

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: P479203

Luminaire Tested: **IFLD-L-SA8D-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479203
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

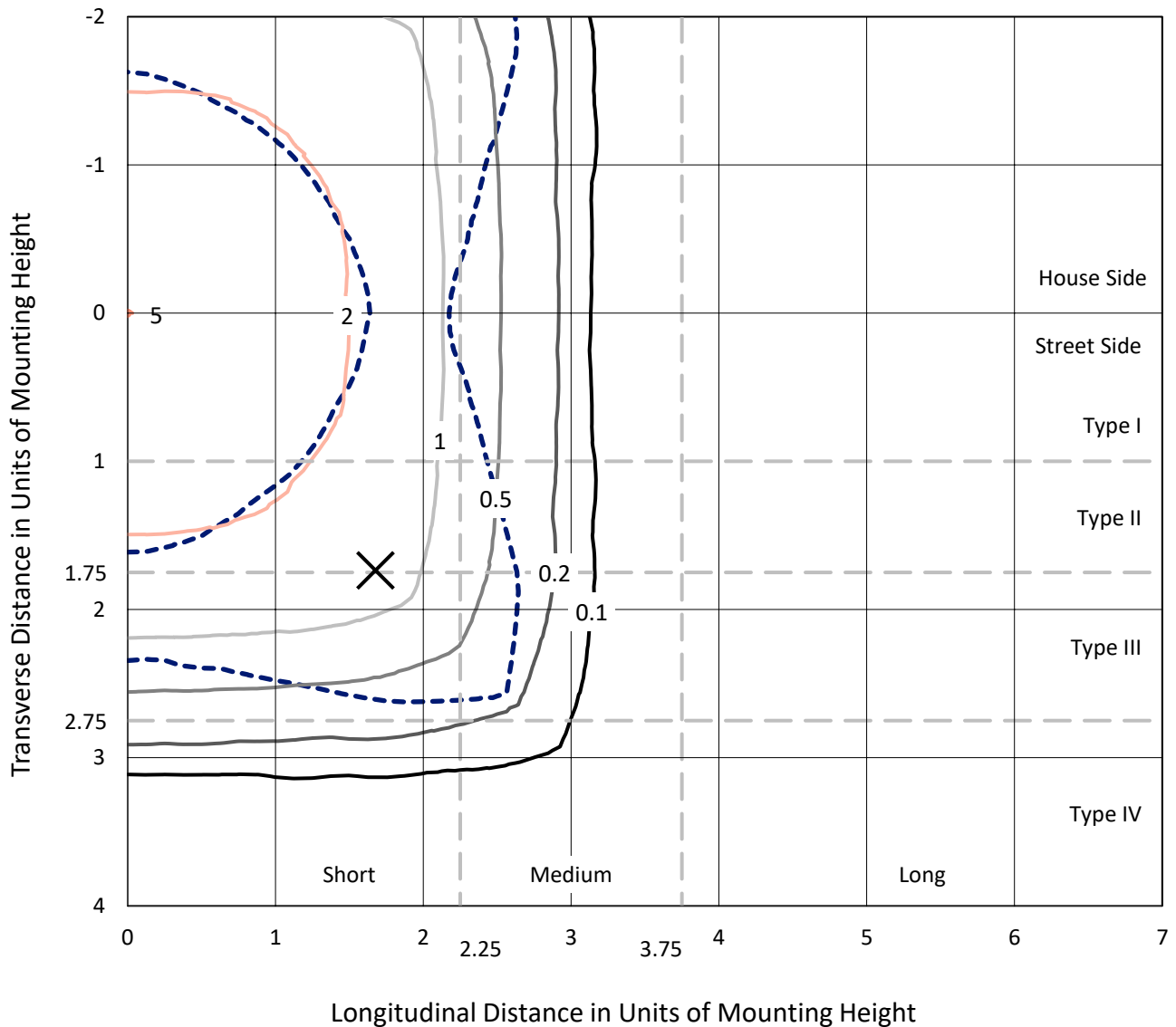
Lumens per Lamp: N/A
Luminaire Lumens: 41450.1 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
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

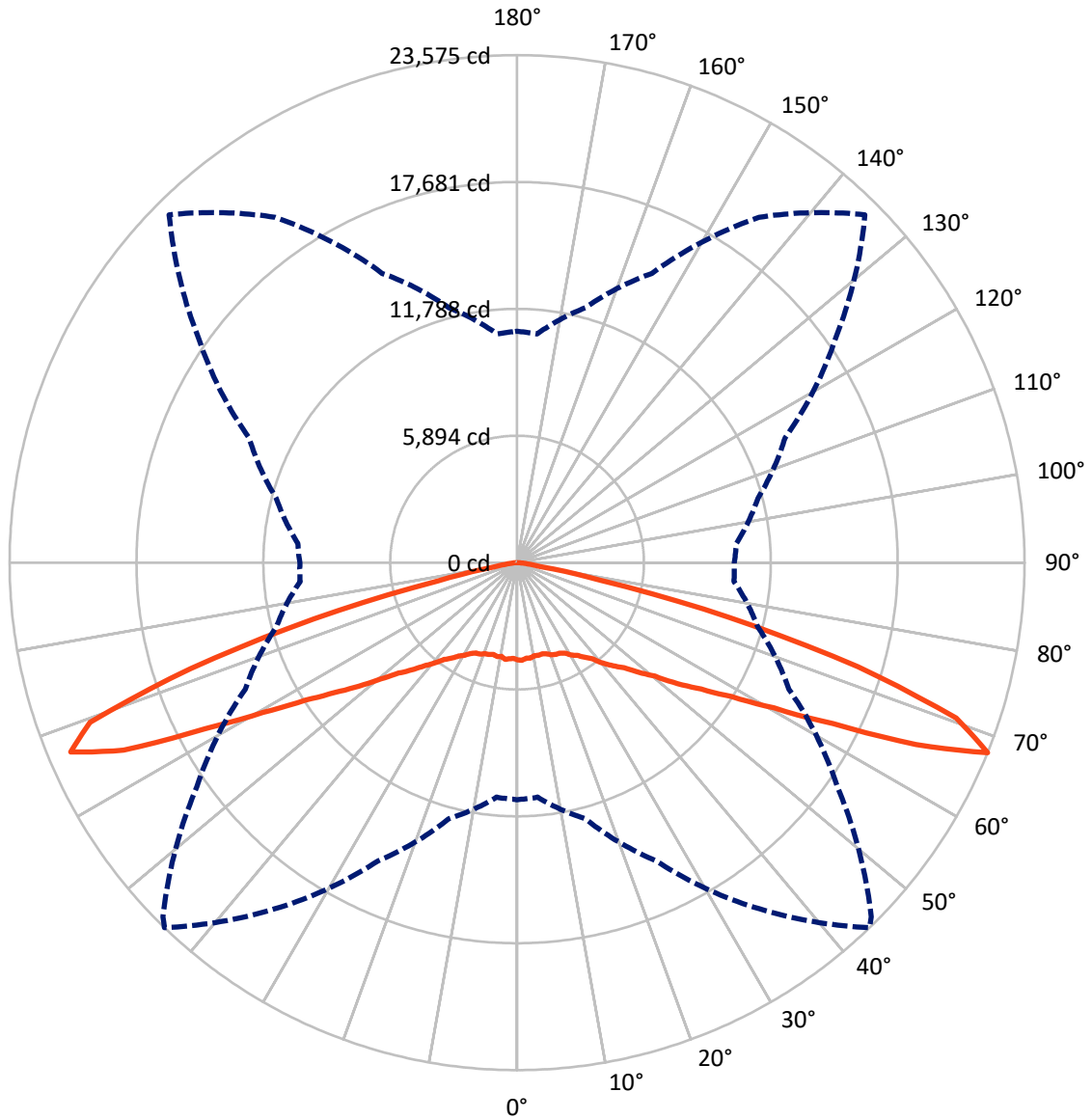
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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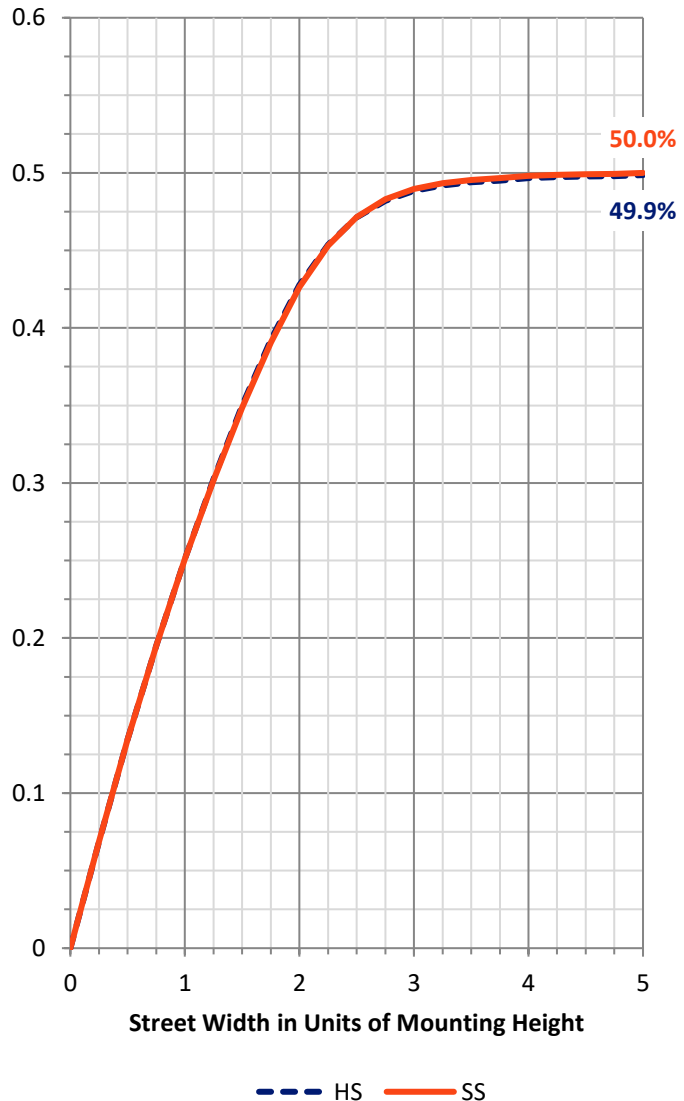
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20672.0	0.0	20672.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20778.1	0.0	20778.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	41450.1	0.0	41450.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.0
10°-20°	1251.7	3.0
20°-30°	2128.6	5.1
30°-40°	3375.0	8.1
40°-50°	5503.3	13.3
50°-60°	9398.8	22.7
60°-70°	14295.5	34.5
70°-80°	4818.5	11.6
80°-90°	250.2	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°	41450.1	100.0
0°-180°	41450.1	100.0

Coefficient of Utilization



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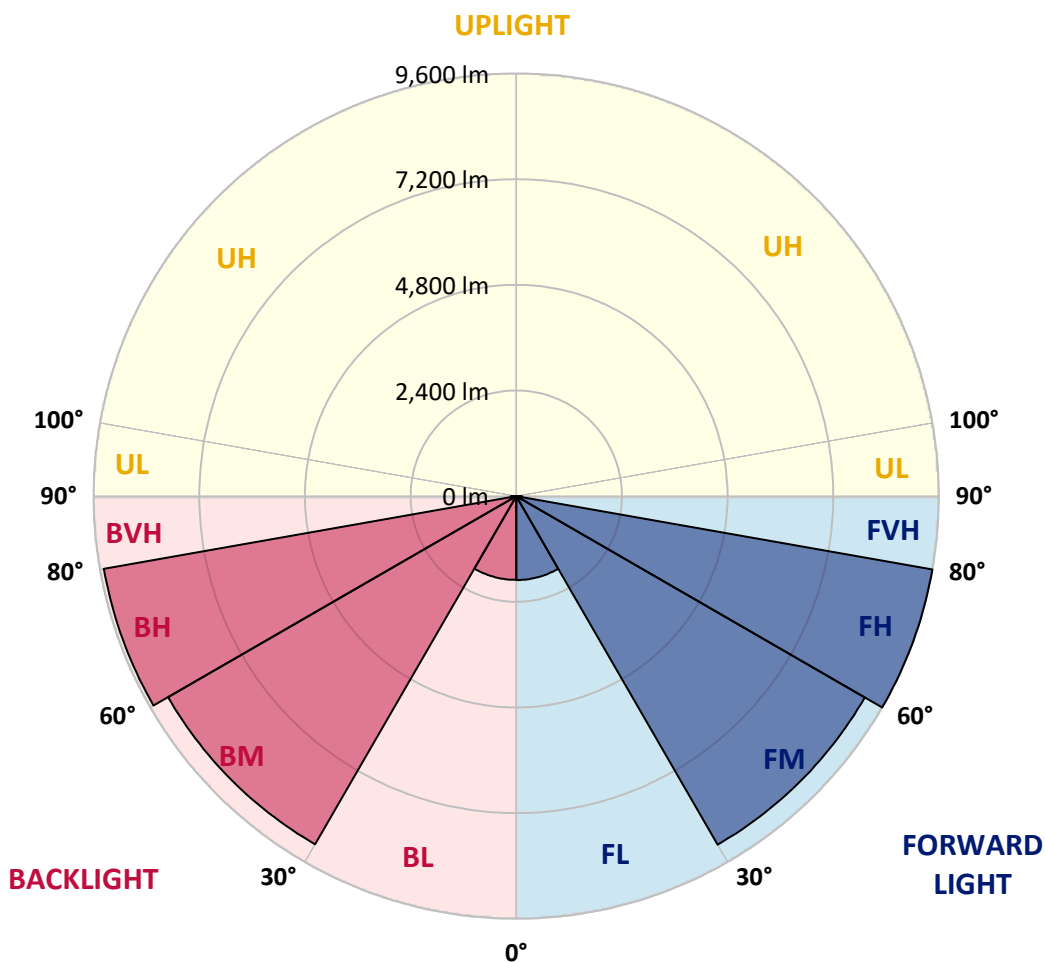
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.4	4.6			
FM (30°-60°)	9143.5	22.1			
FH (60°-80°)	9600.3	23.2			G4/12000
FVH (80°-90°)	128.0	0.3			G2/225
BL (0°-30°)	1902.4	4.6	B3/2500		
BM (30°-60°)	9133.6	22.0	B5		
BH (60°-80°)	9513.7	23.0	B5		G4/12000
BVH (80°-90°)	122.2	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°	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7
2.5°	4423.6	4475.7	4513.5	4508.8	4523.0	4537.2	4518.2	4546.6	4527.7	4560.8	4579.7
5°	4508.8	4494.6	4499.3	4470.9	4537.2	4461.5	4461.5	4499.3	4546.6	4489.9	4523.0
7.5°	4456.7	4447.3	4423.6	4466.2	4480.4	4480.4	4518.2	4447.3	4527.7	4546.6	4551.4
10°	4400.0	4347.9	4418.9	4461.5	4470.9	4395.2	4428.4	4447.3	4423.6	4447.3	4461.5
12.5°	4352.7	4381.0	4381.0	4381.0	4366.8	4418.9	4452.0	4447.3	4400.0	4442.5	4366.8
15°	4347.9	4333.7	4376.3	4414.2	4390.5	4400.0	4414.2	4456.7	4366.8	4385.8	4385.8
17.5°	4343.2	4362.1	4376.3	4371.6	4452.0	4452.0	4437.8	4409.4	4480.4	4442.5	4390.5
20°	4362.1	4347.9	4385.8	4400.0	4456.7	4570.3	4527.7	4504.1	4466.2	4418.9	4418.9
22.5°	4385.8	4376.3	4428.4	4489.9	4598.7	4627.1	4622.3	4593.9	4527.7	4470.9	4461.5
25°	4470.9	4385.8	4442.5	4560.8	4598.7	4655.4	4693.3	4655.4	4565.6	4579.7	4494.6
27.5°	4598.7	4584.5	4660.2	4740.6	4707.5	4759.5	4726.4	4754.8	4759.5	4688.6	4603.4
30°	4750.1	4707.5	4754.8	4910.9	4925.1	4981.9	4925.1	4849.4	4873.1	4811.6	4769.0
32.5°	4967.7	4953.5	5043.4	5147.5	5166.4	5138.0	5109.6	5152.2	5052.9	5005.6	4929.9
35°	5109.6	5171.1	5280.0	5360.4	5421.9	5393.5	5407.7	5365.1	5388.8	5289.4	5256.3
37.5°	5530.7	5507.1	5530.7	5667.9	5682.1	5667.9	5682.1	5729.4	5696.3	5611.1	5526.0
40°	5928.1	5890.3	5947.0	6103.2	6093.7	6141.0	6046.4	6098.4	6098.4	5937.6	5904.5
42.5°	6226.2	6353.9	6420.2	6547.9	6595.2	6552.6	6533.7	6543.2	6647.3	6458.0	6387.0
45°	6841.2	6836.5	7035.2	7106.2	6973.7	6964.2	6926.4	7039.9	7110.9	7002.1	6973.7
47.5°	7508.3	7541.4	7655.0	7683.4	7763.8	7617.1	7617.1	7631.3	7882.1	7626.6	7494.1
50°	8109.2	8151.8	8378.9	8601.2	8449.8	8293.7	8355.2	8430.9	8568.1	8326.8	8213.3
52.5°	8837.8	9069.6	9221.0	9339.3	9448.1	9339.3	9197.3	9282.5	9552.2	9230.5	9088.5
55°	9888.1	10072.6	10214.5	10432.2	10522.1	10375.4	10361.2	10351.7	10503.1	10162.5	9968.5
57.5°	11061.4	10985.7	11212.8	11548.7	11875.2	11733.2	11690.7	11700.1	11738.0	11255.4	11108.7
60°	12518.6	12603.8	12873.4	13166.8	13512.2	13710.9	13431.7	13270.9	13304.0	12646.4	12419.3
62.5°	13351.3	13540.5	14150.9	15158.6	15854.1	16473.8	16516.4	15470.8	14770.6	13493.2	12528.1
65°	12949.1	12920.8	14070.4	15934.5	18569.7	20372.3	20102.6	17566.7	15120.7	13091.1	11794.7
67.5°	11014.1	10938.4	12329.4	15286.3	19639.0	23575.3	23267.8	18158.1	13938.0	11581.8	10115.2
70°	7096.7	7077.8	8587.0	11652.8	17533.6	21645.0	21758.5	16492.8	11345.3	8482.9	7030.5
72.5°	2578.5	2734.6	3609.9	6264.0	11908.3	16559.0	16630.0	12211.1	6524.2	3922.1	2890.7
75°	951.0	979.3	1140.2	2034.4	5426.6	10167.2	10432.2	5923.4	2318.3	1277.4	1040.9
77.5°	548.8	553.5	610.3	757.0	1608.6	3969.4	4130.3	1797.8	898.9	681.3	629.2
80°	373.8	369.0	430.5	492.0	643.4	1126.0	1197.0	752.3	567.7	473.1	397.4
82.5°	217.6	231.8	317.0	350.1	392.7	496.8	506.2	468.4	425.8	350.1	260.2
85°	132.5	108.8	175.1	194.0	227.1	222.4	222.4	255.5	274.4	246.0	146.7
87.5°	33.1	33.1	42.6	47.3	61.5	47.3	52.0	99.4	132.5	123.0	75.7
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°	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7	4527.7
2.5°	4537.2	4523.0	4532.4	4584.5	4551.4	4452.0	4475.7	4527.7	4485.1	4461.5	4456.7
5°	4518.2	4546.6	4513.5	4523.0	4556.1	4475.7	4489.9	4556.1	4527.7	4537.2	4485.1
7.5°	4523.0	4537.2	4508.8	4466.2	4466.2	4532.4	4494.6	4504.1	4461.5	4532.4	4437.8
10°	4494.6	4456.7	4423.6	4447.3	4437.8	4418.9	4404.7	4433.1	4390.5	4452.0	4385.8
12.5°	4409.4	4418.9	4409.4	4400.0	4418.9	4466.2	4390.5	4400.0	4333.7	4343.2	4376.3
15°	4376.3	4404.7	4395.2	4447.3	4470.9	4400.0	4456.7	4400.0	4347.9	4319.5	4371.6
17.5°	4390.5	4433.1	4418.9	4456.7	4414.2	4466.2	4475.7	4452.0	4390.5	4366.8	4390.5
20°	4404.7	4390.5	4409.4	4475.7	4537.2	4485.1	4485.1	4470.9	4414.2	4381.0	4381.0
22.5°	4437.8	4414.2	4442.5	4494.6	4513.5	4593.9	4523.0	4489.9	4395.2	4310.1	4390.5
25°	4504.1	4518.2	4537.2	4518.2	4622.3	4612.9	4603.4	4579.7	4433.1	4437.8	4423.6
27.5°	4631.8	4551.4	4575.0	4688.6	4702.8	4740.6	4693.3	4735.9	4579.7	4584.5	4489.9
30°	4787.9	4702.8	4778.5	4877.8	4873.1	4944.0	4920.4	4929.9	4821.0	4759.5	4631.8
32.5°	4958.2	4948.8	4996.1	5057.6	5081.3	5119.1	5114.4	5114.4	5048.1	4887.3	4910.9
35°	5147.5	5213.7	5270.5	5336.7	5346.2	5393.5	5327.3	5336.7	5270.5	5152.2	5190.1
37.5°	5521.2	5516.5	5578.0	5658.4	5667.9	5630.1	5682.1	5658.4	5568.6	5488.1	5426.6
40°	5956.5	5861.9	5918.7	6107.9	6122.1	6055.9	6051.1	6046.4	5980.2	5805.1	5767.3
42.5°	6335.0	6458.0	6448.6	6510.1	6467.5	6434.4	6552.6	6486.4	6434.4	6249.8	6216.7
45°	6822.3	6860.2	6983.2	7181.9	6978.4	6978.4	7058.9	7006.8	6978.4	6841.2	6713.5
47.5°	7427.9	7461.0	7707.0	7721.2	7588.8	7498.9	7749.6	7759.1	7640.8	7536.7	7380.6
50°	8137.6	8151.8	8374.1	8601.2	8454.6	8284.2	8539.7	8639.1	8374.1	8232.2	8038.2
52.5°	8918.2	8875.6	9060.1	9485.9	9344.0	9292.0	9566.4	9590.0	9230.5	9008.1	9060.1
55°	9817.1	9760.4	10261.9	10550.5	10460.6	10365.9	10488.9	10545.7	10257.1	9892.8	10020.6
57.5°	10981.0	11009.4	11260.1	11544.0	11690.7	11714.3	11771.1	11714.3	11421.0	11052.0	10933.7
60°	12144.8	12230.0	12717.3	13251.9	13299.2	13715.6	13639.9	13356.0	12939.7	12414.5	12438.2
62.5°	12575.4	12504.4	13289.8	14595.6	15707.4	16469.1	16133.2	15125.5	14160.3	13204.6	13275.6
65°	11709.6	11884.6	12953.9	14997.7	17410.6	20424.4	18636.0	15849.3	13900.1	12665.3	12528.1
67.5°	10091.5	10224.0	11581.8	13739.2	18020.9	22856.2	19582.2	14827.4	12258.4	10659.3	10744.4
70°	7030.5	7096.7	8426.2	11255.4	16341.4	21569.3	17666.1	11387.9	8464.0	6746.6	6841.2
72.5°	2829.2	2990.1	3865.3	6779.7	12064.4	16388.7	11894.1	5975.4	3510.5	2611.6	2370.3
75°	1045.6	1050.3	1234.8	2332.5	5729.4	10299.7	5365.1	1920.8	1121.3	917.8	875.3
77.5°	605.6	600.9	643.4	842.1	1660.6	4021.5	1523.4	752.3	610.3	548.8	525.2
80°	378.5	373.8	440.0	558.3	728.6	1102.4	643.4	468.4	411.6	354.8	354.8
82.5°	241.3	246.0	345.4	411.6	444.7	487.3	373.8	331.2	307.5	203.4	198.7
85°	156.1	141.9	241.3	274.4	246.0	217.6	208.2	175.1	160.9	99.4	108.8
87.5°	71.0	75.7	123.0	137.2	89.9	52.0	52.0	37.8	37.8	23.7	23.7
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)