

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: P481149

Luminaire Tested: **IFLD-L-SA7E-722-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481149  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

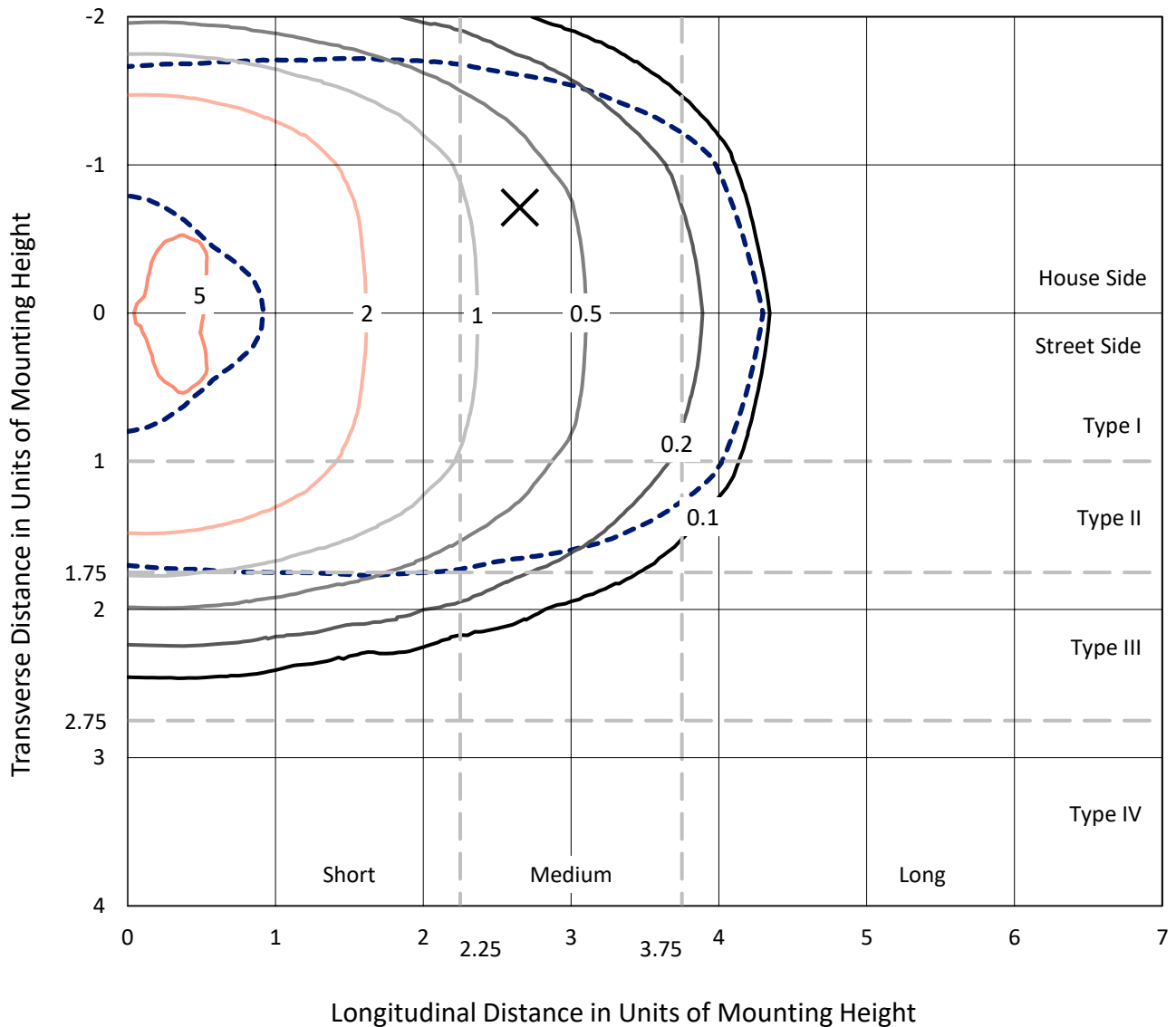
Lumens per Lamp: N/A  
Luminaire Lumens: 42830.7 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7  
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

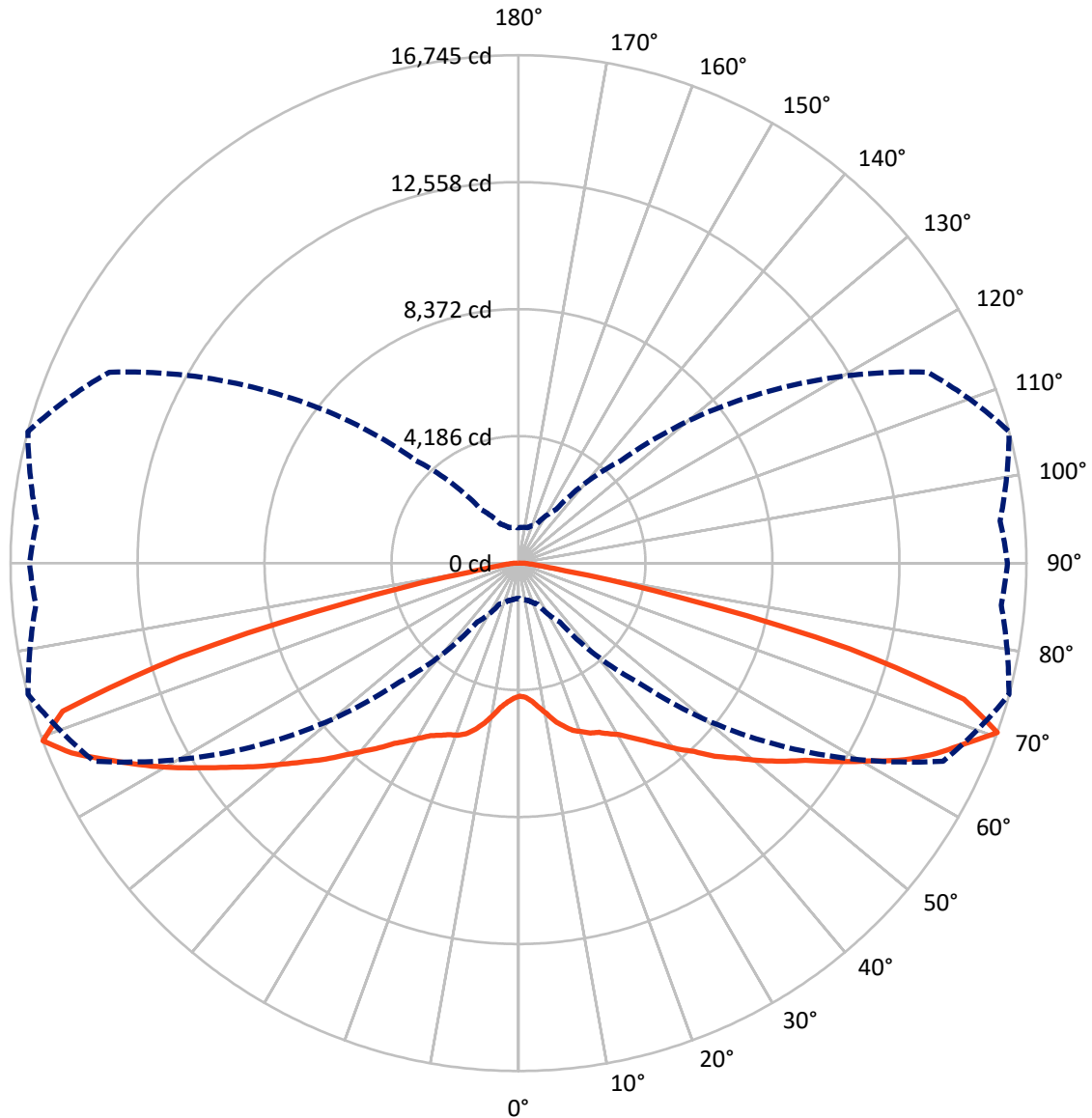
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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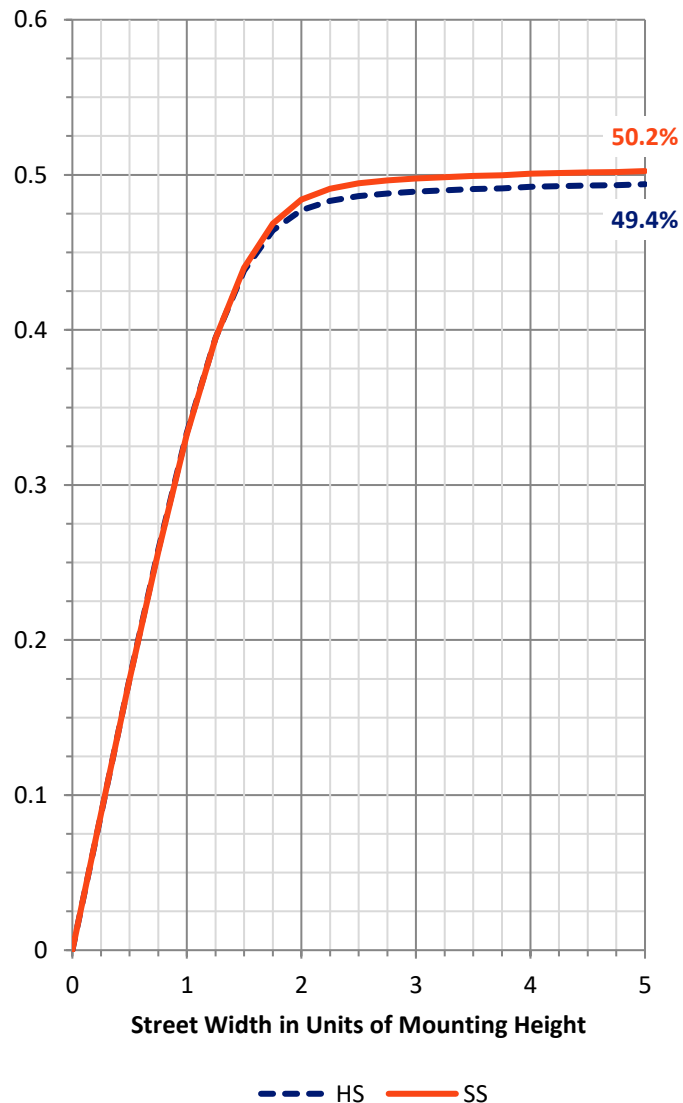
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21263.0	0.0	21263.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	21567.7	0.0	21567.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	42830.7	0.0	42830.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.5	1.0
10°-20°	1486.4	3.5
20°-30°	2878.1	6.7
30°-40°	4868.1	11.4
40°-50°	7766.1	18.1
50°-60°	10630.0	24.8
60°-70°	10019.5	23.4
70°-80°	4413.9	10.3
80°-90°	332.1	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°	42830.7	100.0
0°-180°	42830.7	100.0

**Coefficient of Utilization**



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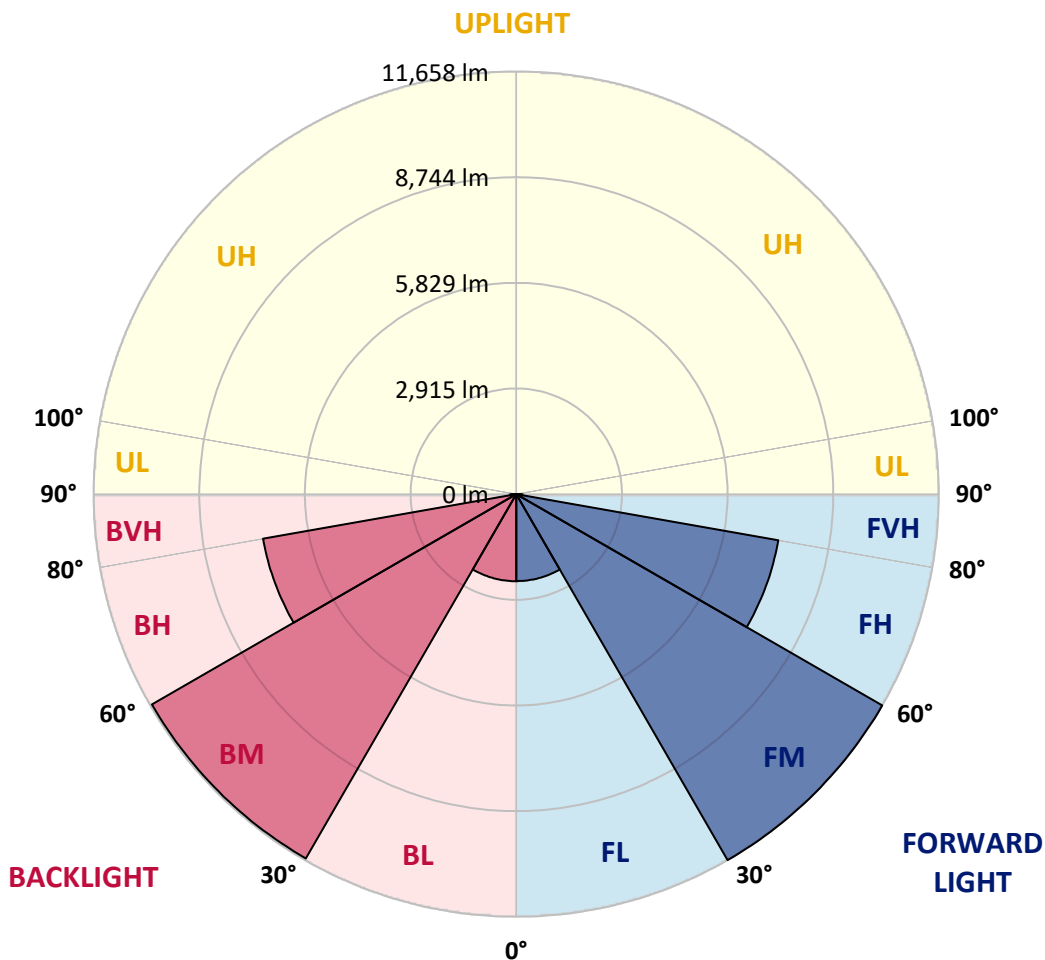
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2399.2	5.6			
FM (30°-60°)	11658.1	27.2			
FH (60°-80°)	7340.7	17.1			G3/7500
FVH (80°-90°)	169.6	0.4			G2/225
BL (0°-30°)	2401.8	5.6	B3/2500		
BM (30°-60°)	11606.0	27.1	B5		
BH (60°-80°)	7092.7	16.6	B5		G5
BVH (80°-90°)	162.5	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°	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8
2.5°	4358.1	4358.1	4353.5	4376.6	4399.7	4408.9	4427.4	4432.0	4459.7	4436.6	4482.8
5°	4344.3	4339.7	4376.6	4432.0	4432.0	4492.0	4528.9	4579.7	4593.6	4621.3	4630.5
7.5°	4441.2	4432.0	4413.5	4473.5	4524.3	4616.7	4667.4	4755.2	4787.5	4824.4	4866.0
10°	4501.2	4501.2	4482.8	4589.0	4635.1	4759.8	4870.6	4958.3	5082.9	5124.5	5129.1
12.5°	4510.5	4524.3	4579.7	4718.2	4847.5	5009.1	5092.2	5258.4	5383.0	5461.5	5489.2
15°	4649.0	4621.3	4681.3	4870.6	5059.9	5203.0	5350.7	5470.7	5650.8	5752.4	5817.0
17.5°	4773.6	4745.9	4856.7	5082.9	5276.8	5498.4	5627.7	5757.0	5886.2	5978.6	5983.2
20°	4972.1	4995.2	5092.2	5336.9	5590.8	5784.7	5932.4	5955.5	6020.1	6154.0	6130.9
22.5°	5216.8	5198.4	5401.5	5669.3	5946.3	6107.8	6190.9	6130.9	6098.6	6241.7	6274.0
25°	5461.5	5516.9	5701.6	5950.9	6283.3	6500.3	6523.3	6357.1	6237.1	6287.9	6274.0
27.5°	5835.5	5844.7	6038.6	6334.1	6671.1	6860.4	6846.5	6611.1	6380.2	6384.8	6394.1
30°	6315.6	6269.4	6481.8	6749.6	7082.0	7252.8	7275.9	6938.8	6629.5	6537.2	6560.3
32.5°	6777.3	6832.7	7017.3	7322.0	7566.7	7663.7	7612.9	7312.8	6911.1	6786.5	6800.3
35°	7368.2	7359.0	7612.9	7871.4	8056.1	8074.5	8033.0	7594.4	7215.8	7054.3	6989.6
37.5°	8000.7	8083.8	8250.0	8462.3	8656.2	8665.5	8439.2	8088.4	7622.1	7354.3	7432.8
40°	8707.0	8799.3	8919.4	9228.7	9371.8	9224.1	8993.2	8517.7	8033.0	7797.5	7834.5
42.5°	9330.3	9371.8	9616.5	9981.2	10050.5	9985.8	9644.2	9067.1	8503.9	8245.3	8263.8
45°	9902.7	9958.1	10276.7	10604.5	10766.0	10655.2	10258.2	9708.8	9053.3	8831.7	8743.9
47.5°	10429.0	10539.8	10849.1	11186.2	11435.5	11444.7	10955.3	10290.5	9598.0	9307.2	9302.6
50°	10784.5	10946.1	11250.8	11634.0	11998.7	12141.8	11652.4	10936.9	10193.6	9884.3	9851.9
52.5°	10978.4	11144.6	11449.3	12044.9	12451.1	12672.7	12441.9	11541.6	10890.7	10567.5	10516.7
55°	10743.0	10853.8	11352.4	12188.0	12815.8	13180.6	13028.2	12377.3	11583.2	11320.0	11366.2
57.5°	9741.1	9972.0	10586.0	11629.4	12806.6	13702.2	13688.4	13166.7	12381.9	12132.6	12141.8
60°	8019.1	8213.0	8970.2	10429.0	12289.5	13914.6	14404.0	13933.1	13277.5	12986.7	12977.4
62.5°	5660.0	5904.7	6781.9	8374.6	10766.0	13619.1	15225.7	14898.0	14154.7	13942.3	14020.8
65°	3167.0	3314.8	4127.3	5567.7	8203.8	11994.1	15373.5	15899.8	15045.7	14722.5	14736.4
67.5°	1694.3	1749.7	2128.3	2922.3	5018.3	9247.2	13882.3	16476.8	16010.6	15452.0	15364.2
70°	1163.4	1181.9	1278.8	1495.8	2373.0	5530.8	10470.6	15447.3	16735.4	15973.6	16121.4
72.5°	983.3	974.1	997.2	1020.3	1241.9	2474.5	6144.8	11887.9	15798.2	15512.0	15456.6
75°	854.1	849.5	858.7	835.6	863.3	1089.5	2719.2	7409.7	11564.7	12908.2	13115.9
77.5°	706.3	711.0	715.6	692.5	683.3	720.2	1094.1	3254.7	5692.3	6283.3	6777.3
80°	535.5	544.8	581.7	558.6	521.7	526.3	646.3	1089.5	1634.3	1481.9	1528.1
82.5°	364.7	369.3	447.8	420.1	392.4	355.5	415.5	563.2	637.1	484.7	424.7
85°	258.5	253.9	290.8	267.8	249.3	180.0	249.3	318.5	383.2	240.1	217.0
87.5°	60.0	60.0	120.0	96.9	92.3	73.9	96.9	124.6	166.2	106.2	96.9
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°	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8
2.5°	4468.9	4427.4	4427.4	4418.1	4381.2	4372.0	4339.7	4348.9	4325.8	4302.7
5°	4625.9	4570.5	4570.5	4492.0	4418.1	4408.9	4372.0	4372.0	4335.0	4344.3
7.5°	4842.9	4792.1	4709.0	4639.7	4538.2	4496.6	4427.4	4418.1	4408.9	4390.4
10°	5101.4	5036.8	4953.7	4810.6	4727.5	4649.0	4579.7	4482.8	4459.7	4464.3
12.5°	5452.3	5350.7	5170.7	5046.0	4939.8	4838.3	4736.7	4593.6	4561.3	4575.1
15°	5701.6	5572.3	5392.3	5346.1	5203.0	5078.3	4912.1	4750.5	4695.1	4681.3
17.5°	5904.7	5798.5	5692.3	5623.1	5507.7	5355.3	5124.5	4939.8	4815.2	4801.3
20°	6070.9	5932.4	5909.3	5950.9	5807.8	5706.2	5424.6	5198.4	5032.2	4962.9
22.5°	6172.5	6084.8	6149.4	6186.3	6177.1	6006.3	5715.4	5452.3	5244.5	5179.9
25°	6283.3	6181.7	6412.5	6537.2	6569.5	6287.9	6061.7	5715.4	5512.3	5470.7
27.5°	6338.7	6375.6	6643.4	6906.5	6883.4	6666.5	6361.8	6052.4	5890.9	5817.0
30°	6500.3	6560.3	6966.5	7262.0	7266.6	7054.3	6823.4	6472.6	6292.5	6260.2
32.5°	6791.1	6865.0	7298.9	7612.9	7668.3	7506.7	7275.9	7058.9	6874.2	6800.3
35°	7012.7	7202.0	7691.4	7977.6	8125.3	8028.4	7899.1	7672.9	7479.0	7414.4
37.5°	7331.3	7594.4	8065.3	8453.1	8619.3	8610.1	8513.1	8268.4	8106.9	8051.5
40°	7788.3	8051.5	8480.8	8993.2	9302.6	9288.7	9233.3	9044.0	8804.0	8776.3
42.5°	8273.0	8490.0	9048.6	9635.0	10078.2	10032.0	9884.3	9662.7	9496.5	9459.5
45°	8743.9	9081.0	9598.0	10350.5	10682.9	10798.4	10622.9	10244.4	10055.1	10032.0
47.5°	9334.9	9602.6	10249.0	10923.0	11417.0	11435.5	11135.4	10784.5	10438.3	10512.1
50°	9861.2	10216.7	10872.2	11610.9	12201.8	11989.5	11606.3	11167.7	10918.4	10821.4
52.5°	10424.4	10858.4	11620.1	12372.6	12700.4	12488.1	11864.8	11375.4	10996.9	10955.3
55°	11246.2	11472.4	12469.6	13046.7	13152.9	12705.0	11786.3	11093.8	10604.5	10484.4
57.5°	12081.8	12344.9	13217.5	13716.1	13605.3	12585.0	11278.5	10207.4	9565.7	9394.9
60°	12926.6	13249.8	13983.9	14440.9	13868.4	11758.6	9842.7	8462.3	7714.4	7562.1
62.5°	13868.4	14288.6	14944.1	15105.7	13088.2	10124.3	7811.4	6107.8	5350.7	5096.8
65°	14704.1	15133.4	15941.3	14967.2	11430.8	7552.9	5050.6	3490.2	2931.6	2728.4
67.5°	15391.9	15876.7	16273.7	13245.2	8370.0	4422.8	2631.5	1837.4	1629.7	1555.8
70°	15936.7	16744.6	14888.7	9736.5	4782.9	2156.0	1421.9	1209.6	1181.9	1163.4
72.5°	15461.2	15355.0	11116.9	5618.5	2096.0	1186.5	1029.5	997.2	992.6	997.2
75°	12645.0	11278.5	6648.0	2442.2	1052.6	858.7	854.1	840.2	863.3	863.3
77.5°	6135.5	5364.6	2779.2	1048.0	692.5	674.0	697.1	697.1	697.1	697.1
80°	1421.9	1574.3	992.6	637.1	503.2	503.2	554.0	558.6	535.5	526.3
82.5°	484.7	646.3	544.8	401.6	332.4	373.9	420.1	429.3	355.5	360.1
85°	240.1	378.6	295.5	230.8	170.8	230.8	272.4	286.2	244.7	235.4
87.5°	110.8	166.2	110.8	78.5	60.0	83.1	78.5	64.6	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)