

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: P479124

Luminaire Tested: **IFLD-L-SA8C-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479124  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

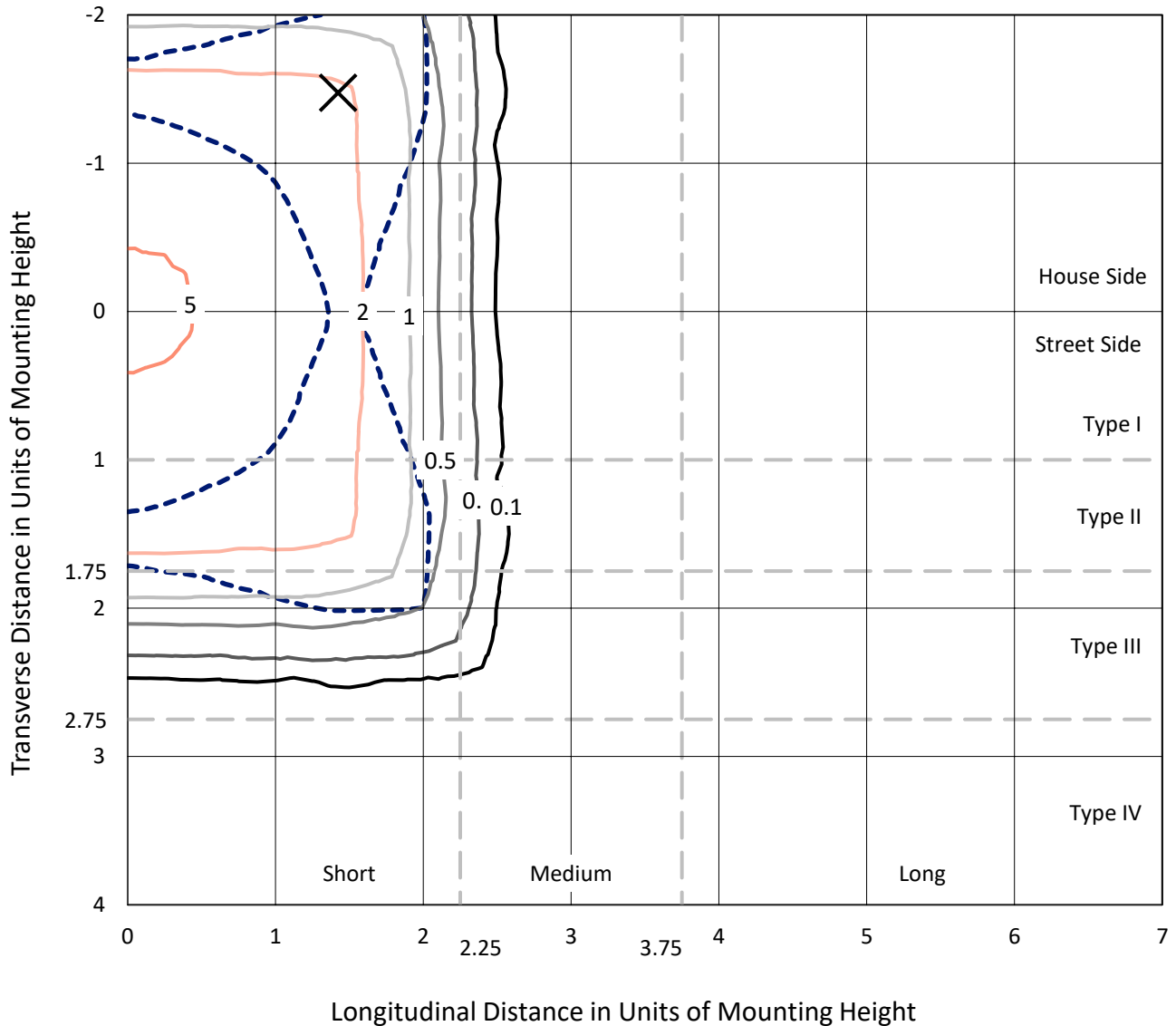
Lumens per Lamp: N/A  
Luminaire Lumens: 40151.8 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 420.3  
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

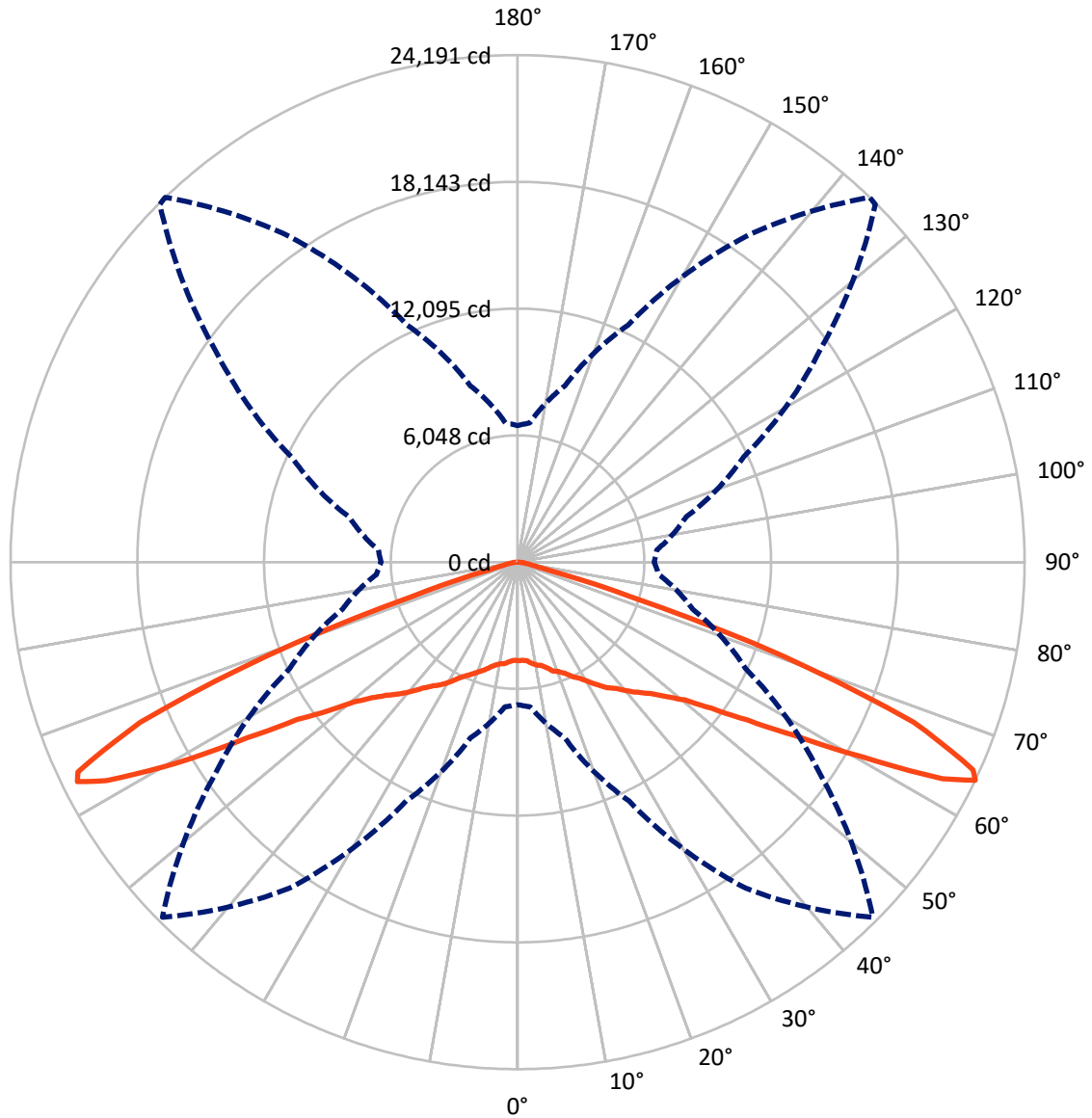
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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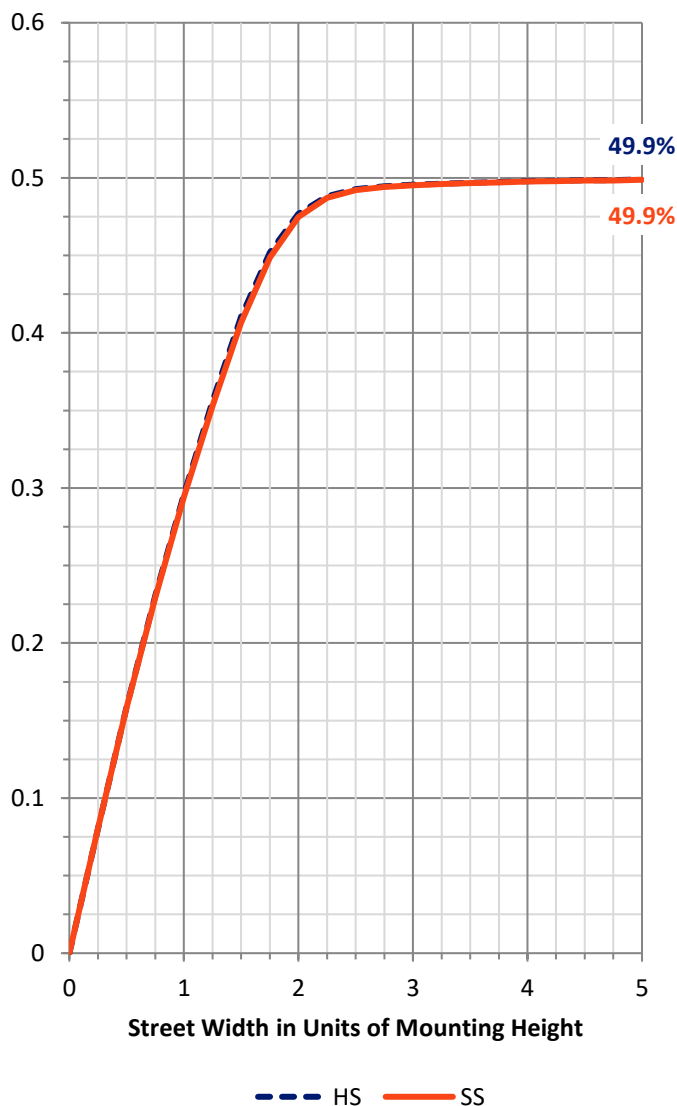
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20095.1	0.0	20095.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20056.8	0.0	20056.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40151.8	0.0	40151.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.9	1.2
10°-20°	1488.7	3.7
20°-30°	2797.9	7.0
30°-40°	4614.2	11.5
40°-50°	7216.4	18.0
50°-60°	11659.9	29.0
60°-70°	10499.0	26.1
70°-80°	1243.7	3.1
80°-90°	170.2	0.4
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°	40151.8	100.0
0°-180°	40151.8	100.0

**Coefficient of Utilization**



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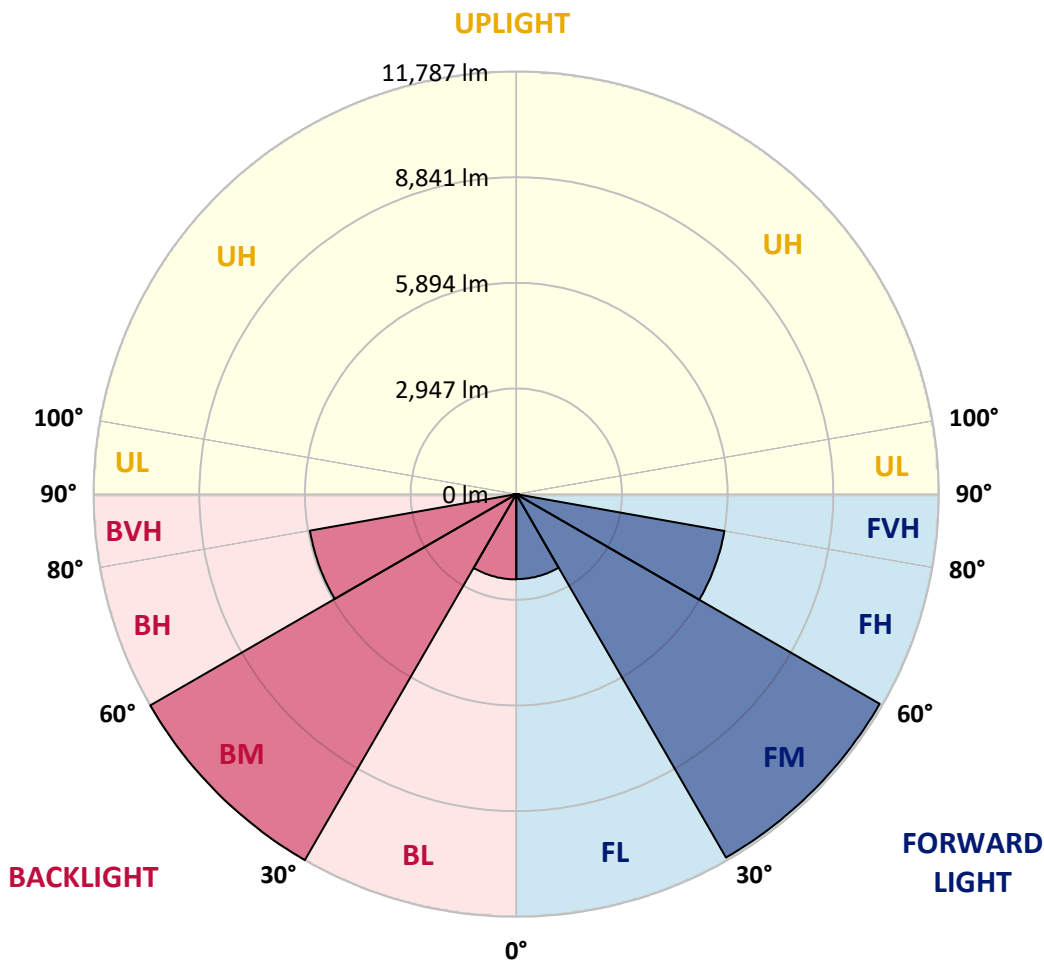
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2369.7	5.9			
FM (30°-60°)	11703.0	29.1			
FH (60°-80°)	5896.8	14.7			G3/7500
FVH (80°-90°)	87.3	0.2			G1/100
BL (0°-30°)	2378.8	5.9	B3/2500		
BM (30°-60°)	11787.5	29.4	B5		
BH (60°-80°)	5845.9	14.6	B5		G3/7500
BVH (80°-90°)	82.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0
2.5°	4645.7	4654.9	4737.8	4705.6	4733.2	4682.5	4719.4	4797.6	4705.6	4774.6	4797.6
5°	4696.4	4710.2	4710.2	4742.4	4760.8	4751.6	4774.6	4742.4	4829.9	4793.0	4848.3
7.5°	4880.5	4857.5	4820.7	4848.3	4852.9	4875.9	4898.9	4940.4	4926.6	4894.3	4949.6
10°	4912.8	4894.3	4949.6	4954.2	4931.2	4912.8	4935.8	4935.8	4977.2	4986.4	4986.4
12.5°	4968.0	4986.4	4981.8	5018.7	5023.3	5009.4	5046.3	5115.3	5096.9	5110.7	5078.5
15°	5179.8	5156.8	5152.2	5189.0	5248.9	5161.4	5225.8	5221.2	5202.8	5230.4	5156.8
17.5°	5364.0	5290.3	5322.5	5382.4	5359.4	5377.8	5460.7	5387.0	5405.4	5373.2	5350.2
20°	5525.1	5465.3	5469.9	5492.9	5492.9	5548.1	5580.4	5552.7	5534.3	5529.7	5538.9
22.5°	5704.7	5635.6	5640.2	5736.9	5769.1	5750.7	5727.7	5773.8	5783.0	5746.1	5787.6
25°	5838.2	5911.9	5934.9	5980.9	5911.9	5962.5	5944.1	6031.6	6086.8	6013.2	6063.8
27.5°	6188.1	6155.9	6215.8	6211.2	6266.4	6215.8	6248.0	6275.6	6298.6	6303.2	6280.2
30°	6501.2	6515.0	6455.2	6616.3	6487.4	6570.3	6625.5	6639.4	6667.0	6667.0	6597.9
32.5°	6832.7	6805.1	6901.8	6865.0	6841.9	6906.4	6846.5	7035.3	6924.8	6989.3	6911.0
35°	7205.7	7205.7	7242.5	7343.8	7205.7	7164.2	7274.7	7353.0	7353.0	7237.9	7265.5
37.5°	7624.7	7587.8	7633.9	7762.8	7656.9	7518.8	7721.4	7753.6	7730.6	7698.3	7643.1
40°	7919.3	7910.1	8002.2	8172.6	8020.6	7993.0	8029.8	8117.3	8144.9	8177.2	8103.5
42.5°	8416.6	8458.0	8725.1	8683.6	8559.3	8462.6	8453.4	8780.3	8702.1	8619.2	8577.7
45°	9153.3	9116.4	9254.6	9259.2	9098.0	8886.2	8932.3	9231.6	9365.1	9180.9	9250.0
47.5°	9738.0	9756.4	9853.1	10051.1	9678.2	9457.2	9627.5	10111.0	10069.5	10000.5	10064.9
50°	10520.7	10603.6	10907.5	10838.4	10506.9	10235.3	10608.2	11064.1	11114.7	10861.5	10815.4
52.5°	11602.8	11731.7	11897.4	11952.7	11635.0	11538.3	11561.3	12127.6	12003.3	11759.3	11602.8
55°	12551.2	12611.1	12915.0	13370.8	13347.8	12882.7	13149.8	13361.6	12855.1	12353.2	12394.7
57.5°	12956.4	12984.0	13831.2	14742.9	15286.2	15392.1	15088.2	14374.5	13168.2	12201.3	12141.5
60°	11948.1	12210.5	13232.7	15290.8	17772.5	18997.2	16975.9	14489.6	12436.1	11262.0	11174.6
62.5°	9549.2	9563.1	11082.5	14204.2	19319.5	22528.7	17698.8	13407.6	10483.9	9153.3	8803.4
64°	6800.5	6929.4	8674.4	12574.3	18997.2	23965.2	17611.3	11994.1	8642.2	6754.5	6510.4
65°	4880.5	5060.1	6745.3	10916.7	18242.1	23794.9	17348.9	10778.6	6989.3	5156.8	4908.1
67.5°	1795.7	1869.3	2647.5	5460.7	13099.1	20277.2	13748.3	5925.7	3071.0	2187.0	1966.0
70°	833.4	838.0	980.7	1804.9	5727.7	13559.6	6561.1	2223.9	1155.7	916.2	851.8
72.5°	612.4	626.2	686.0	833.4	1685.2	5741.5	2154.8	911.6	676.8	598.6	584.7
75°	497.3	506.5	524.9	603.2	778.1	1537.8	874.8	630.8	538.7	483.4	465.0
77.5°	382.2	382.2	423.6	460.4	515.7	718.3	580.1	501.9	437.4	382.2	368.3
80°	276.3	280.9	331.5	359.1	349.9	474.2	419.0	414.4	359.1	299.3	276.3
82.5°	161.1	175.0	239.4	257.8	248.6	280.9	303.9	322.3	280.9	207.2	188.8
85°	92.1	96.7	138.1	142.7	142.7	133.5	175.0	193.4	188.8	128.9	115.1
87.5°	27.6	27.6	36.8	36.8	41.4	46.0	69.1	82.9	92.1	64.5	59.9
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°	136°	145°	155°	165°	175°	180°
0°	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0
2.5°	4774.6	4705.6	4710.2	4728.6	4668.7	4691.7	4760.8	4710.2	4696.4	4668.7	4654.9
5°	4751.6	4825.3	4797.6	4806.9	4793.0	4728.6	4719.4	4760.8	4783.8	4742.4	4825.3
7.5°	4912.8	4880.5	4843.7	4857.5	4825.3	4880.5	4917.4	4834.5	4875.9	4852.9	4806.9
10°	5004.8	4945.0	4972.6	4963.4	4940.4	4995.6	4958.8	4949.6	4912.8	4862.1	4935.8
12.5°	5037.1	5106.1	5152.2	5073.9	5087.7	5060.1	5037.1	5037.1	4995.6	4981.8	4995.6
15°	5179.8	5239.7	5221.2	5281.1	5202.8	5230.4	5258.1	5189.0	5225.8	5124.5	5202.8
17.5°	5442.2	5391.6	5456.1	5377.8	5405.4	5460.7	5373.2	5373.2	5400.8	5345.6	5276.5
20°	5608.0	5585.0	5562.0	5566.6	5520.5	5571.2	5543.5	5529.7	5488.3	5506.7	5543.5
22.5°	5764.5	5732.3	5741.5	5755.3	5787.6	5764.5	5750.7	5764.5	5663.2	5755.3	5626.4
25°	5957.9	6045.4	6017.8	6077.6	5985.5	6045.4	6040.8	5953.3	6008.6	5971.7	5944.1
27.5°	6280.2	6234.2	6275.6	6201.9	6266.4	6271.0	6215.8	6363.1	6298.6	6289.4	6271.0
30°	6694.6	6662.4	6634.7	6593.3	6644.0	6602.5	6648.6	6662.4	6602.5	6556.5	6469.0
32.5°	6929.4	7016.9	7049.1	6947.8	6952.4	6975.5	6934.0	6892.6	6929.4	6943.2	6929.4
35°	7260.9	7343.8	7362.2	7284.0	7242.5	7357.6	7274.7	7412.9	7293.2	7297.8	7173.4
37.5°	7647.7	7670.7	7827.3	7739.8	7702.9	7647.7	7799.6	7781.2	7808.8	7587.8	7698.3
40°	8085.1	8168.0	8255.5	8034.4	8029.8	8080.5	8071.3	8177.2	8126.5	8094.3	8016.0
42.5°	8563.9	8738.9	8752.7	8605.4	8513.3	8504.1	8550.1	8784.9	8789.5	8577.7	8485.7
45°	9199.3	9392.7	9342.1	9056.6	8955.3	8941.5	9167.1	9268.4	9355.9	9273.0	9194.7
47.5°	9991.3	10120.2	10083.3	9820.9	9494.0	9586.1	9807.1	10124.8	10032.7	9922.2	9830.1
50°	10838.4	10990.4	10912.1	10649.7	10336.6	10336.6	10608.2	11013.4	10985.8	10769.4	10686.5
52.5°	11777.7	11998.7	12178.3	11805.3	11542.9	11584.3	12012.5	12159.9	12090.8	11938.9	11869.8
55°	12477.6	12901.2	13269.5	13287.9	13301.7	13297.1	13407.6	13555.0	13062.3	12818.3	12569.6
57.5°	12307.2	13108.3	14369.9	15226.3	15479.5	15613.1	15576.2	14894.8	13729.9	12928.8	13011.7
60°	11091.7	12399.3	14434.4	17183.1	19024.8	18840.7	18168.4	15474.9	13361.6	12007.9	11837.6
62.5°	8849.4	10424.1	13352.4	17735.6	22809.5	22754.3	19236.6	14135.1	11133.1	9420.3	9314.4
64°	6667.0	8324.5	11911.2	17592.9	24135.6	24190.8	18965.0	12486.8	8711.3	6667.0	6505.8
65°	5101.5	6639.4	10497.7	17298.2	23850.1	23882.3	18209.9	10783.2	6620.9	4733.2	4558.2
67.5°	2030.5	2827.0	5695.5	13117.6	20479.8	20392.3	12993.2	5216.6	2532.3	1648.3	1616.1
70°	865.6	1077.4	1998.3	6215.8	13711.5	13458.3	5594.2	1694.4	939.3	787.3	782.7
72.5°	594.0	658.4	856.4	1920.0	5700.1	5566.6	1593.1	787.3	640.0	589.3	589.3
75°	478.8	524.9	621.6	805.7	1510.2	1454.9	750.5	580.1	511.1	474.2	469.6
77.5°	372.9	419.0	488.1	557.1	690.6	686.0	501.9	437.4	396.0	368.3	359.1
80°	294.7	340.7	386.8	396.0	451.2	442.0	340.7	345.3	322.3	267.0	262.4
82.5°	202.6	276.3	308.5	280.9	267.0	267.0	244.0	244.0	225.6	165.8	151.9
85°	124.3	184.2	193.4	165.8	124.3	124.3	133.5	128.9	119.7	87.5	82.9
87.5°	64.5	87.5	78.3	64.5	41.4	41.4	36.8	27.6	27.6	23.0	23.0
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)