

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: P478992

Luminaire Tested: **IFLD-S-SA6C-750-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478992  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

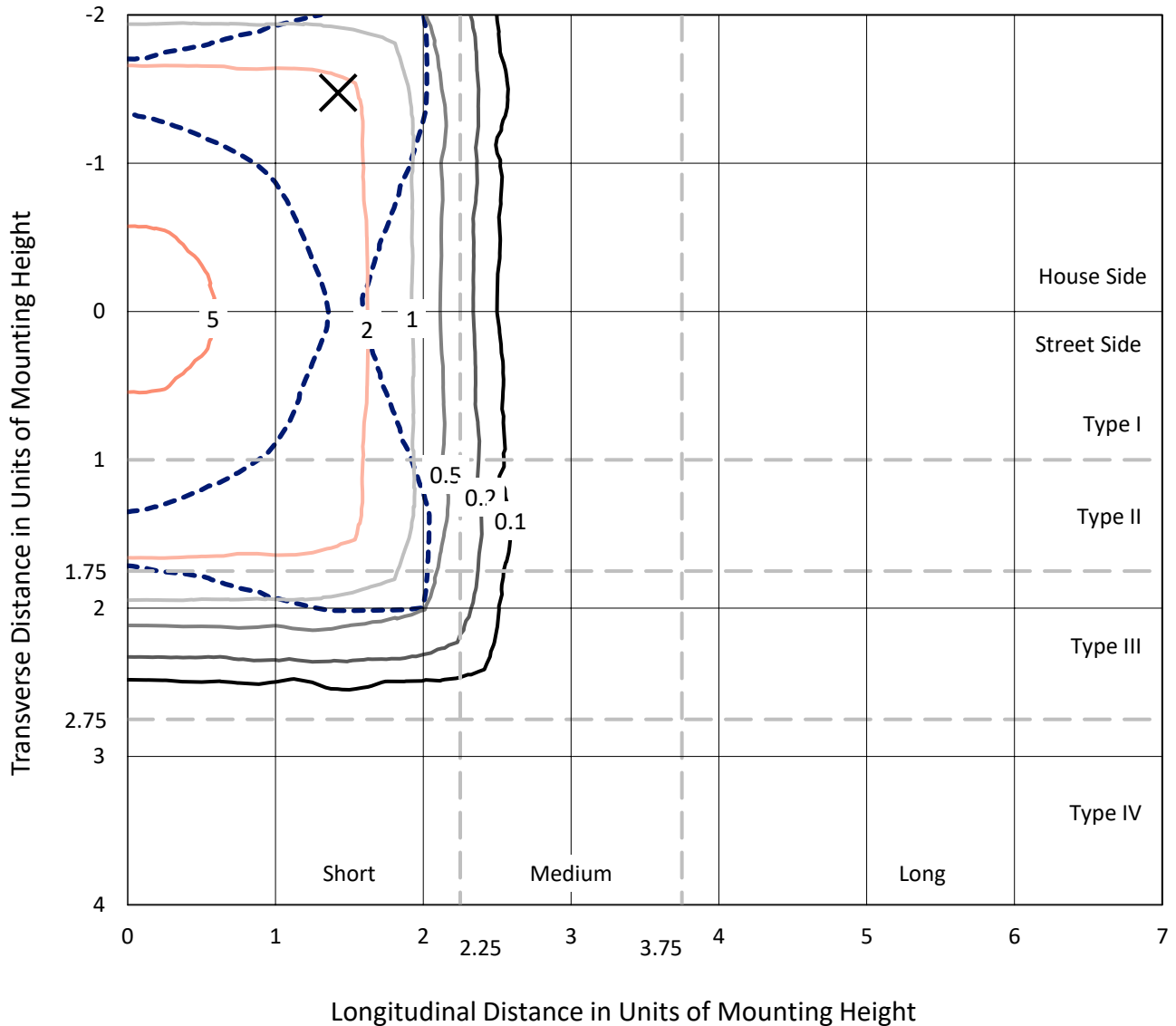
Lumens per Lamp: N/A  
Luminaire Lumens: 42391.7 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5  
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

REPORT NUMBER: P478992  
 CATALOG NUMBER: IFLD-S-SA6C-750-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

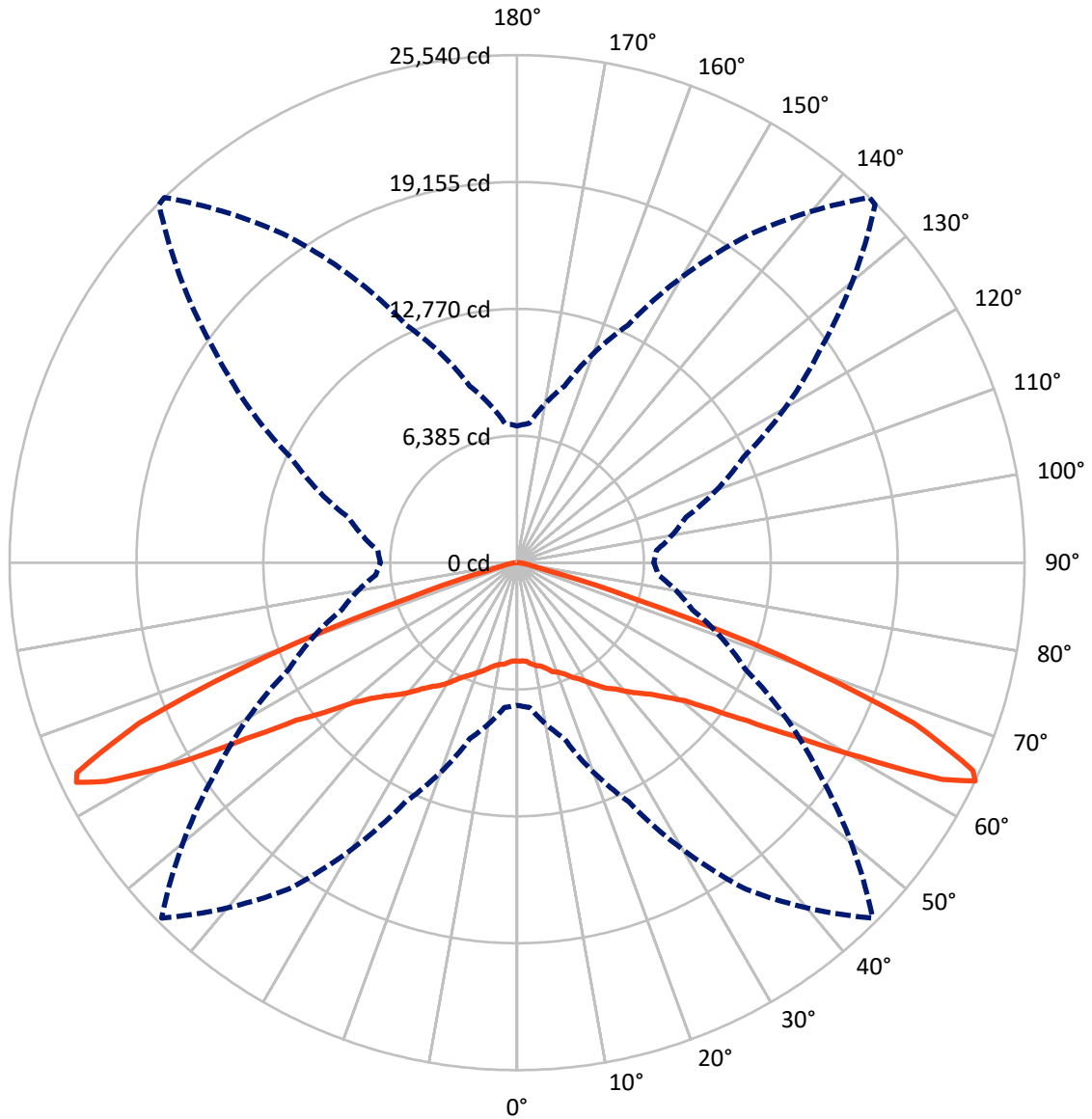
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P478992  
CATALOG NUMBER: IFLD-S-SA6C-750-U-5NQ

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: IFLD-S-SA6C-750-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21216.1	0.0	21216.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21175.7	0.0	21175.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42391.7	0.0	42391.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.7	1.2
10°-20°	1571.8	3.7
20°-30°	2954.0	7.0
30°-40°	4871.6	11.5
40°-50°	7618.9	18.0
50°-60°	12310.3	29.0
60°-70°	11084.6	26.1
70°-80°	1313.0	3.1
80°-90°	179.7	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°	42391.7	100.0
0°-180°	42391.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478992

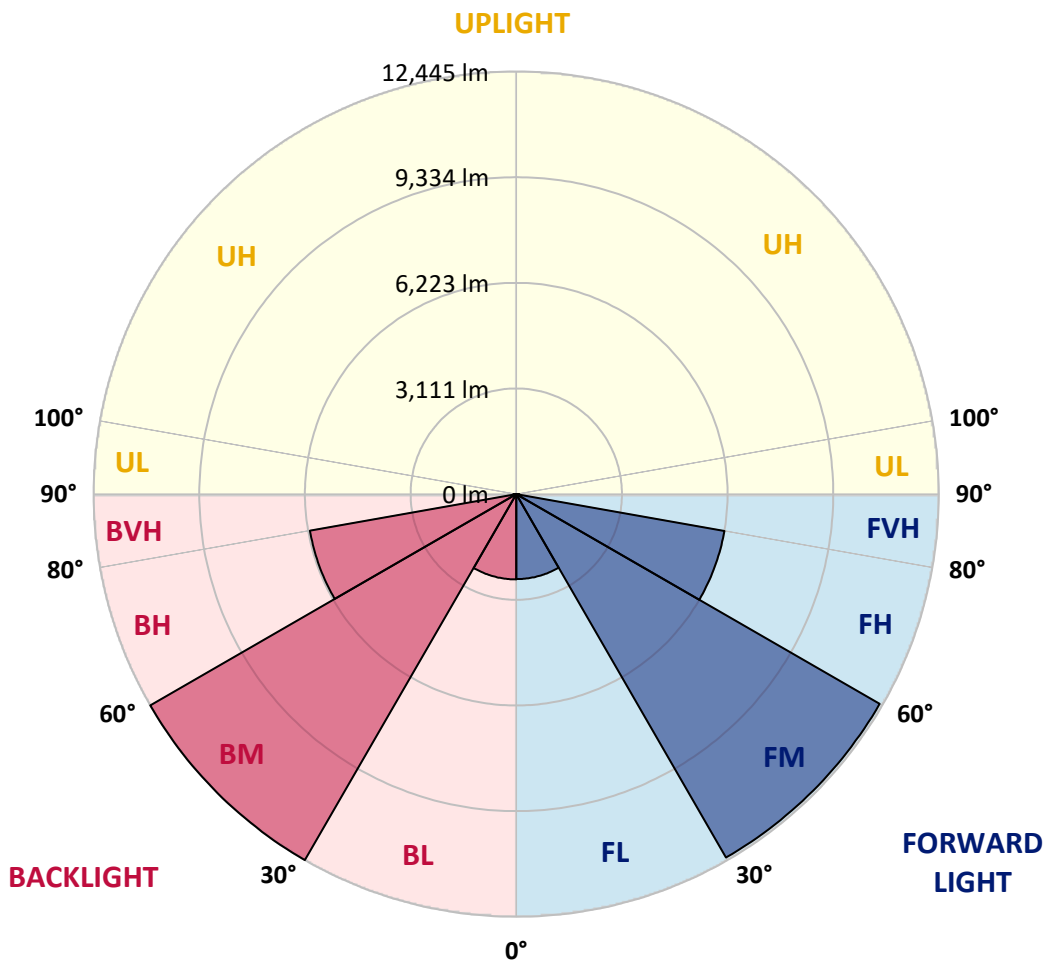
CATALOG NUMBER: IFLD-S-SA6C-750-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.9	5.9			
FM (30°-60°)	12355.9	29.1			
FH (60°-80°)	6225.7	14.7			G3/7500
FVH (80°-90°)	92.2	0.2			G1/100
BL (0°-30°)	2511.5	5.9	B4/5000		
BM (30°-60°)	12445.0	29.4	B5		
BH (60°-80°)	6172.0	14.6	B5		G3/7500
BVH (80°-90°)	87.5	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





REPORT NUMBER: P478992

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2
2.5°	4904.9	4914.6	5002.1	4968.1	4997.2	4943.8	4982.6	5065.3	4968.1	5041.0	5065.3
5°	4958.3	4972.9	4972.9	5006.9	5026.4	5016.7	5041.0	5006.9	5099.3	5060.4	5118.8
7.5°	5152.8	5128.5	5089.6	5118.8	5123.6	5147.9	5172.2	5216.0	5201.4	5167.4	5225.7
10°	5186.8	5167.4	5225.7	5230.6	5206.3	5186.8	5211.1	5211.1	5254.9	5264.6	5264.6
12.5°	5245.1	5264.6	5259.7	5298.6	5303.5	5288.9	5327.8	5400.7	5381.3	5395.8	5361.8
15°	5468.8	5444.4	5439.6	5478.5	5541.7	5449.3	5517.4	5512.5	5493.1	5522.2	5444.4
17.5°	5663.2	5585.4	5619.4	5682.6	5658.3	5677.8	5765.3	5687.5	5706.9	5672.9	5648.6
20°	5833.3	5770.1	5775.0	5799.3	5799.3	5857.6	5891.7	5862.5	5843.1	5838.2	5847.9
22.5°	6022.9	5950.0	5954.9	6056.9	6091.0	6071.5	6047.2	6095.8	6105.6	6066.7	6110.4
25°	6163.9	6241.7	6266.0	6314.6	6241.7	6295.1	6275.7	6368.1	6426.4	6348.6	6402.1
27.5°	6533.3	6499.3	6562.5	6557.6	6616.0	6562.5	6596.5	6625.7	6650.0	6654.9	6630.6
30°	6863.9	6878.5	6815.3	6985.4	6849.3	6936.8	6995.1	7009.7	7038.9	7038.9	6966.0
32.5°	7213.9	7184.7	7286.8	7247.9	7223.6	7291.7	7228.5	7427.8	7311.1	7379.2	7296.5
35°	7607.6	7607.6	7646.5	7753.5	7607.6	7563.9	7680.6	7763.2	7763.2	7641.7	7670.8
37.5°	8050.0	8011.1	8059.7	8195.8	8084.0	7938.2	8152.1	8186.1	8161.8	8127.8	8069.5
40°	8361.1	8351.4	8448.6	8628.5	8468.1	8438.9	8477.8	8570.1	8599.3	8633.3	8555.6
42.5°	8886.1	8929.9	9211.8	9168.1	9036.8	8934.7	8925.0	9270.1	9187.5	9100.0	9056.3
45°	9663.9	9625.0	9770.8	9775.7	9605.6	9382.0	9430.6	9746.5	9887.5	9693.1	9766.0
47.5°	10281.3	10300.7	10402.8	10611.8	10218.1	9984.7	10164.6	10675.0	10631.3	10558.3	10626.4
50°	11107.6	11195.1	11516.0	11443.1	11093.1	10806.3	11200.0	11681.3	11734.7	11467.4	11418.8
52.5°	12250.0	12386.1	12561.1	12619.5	12284.0	12182.0	12206.3	12804.2	12672.9	12415.3	12250.0
55°	13251.4	13314.6	13635.4	14116.7	14092.4	13601.4	13883.3	14107.0	13572.2	13042.4	13086.1
57.5°	13679.2	13708.3	14602.8	15565.3	16138.9	16250.7	15929.9	15176.4	13902.8	12882.0	12818.8
60°	12614.6	12891.7	13970.8	16143.8	18763.9	20057.0	17922.9	15297.9	13129.9	11890.3	11797.9
62.5°	10082.0	10096.5	11700.7	14996.5	20397.2	23785.4	18686.1	14155.6	11068.8	9663.9	9294.5
64°	7179.9	7316.0	9158.3	13275.7	20057.0	25302.1	18593.8	12663.2	9124.3	7131.3	6873.6
65°	5152.8	5342.4	7121.5	11525.7	19259.7	25122.2	18316.7	11379.9	7379.2	5444.4	5181.9
67.5°	1895.8	1973.6	2795.1	5765.3	13829.9	21408.4	14515.3	6256.3	3242.4	2309.0	2075.7
70°	879.9	884.7	1035.4	1905.6	6047.2	14316.0	6927.1	2347.9	1220.1	967.4	899.3
72.5°	646.5	661.1	724.3	879.9	1779.2	6061.8	2275.0	962.5	714.6	631.9	617.4
75°	525.0	534.7	554.2	636.8	821.5	1623.6	923.6	666.0	568.8	510.4	491.0
77.5°	403.5	403.5	447.2	486.1	544.4	758.3	612.5	529.9	461.8	403.5	388.9
80°	291.7	296.5	350.0	379.2	369.4	500.7	442.4	437.5	379.2	316.0	291.7
82.5°	170.1	184.7	252.8	272.2	262.5	296.5	320.8	340.3	296.5	218.8	199.3
85°	97.2	102.1	145.8	150.7	150.7	141.0	184.7	204.2	199.3	136.1	121.5
87.5°	29.2	29.2	38.9	38.9	43.8	48.6	72.9	87.5	97.2	68.1	63.2
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°	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2	4963.2
2.5°	5041.0	4968.1	4972.9	4992.4	4929.2	4953.5	5026.4	4972.9	4958.3	4929.2	4914.6
5°	5016.7	5094.4	5065.3	5075.0	5060.4	4992.4	4982.6	5026.4	5050.7	5006.9	5094.4
7.5°	5186.8	5152.8	5113.9	5128.5	5094.4	5152.8	5191.7	5104.2	5147.9	5123.6	5075.0
10°	5284.0	5220.8	5250.0	5240.3	5216.0	5274.3	5235.4	5225.7	5186.8	5133.3	5211.1
12.5°	5318.1	5391.0	5439.6	5356.9	5371.5	5342.4	5318.1	5318.1	5274.3	5259.7	5274.3
15°	5468.8	5531.9	5512.5	5575.7	5493.1	5522.2	5551.4	5478.5	5517.4	5410.4	5493.1
17.5°	5745.8	5692.4	5760.4	5677.8	5706.9	5765.3	5672.9	5672.9	5702.1	5643.8	5570.8
20°	5920.8	5896.5	5872.2	5877.1	5828.5	5881.9	5852.8	5838.2	5794.4	5813.9	5852.8
22.5°	6086.1	6052.1	6061.8	6076.4	6110.4	6086.1	6071.5	6086.1	5979.2	6076.4	5940.3
25°	6290.3	6382.6	6353.5	6416.7	6319.4	6382.6	6377.8	6285.4	6343.8	6304.9	6275.7
27.5°	6630.6	6581.9	6625.7	6547.9	6616.0	6620.8	6562.5	6718.1	6650.0	6640.3	6620.8
30°	7068.1	7034.0	7004.9	6961.1	7014.6	6970.8	7019.5	7034.0	6970.8	6922.2	6829.9
32.5°	7316.0	7408.3	7442.4	7335.4	7340.3	7364.6	7320.8	7277.1	7316.0	7330.6	7316.0
35°	7666.0	7753.5	7772.9	7690.3	7646.5	7768.1	7680.6	7826.4	7700.0	7704.9	7573.6
37.5°	8074.3	8098.6	8263.9	8171.5	8132.6	8074.3	8234.7	8215.3	8244.5	8011.1	8127.8
40°	8536.1	8623.6	8716.0	8482.6	8477.8	8531.3	8521.5	8633.3	8579.9	8545.8	8463.2
42.5°	9041.7	9226.4	9241.0	9085.4	8988.2	8978.5	9027.1	9275.0	9279.9	9056.3	8959.0
45°	9712.5	9916.7	9863.2	9561.8	9454.9	9440.3	9678.5	9785.4	9877.8	9790.3	9707.6
47.5°	10548.6	10684.7	10645.8	10368.8	10023.6	10120.8	10354.2	10689.6	10592.4	10475.7	10378.5
50°	11443.1	11603.5	11520.8	11243.8	10913.2	10913.2	11200.0	11627.8	11598.6	11370.1	11282.6
52.5°	12434.7	12668.1	12857.6	12463.9	12186.8	12230.6	12682.6	12838.2	12765.3	12604.9	12532.0
55°	13173.6	13620.8	14009.7	14029.2	14043.8	14038.9	14155.6	14311.1	13791.0	13533.3	13270.8
57.5°	12993.8	13839.6	15171.5	16075.7	16343.1	16484.0	16445.2	15725.7	14495.8	13650.0	13737.5
60°	11710.4	13091.0	15239.6	18141.7	20086.1	19891.7	19182.0	16338.2	14107.0	12677.8	12497.9
62.5°	9343.1	11005.6	14097.2	18725.0	24082.0	24023.6	20309.7	14923.6	11754.2	9945.8	9834.0
64°	7038.9	8788.9	12575.7	18574.3	25482.0	25540.3	20022.9	13183.3	9197.2	7038.9	6868.8
65°	5386.1	7009.7	11083.3	18263.2	25180.6	25214.6	19225.7	11384.7	6990.3	4997.2	4812.5
67.5°	2143.8	2984.7	6013.2	13849.3	21622.2	21529.9	13718.1	5507.6	2673.6	1740.3	1706.3
70°	913.9	1137.5	2109.7	6562.5	14476.4	14209.0	5906.3	1788.9	991.7	831.3	826.4
72.5°	627.1	695.1	904.2	2027.1	6018.1	5877.1	1681.9	831.3	675.7	622.2	622.2
75°	505.6	554.2	656.3	850.7	1594.4	1536.1	792.4	612.5	539.6	500.7	495.8
77.5°	393.8	442.4	515.3	588.2	729.2	724.3	529.9	461.8	418.1	388.9	379.2
80°	311.1	359.7	408.3	418.1	476.4	466.7	359.7	364.6	340.3	281.9	277.1
82.5°	213.9	291.7	325.7	296.5	281.9	281.9	257.6	257.6	238.2	175.0	160.4
85°	131.3	194.4	204.2	175.0	131.3	131.3	141.0	136.1	126.4	92.4	87.5
87.5°	68.1	92.4	82.6	68.1	43.8	43.8	38.9	29.2	29.2	24.3	24.3
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)