

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: P479276

Luminaire Tested: **IFLD-L-SA7D-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479276  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

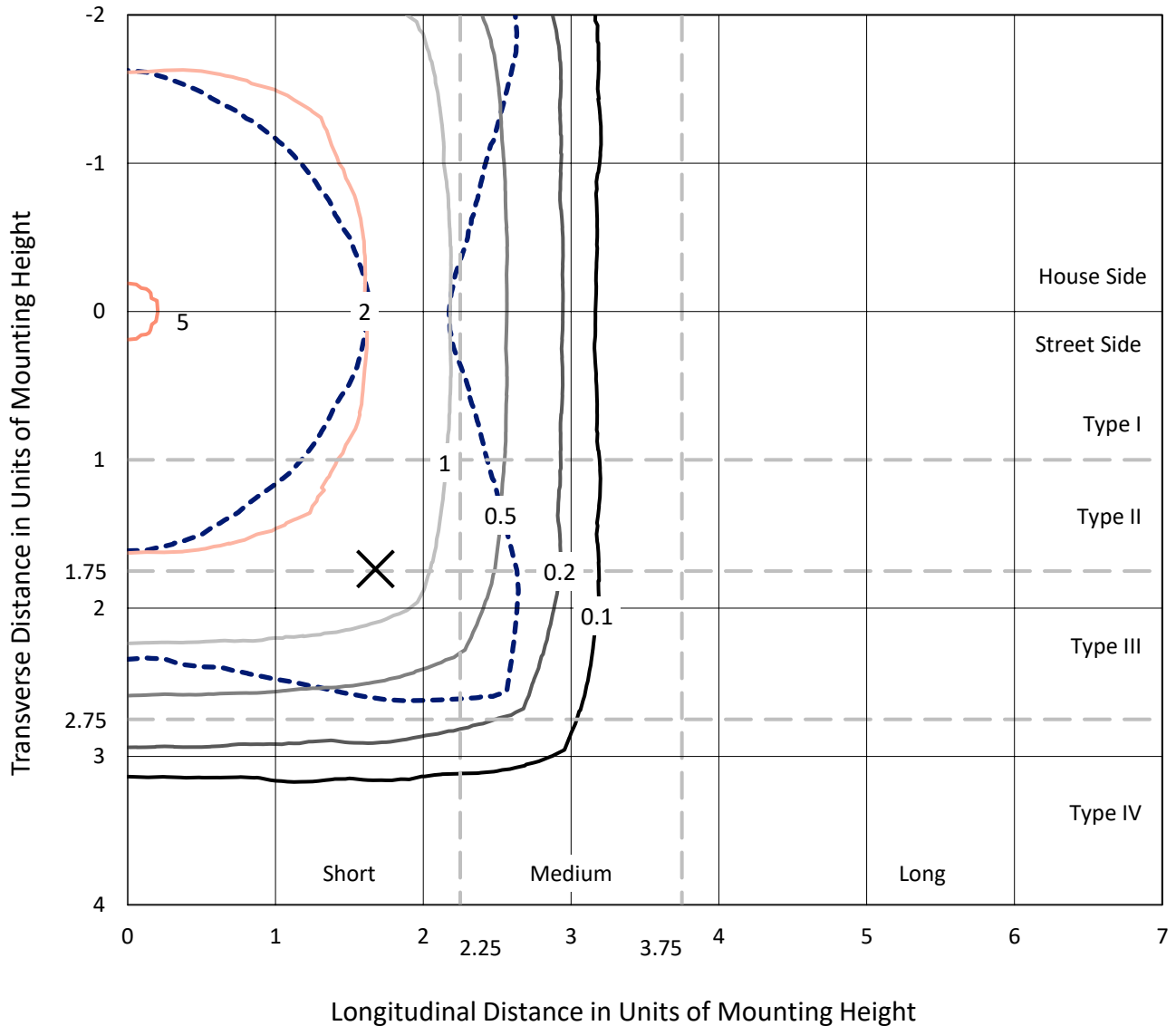
Lumens per Lamp: N/A  
Luminaire Lumens: 44836.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6  
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

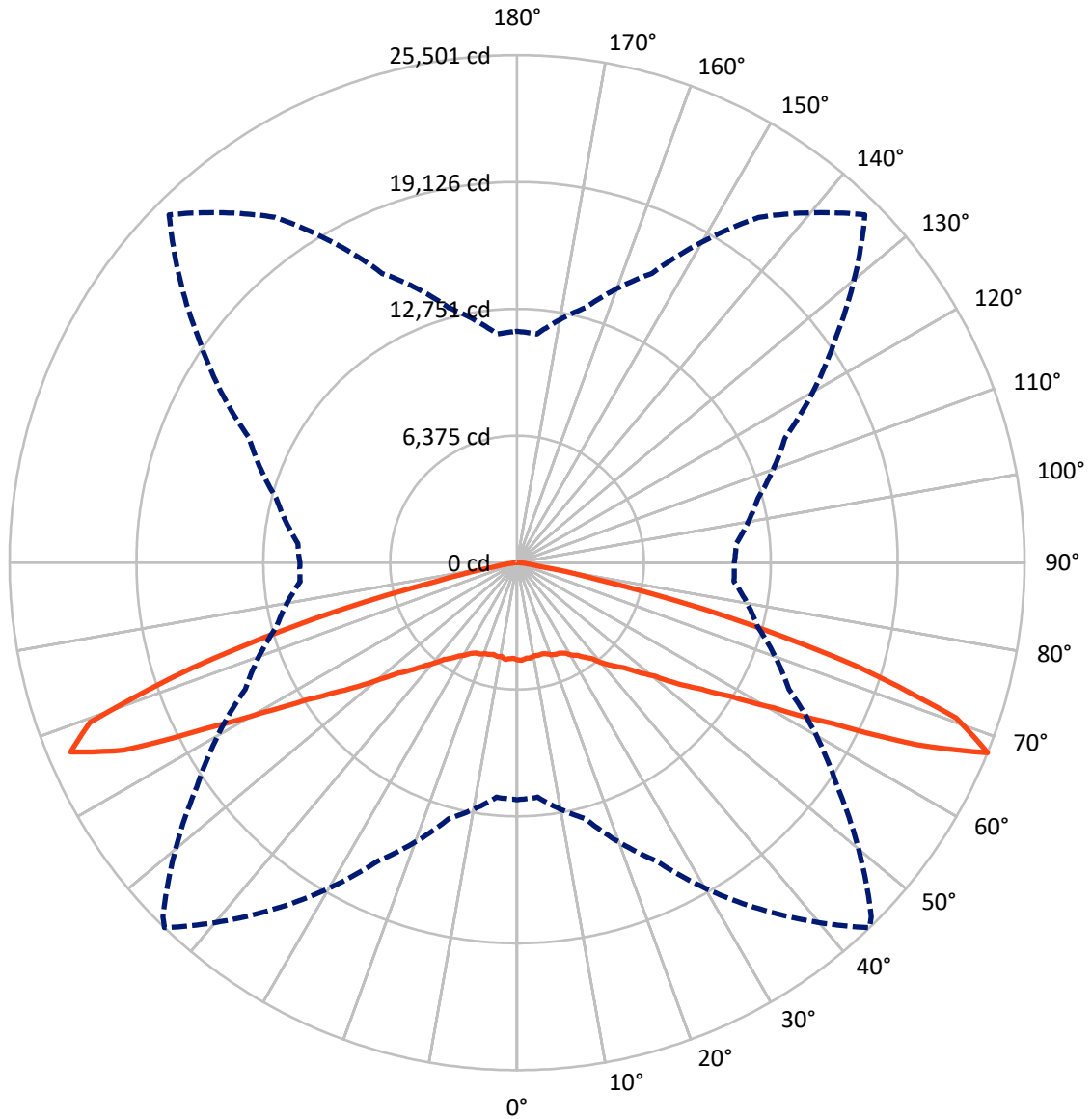
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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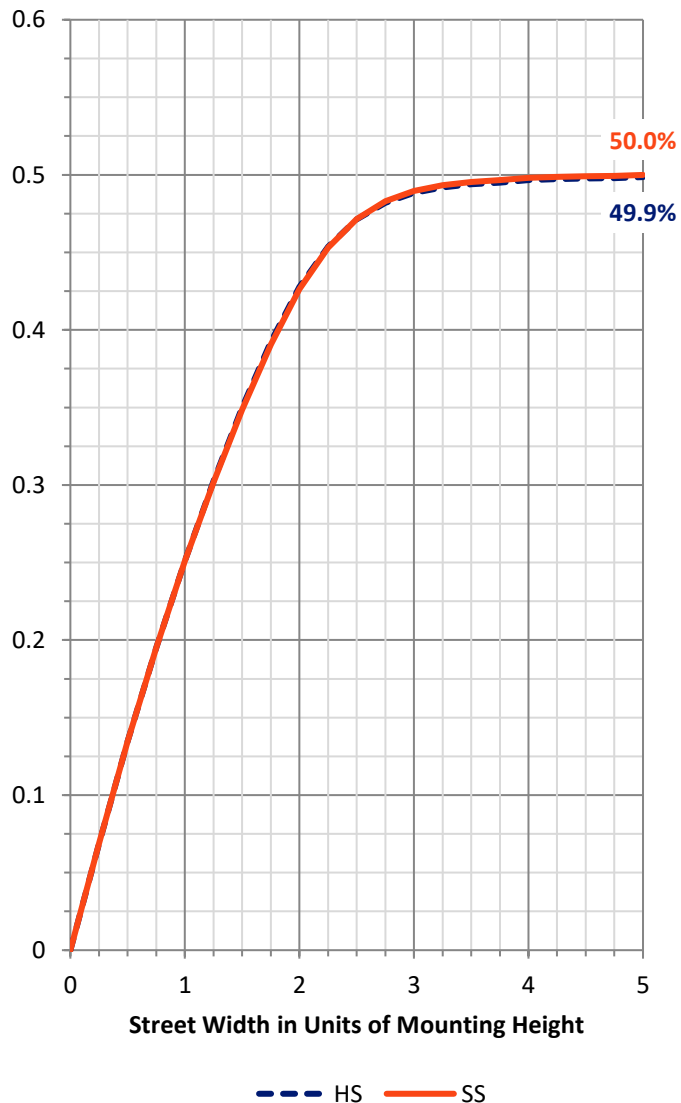
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22360.7	0.0	22360.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	22475.5	0.0	22475.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	44836.2	0.0	44836.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.5	1.0
10°-20°	1354.0	3.0
20°-30°	2302.5	5.1
30°-40°	3650.7	8.1
40°-50°	5952.8	13.3
50°-60°	10166.6	22.7
60°-70°	15463.3	34.5
70°-80°	5212.1	11.6
80°-90°	270.6	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°	44836.2	100.0
0°-180°	44836.2	100.0

**Coefficient of Utilization**



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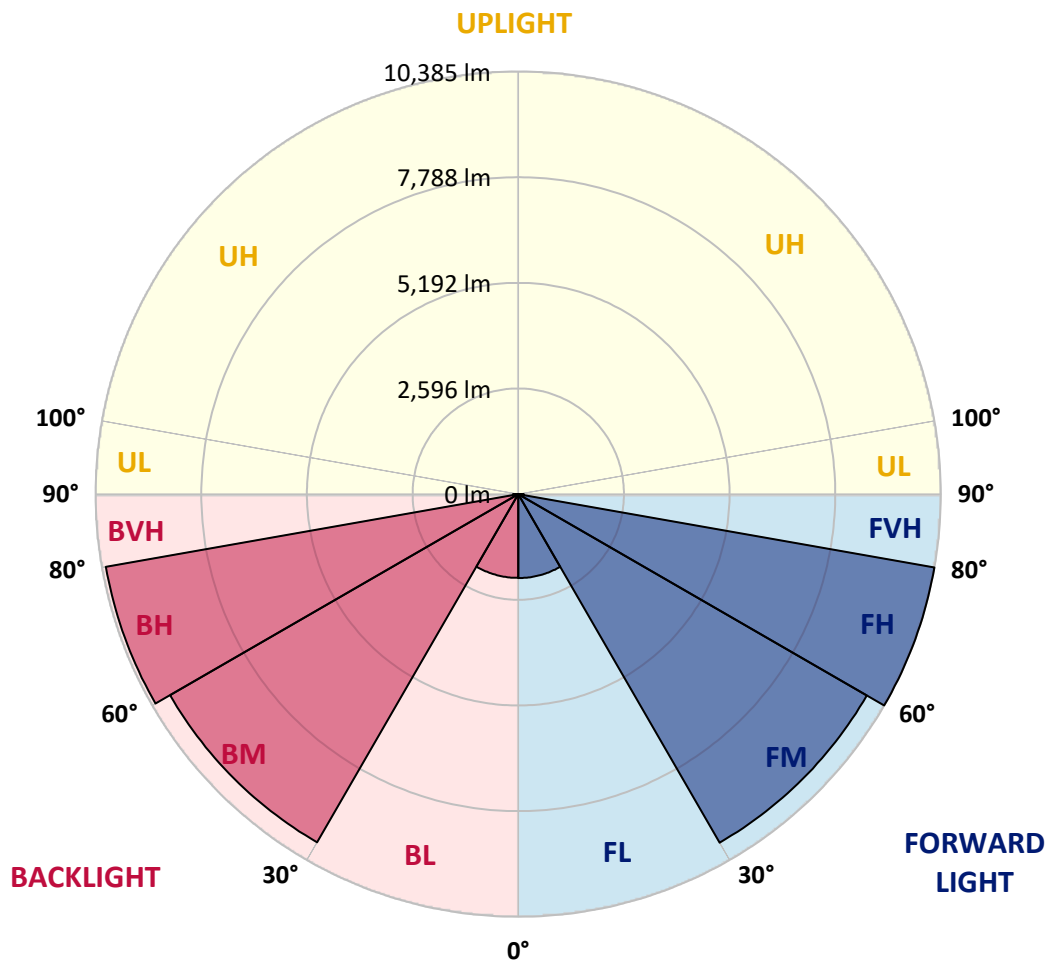
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.1	4.6			
FM (30°-60°)	9890.4	22.1			
FH (60°-80°)	10384.5	23.2			G4/12000
FVH (80°-90°)	138.4	0.3			G2/225
BL (0°-30°)	2057.9	4.6	B3/2500		
BM (30°-60°)	9879.7	22.0	B5		
BH (60°-80°)	10290.9	23.0	B5		G4/12000
BVH (80°-90°)	132.2	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°	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6
2.5°	4785.0	4841.3	4882.2	4877.1	4892.5	4907.8	4887.3	4918.0	4897.6	4933.4	4953.9
5°	4877.1	4861.8	4866.9	4836.2	4907.8	4825.9	4825.9	4866.9	4918.0	4856.6	4892.5
7.5°	4820.8	4810.6	4785.0	4831.0	4846.4	4846.4	4887.3	4810.6	4897.6	4918.0	4923.2
10°	4759.4	4703.1	4779.9	4825.9	4836.2	4754.3	4790.1	4810.6	4785.0	4810.6	4825.9
12.5°	4708.2	4738.9	4738.9	4738.9	4723.6	4779.9	4815.7	4810.6	4759.4	4805.5	4723.6
15°	4703.1	4687.8	4733.8	4774.8	4749.2	4759.4	4774.8	4820.8	4723.6	4744.0	4744.0
17.5°	4698.0	4718.5	4733.8	4728.7	4815.7	4815.7	4800.3	4769.6	4846.4	4805.5	4749.2
20°	4718.5	4703.1	4744.0	4759.4	4820.8	4943.6	4897.6	4872.0	4831.0	4779.9	4779.9
22.5°	4744.0	4733.8	4790.1	4856.6	4974.3	5005.0	4999.9	4969.2	4897.6	4836.2	4825.9
25°	4836.2	4744.0	4805.5	4933.4	4974.3	5035.8	5076.7	5035.8	4938.5	4953.9	4861.8
27.5°	4974.3	4959.0	5040.9	5127.9	5092.0	5148.3	5112.5	5143.2	5148.3	5071.6	4979.5
30°	5138.1	5092.0	5143.2	5312.1	5327.5	5388.9	5327.5	5245.6	5271.2	5204.6	5158.6
32.5°	5373.5	5358.2	5455.4	5568.0	5588.5	5557.7	5527.0	5573.1	5465.6	5414.5	5332.6
35°	5527.0	5593.6	5711.3	5798.3	5864.8	5834.1	5849.5	5803.4	5829.0	5721.5	5685.7
37.5°	5982.5	5956.9	5982.5	6130.9	6146.3	6130.9	6146.3	6197.5	6161.6	6069.5	5977.4
40°	6412.4	6371.5	6432.9	6601.7	6591.5	6642.7	6540.3	6596.6	6596.6	6422.6	6386.8
42.5°	6734.8	6873.0	6944.6	7082.8	7134.0	7087.9	7067.5	7077.7	7190.3	6985.6	6908.8
45°	7400.1	7395.0	7609.9	7686.7	7543.4	7533.2	7492.2	7615.0	7691.8	7574.1	7543.4
47.5°	8121.7	8157.5	8280.3	8311.0	8398.0	8239.4	8239.4	8254.7	8526.0	8249.6	8106.3
50°	8771.6	8817.7	9063.3	9303.9	9140.1	8971.2	9037.7	9119.6	9268.0	9007.0	8884.2
52.5°	9559.7	9810.5	9974.3	10102.2	10219.9	10102.2	9948.7	10040.8	10332.5	9984.5	9831.0
55°	10695.9	10895.4	11049.0	11284.4	11381.6	11223.0	11207.6	11197.4	11361.1	10992.7	10782.9
57.5°	11965.0	11883.1	12128.8	12492.1	12845.3	12691.7	12645.7	12655.9	12696.8	12174.9	12016.2
60°	13541.3	13633.4	13925.1	14242.4	14616.0	14830.9	14529.0	14355.0	14390.8	13679.4	13433.8
62.5°	14442.0	14646.7	15306.8	16396.9	17149.2	17819.6	17865.7	16734.7	15977.3	14595.5	13551.5
65°	14007.0	13976.3	15219.8	17236.2	20086.7	22036.5	21744.8	19001.8	16356.0	14160.5	12758.3
67.5°	11913.9	11832.0	13336.6	16535.1	21243.3	25501.2	25168.5	19641.5	15076.5	12528.0	10941.5
70°	7676.5	7656.0	9288.5	12604.7	18965.9	23413.2	23536.0	17840.1	12272.1	9175.9	7604.8
72.5°	2789.1	2958.0	3904.8	6775.7	12881.1	17911.7	17988.5	13208.6	7057.2	4242.5	3126.9
75°	1028.6	1059.4	1233.3	2200.6	5869.9	10997.8	11284.4	6407.3	2507.6	1381.8	1125.9
77.5°	593.6	598.8	660.2	818.8	1740.0	4293.7	4467.7	1944.7	972.4	736.9	680.6
80°	404.3	399.2	465.7	532.2	696.0	1218.0	1294.8	813.7	614.1	511.8	429.9
82.5°	235.4	250.8	342.9	378.7	424.8	537.4	547.6	506.6	460.6	378.7	281.5
85°	143.3	117.7	189.4	209.8	245.6	240.5	240.5	276.4	296.8	266.1	158.6
87.5°	35.8	35.8	46.1	51.2	66.5	51.2	56.3	107.5	143.3	133.1	81.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6	4897.6
2.5°	4907.8	4892.5	4902.7	4959.0	4923.2	4815.7	4841.3	4897.6	4851.5	4825.9	4820.8
5°	4887.3	4918.0	4882.2	4892.5	4928.3	4841.3	4856.6	4928.3	4897.6	4907.8	4851.5
7.5°	4892.5	4907.8	4877.1	4831.0	4831.0	4902.7	4861.8	4872.0	4825.9	4902.7	4800.3
10°	4861.8	4820.8	4785.0	4810.6	4800.3	4779.9	4764.5	4795.2	4749.2	4815.7	4744.0
12.5°	4769.6	4779.9	4769.6	4759.4	4779.9	4831.0	4749.2	4759.4	4687.8	4698.0	4733.8
15°	4733.8	4764.5	4754.3	4810.6	4836.2	4759.4	4820.8	4759.4	4703.1	4672.4	4728.7
17.5°	4749.2	4795.2	4779.9	4820.8	4774.8	4831.0	4841.3	4815.7	4749.2	4723.6	4749.2
20°	4764.5	4749.2	4769.6	4841.3	4907.8	4851.5	4851.5	4836.2	4774.8	4738.9	4738.9
22.5°	4800.3	4774.8	4805.5	4861.8	4882.2	4969.2	4892.5	4856.6	4754.3	4662.2	4749.2
25°	4872.0	4887.3	4907.8	4887.3	4999.9	4989.7	4979.5	4953.9	4795.2	4800.3	4785.0
27.5°	5010.2	4923.2	4948.8	5071.6	5086.9	5127.9	5076.7	5122.8	4953.9	4959.0	4856.6
30°	5179.0	5086.9	5168.8	5276.3	5271.2	5347.9	5322.3	5332.6	5214.9	5148.3	5010.2
32.5°	5363.3	5353.0	5404.2	5470.8	5496.3	5537.3	5532.2	5532.2	5460.5	5286.5	5312.1
35°	5568.0	5639.6	5701.0	5772.7	5782.9	5834.1	5762.5	5772.7	5701.0	5573.1	5614.0
37.5°	5972.3	5967.2	6033.7	6120.7	6130.9	6090.0	6146.3	6120.7	6023.5	5936.5	5869.9
40°	6443.1	6340.7	6402.2	6606.9	6622.2	6550.6	6545.5	6540.3	6468.7	6279.3	6238.4
42.5°	6852.5	6985.6	6975.3	7041.9	6995.8	6960.0	7087.9	7016.3	6960.0	6760.4	6724.6
45°	7379.6	7420.6	7553.6	7768.6	7548.5	7548.5	7635.5	7579.2	7548.5	7400.1	7261.9
47.5°	8034.7	8070.5	8336.6	8352.0	8208.7	8111.4	8382.7	8392.9	8265.0	8152.4	7983.5
50°	8802.3	8817.7	9058.2	9303.9	9145.2	8961.0	9237.3	9344.8	9058.2	8904.7	8694.9
52.5°	9646.7	9600.7	9800.3	10260.9	10107.3	10051.0	10347.9	10373.4	9984.5	9744.0	9800.3
55°	10619.1	10557.7	11100.1	11412.3	11315.1	11212.7	11345.8	11407.2	11095.0	10701.0	10839.1
57.5°	11878.0	11908.7	12180.0	12487.0	12645.7	12671.3	12732.7	12671.3	12354.0	11954.8	11826.9
60°	13137.0	13229.1	13756.2	14334.5	14385.7	14836.0	14754.1	14447.1	13996.7	13428.7	13454.3
62.5°	13602.7	13525.9	14375.4	15787.9	16990.5	17814.5	17451.1	16361.1	15317.1	14283.3	14360.1
65°	12666.1	12855.5	14012.1	16222.9	18832.9	22092.8	20158.4	17144.1	15035.6	13699.9	13551.5
67.5°	10915.9	11059.2	12528.0	14861.6	19493.1	24723.3	21181.9	16038.7	13259.8	11530.0	11622.1
70°	7604.8	7676.5	9114.5	12174.9	17676.3	23331.3	19109.2	12318.1	9155.4	7297.7	7400.1
72.5°	3060.3	3234.3	4181.1	7333.6	13050.0	17727.5	12865.7	6463.6	3797.3	2824.9	2563.9
75°	1131.0	1136.1	1335.7	2523.0	6197.5	11141.1	5803.4	2077.8	1212.9	992.8	946.8
77.5°	655.1	649.9	696.0	910.9	1796.3	4350.0	1647.9	813.7	660.2	593.6	568.1
80°	409.4	404.3	475.9	603.9	788.1	1192.4	696.0	506.6	445.2	383.8	383.8
82.5°	261.0	266.1	373.6	445.2	481.1	527.1	404.3	358.2	332.6	220.1	214.9
85°	168.9	153.5	261.0	296.8	266.1	235.4	225.2	189.4	174.0	107.5	117.7
87.5°	76.8	81.9	133.1	148.4	97.2	56.3	56.3	40.9	40.9	25.6	25.6
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)