
67.5°	11580.0	11944.7	12243.4	9964.9	6297.1	3327.4	1979.8	1382.4	1226.1	1170.5
70°	11989.8	12597.7	11201.4	7325.2	3598.3	1622.0	1069.8	910.0	889.2	875.3
72.5°	11632.1	11552.2	8363.7	4227.0	1576.9	892.6	774.5	750.2	746.8	750.2
75°	9513.4	8485.3	5001.6	1837.4	791.9	646.0	642.6	632.1	649.5	649.5
77.5°	4616.0	4036.0	2090.9	788.4	521.0	507.1	524.5	524.5	524.5	524.5
80°	1069.8	1184.4	746.8	479.3	378.6	378.6	416.8	420.3	402.9	396.0
82.5°	364.7	486.3	409.8	302.2	250.1	281.3	316.1	323.0	267.4	270.9
85°	180.6	284.8	222.3	173.7	128.5	173.7	204.9	215.3	184.1	177.1
87.5°	83.4	125.0	83.4	59.0	45.2	62.5	59.0	48.6	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)