

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: P479280

Luminaire Tested: **IFLD-L-SA8C-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479280  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

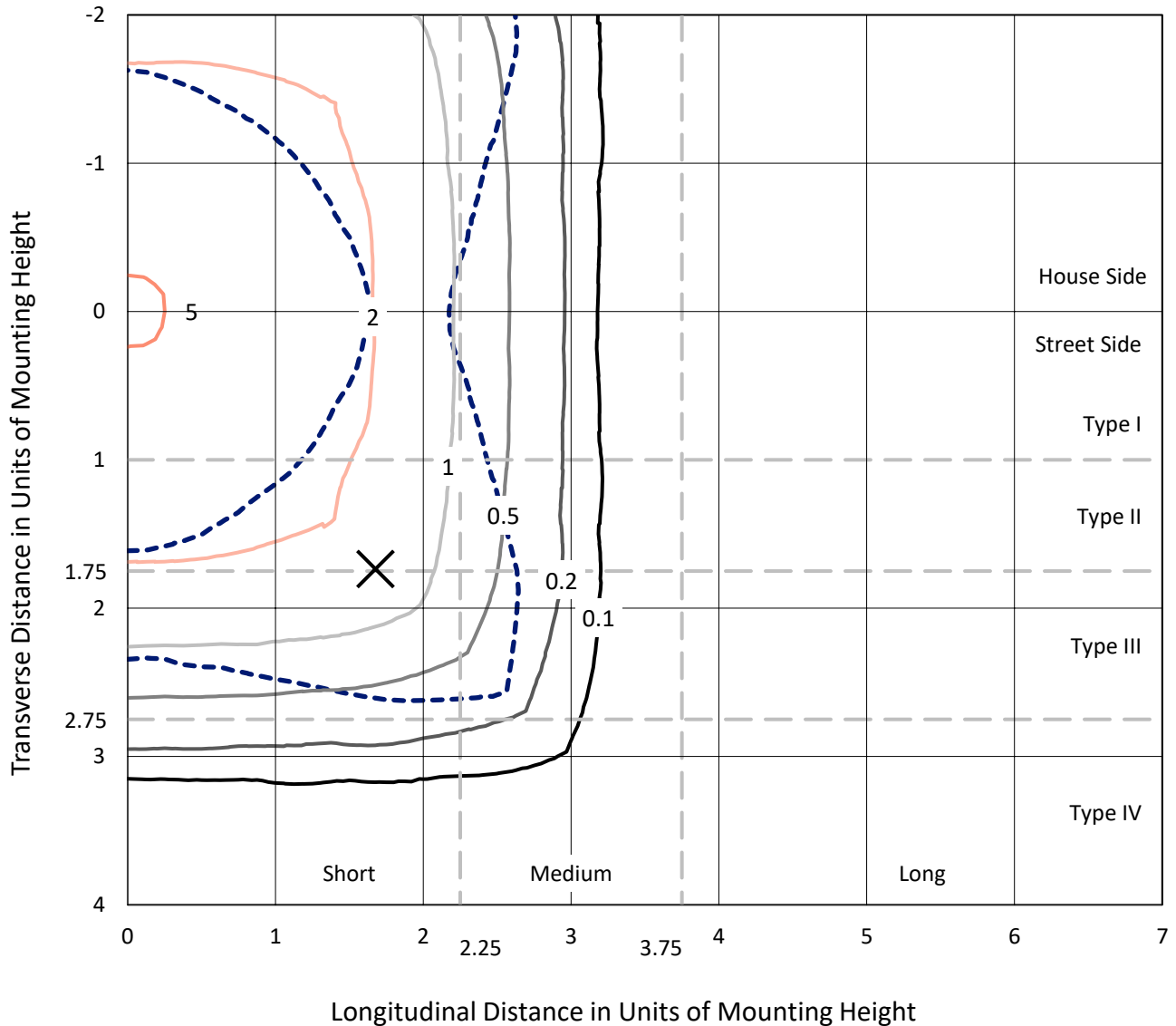
Lumens per Lamp: N/A  
Luminaire Lumens: 46568.7 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

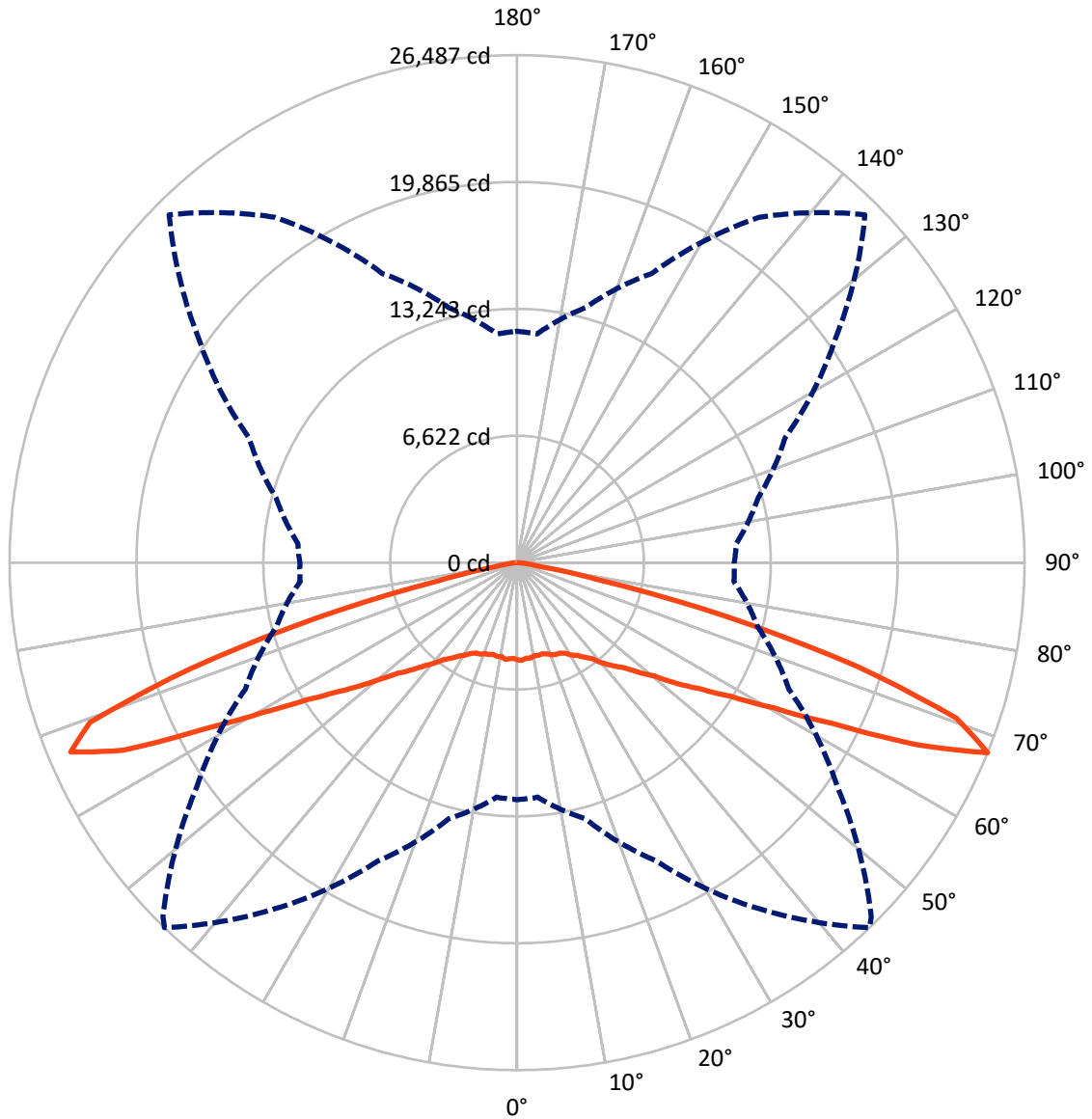
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	23224.7	0.0	23224.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	23344.0	0.0	23344.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	46568.7	0.0	46568.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.4	1.0
10°-20°	1406.3	3.0
20°-30°	2391.5	5.1
30°-40°	3791.8	8.1
40°-50°	6182.9	13.3
50°-60°	10559.5	22.7
60°-70°	16060.9	34.5
70°-80°	5413.5	11.6
80°-90°	281.1	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°	46568.7	100.0
0°-180°	46568.7	100.0



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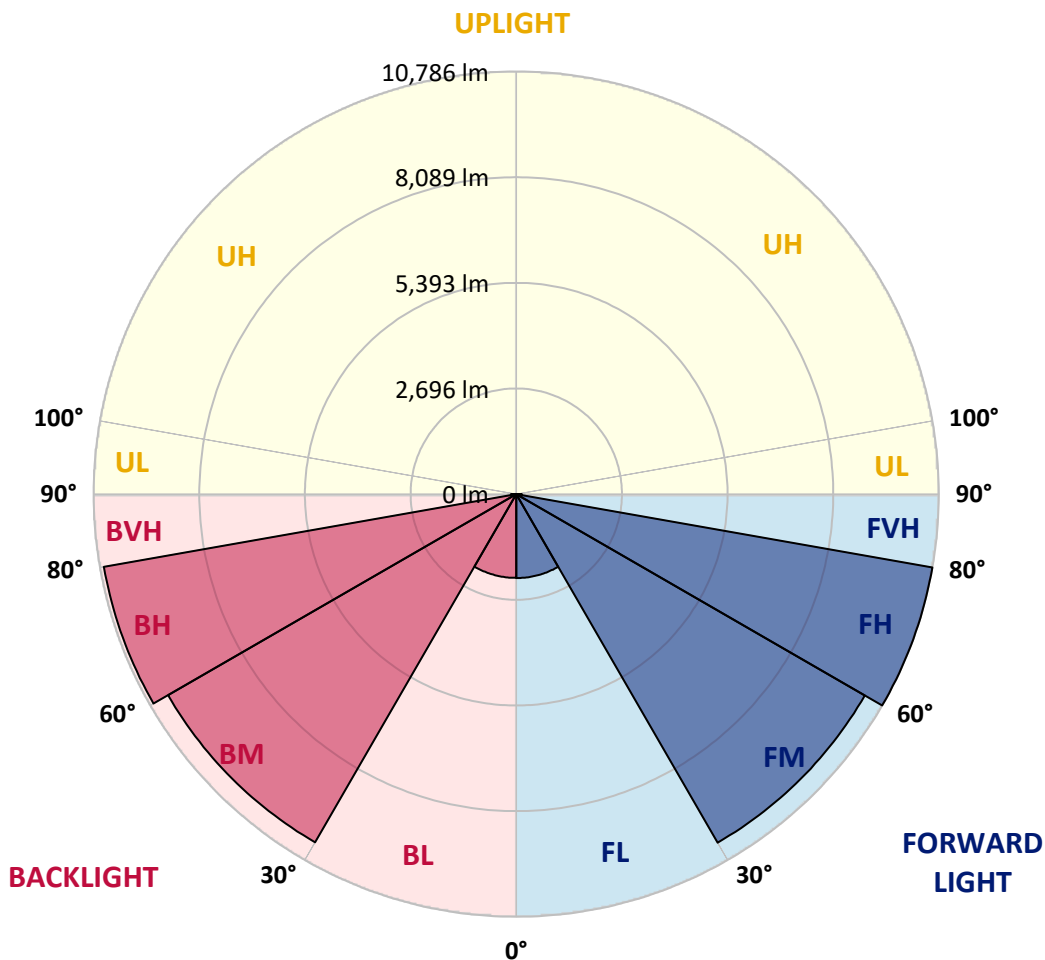
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.8	4.6			
FM (30°-60°)	10272.6	22.1			
FH (60°-80°)	10785.8	23.2			G4/12000
FVH (80°-90°)	143.8	0.3			G2/225
BL (0°-30°)	2137.4	4.6	B3/2500		
BM (30°-60°)	10261.5	22.0	B5		
BH (60°-80°)	10688.5	23.0	B5		G4/12000
BVH (80°-90°)	137.3	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°	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8
2.5°	4969.9	5028.4	5070.9	5065.6	5081.5	5097.5	5076.2	5108.1	5086.8	5124.0	5145.3
5°	5065.6	5049.6	5054.9	5023.0	5097.5	5012.4	5012.4	5054.9	5108.1	5044.3	5081.5
7.5°	5007.1	4996.5	4969.9	5017.7	5033.7	5033.7	5076.2	4996.5	5086.8	5108.1	5113.4
10°	4943.3	4884.8	4964.6	5012.4	5023.0	4938.0	4975.2	4996.5	4969.9	4996.5	5012.4
12.5°	4890.2	4922.0	4922.0	4922.0	4906.1	4964.6	5001.8	4996.5	4943.3	4991.1	4906.1
15°	4884.8	4868.9	4916.7	4959.3	4932.7	4943.3	4959.3	5007.1	4906.1	4927.4	4927.4
17.5°	4879.5	4900.8	4916.7	4911.4	5001.8	5001.8	4985.8	4953.9	5033.7	4991.1	4932.7
20°	4900.8	4884.8	4927.4	4943.3	5007.1	5134.7	5086.8	5060.2	5017.7	4964.6	4964.6
22.5°	4927.4	4916.7	4975.2	5044.3	5166.6	5198.4	5193.1	5161.2	5086.8	5023.0	5012.4
25°	5023.0	4927.4	4991.1	5124.0	5166.6	5230.3	5272.9	5230.3	5129.3	5145.3	5049.6
27.5°	5166.6	5150.6	5235.7	5326.0	5288.8	5347.3	5310.1	5342.0	5347.3	5267.5	5171.9
30°	5336.6	5288.8	5342.0	5517.4	5533.3	5597.1	5533.3	5448.3	5474.8	5405.7	5357.9
32.5°	5581.2	5565.2	5666.2	5783.1	5804.4	5772.5	5740.6	5788.5	5676.8	5623.7	5538.6
35°	5740.6	5809.7	5932.0	6022.3	6091.4	6059.5	6075.5	6027.6	6054.2	5942.6	5905.4
37.5°	6213.7	6187.1	6213.7	6367.8	6383.8	6367.8	6383.8	6436.9	6399.7	6304.0	6208.4
40°	6660.2	6617.7	6681.4	6856.8	6846.2	6899.4	6793.1	6851.5	6851.5	6670.8	6633.6
42.5°	6995.0	7138.6	7213.0	7356.5	7409.6	7361.8	7340.5	7351.2	7468.1	7255.5	7175.8
45°	7686.0	7680.7	7904.0	7983.7	7834.9	7824.3	7781.7	7909.3	7989.0	7866.8	7834.9
47.5°	8435.5	8472.7	8600.3	8632.2	8722.6	8557.8	8557.8	8573.7	8855.4	8568.4	8419.6
50°	9110.6	9158.4	9413.6	9663.4	9493.3	9317.9	9387.0	9472.0	9626.2	9355.1	9227.5
52.5°	9929.1	10189.6	10359.7	10492.6	10614.8	10492.6	10333.1	10428.8	10731.8	10370.3	10210.9
55°	11109.2	11316.5	11475.9	11720.4	11821.4	11656.6	11640.7	11630.1	11800.2	11417.5	11199.5
57.5°	12427.4	12342.3	12597.5	12974.9	13341.6	13182.2	13134.3	13145.0	13187.5	12645.3	12480.5
60°	14064.5	14160.2	14463.2	14792.7	15180.7	15404.0	15090.4	14909.7	14946.9	14208.0	13952.9
62.5°	15000.0	15212.6	15898.3	17030.5	17811.9	18508.2	18556.0	17381.3	16594.6	15159.5	14075.1
65°	14548.2	14516.3	15808.0	17902.2	20862.9	22888.1	22585.1	19736.0	16988.0	14707.7	13251.3
67.5°	12374.2	12289.2	13851.9	17174.0	22064.2	26486.6	26141.1	20400.5	15659.1	13012.1	11364.3
70°	7973.1	7951.8	9647.4	13091.8	19698.8	24317.9	24445.5	18529.4	12746.3	9530.5	7898.7
72.5°	2896.9	3072.3	4055.6	7037.6	13378.8	18603.9	18683.6	13719.0	7329.9	4406.5	3247.7
75°	1068.4	1100.3	1281.0	2285.6	6096.7	11422.8	11720.4	6654.9	2604.5	1435.2	1169.4
77.5°	616.6	621.9	685.7	850.5	1807.2	4459.6	4640.3	2019.8	1009.9	765.4	706.9
80°	419.9	414.6	483.7	552.8	722.9	1265.1	1344.8	845.1	637.8	531.5	446.5
82.5°	244.5	260.5	356.1	393.3	441.2	558.1	568.7	526.2	478.4	393.3	292.3
85°	148.8	122.3	196.7	217.9	255.1	249.8	249.8	287.0	308.3	276.4	164.8
87.5°	37.2	37.2	47.8	53.2	69.1	53.2	58.5	111.6	148.8	138.2	85.0
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°	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8	5086.8
2.5°	5097.5	5081.5	5092.1	5150.6	5113.4	5001.8	5028.4	5086.8	5039.0	5012.4	5007.1
5°	5076.2	5108.1	5070.9	5081.5	5118.7	5028.4	5044.3	5118.7	5086.8	5097.5	5039.0
7.5°	5081.5	5097.5	5065.6	5017.7	5017.7	5092.1	5049.6	5060.2	5012.4	5092.1	4985.8
10°	5049.6	5007.1	4969.9	4996.5	4985.8	4964.6	4948.6	4980.5	4932.7	5001.8	4927.4
12.5°	4953.9	4964.6	4953.9	4943.3	4964.6	5017.7	4932.7	4943.3	4868.9	4879.5	4916.7
15°	4916.7	4948.6	4938.0	4996.5	5023.0	4943.3	5007.1	4943.3	4884.8	4852.9	4911.4
17.5°	4932.7	4980.5	4964.6	5007.1	4959.3	5017.7	5028.4	5001.8	4932.7	4906.1	4932.7
20°	4948.6	4932.7	4953.9	5028.4	5097.5	5039.0	5039.0	5023.0	4959.3	4922.0	4922.0
22.5°	4985.8	4959.3	4991.1	5049.6	5070.9	5161.2	5081.5	5044.3	4938.0	4842.3	4932.7
25°	5060.2	5076.2	5097.5	5076.2	5193.1	5182.5	5171.9	5145.3	4980.5	4985.8	4969.9
27.5°	5203.8	5113.4	5140.0	5267.5	5283.5	5326.0	5272.9	5320.7	5145.3	5150.6	5044.3
30°	5379.2	5283.5	5368.5	5480.2	5474.8	5554.6	5528.0	5538.6	5416.4	5347.3	5203.8
32.5°	5570.5	5559.9	5613.0	5682.1	5708.7	5751.2	5745.9	5745.9	5671.5	5490.8	5517.4
35°	5783.1	5857.6	5921.3	5995.8	6006.4	6059.5	5985.1	5995.8	5921.3	5788.5	5831.0
37.5°	6203.1	6197.7	6266.8	6357.2	6367.8	6325.3	6383.8	6357.2	6256.2	6165.8	6096.7
40°	6692.1	6585.8	6649.5	6862.2	6878.1	6803.7	6798.4	6793.1	6718.6	6522.0	6479.5
42.5°	7117.3	7255.5	7244.9	7314.0	7266.1	7228.9	7361.8	7287.4	7228.9	7021.6	6984.4
45°	7664.8	7707.3	7845.5	8068.8	7840.2	7840.2	7930.6	7872.1	7840.2	7686.0	7542.5
47.5°	8345.2	8382.4	8658.8	8674.7	8525.9	8424.9	8706.6	8717.2	8584.4	8467.4	8292.0
50°	9142.5	9158.4	9408.2	9663.4	9498.6	9307.2	9594.3	9705.9	9408.2	9248.8	9030.8
52.5°	10019.5	9971.7	10179.0	10657.4	10497.9	10439.4	10747.7	10774.3	10370.3	10120.5	10179.0
55°	11029.4	10965.6	11529.1	11853.3	11752.3	11646.0	11784.2	11848.0	11523.8	11114.5	11258.0
57.5°	12337.0	12368.9	12650.6	12969.5	13134.3	13160.9	13224.7	13160.9	12831.3	12416.7	12283.9
60°	13644.6	13740.3	14287.8	14888.4	14941.6	15409.3	15324.3	15005.3	14537.6	13947.6	13974.2
62.5°	14128.3	14048.6	14930.9	16398.0	17647.1	18502.9	18125.5	16993.3	15909.0	14835.2	14915.0
65°	13155.6	13352.3	14553.5	16849.8	19560.6	22946.5	20937.3	17806.5	15616.6	14229.3	14075.1
67.5°	11337.7	11486.6	13012.1	15435.9	20246.3	25678.6	22000.4	16658.4	13772.2	11975.6	12071.2
70°	7898.7	7973.1	9466.7	12645.3	18359.3	24232.9	19847.7	12794.1	9509.2	7579.7	7686.0
72.5°	3178.6	3359.3	4342.7	7616.9	13554.2	18412.5	13362.9	6713.3	3944.0	2934.1	2663.0
75°	1174.7	1180.0	1387.3	2620.5	6436.9	11571.6	6027.6	2158.0	1259.7	1031.2	983.3
77.5°	680.4	675.1	722.9	946.1	1865.7	4518.1	1711.6	845.1	685.7	616.6	590.0
80°	425.2	419.9	494.3	627.2	818.6	1238.5	722.9	526.2	462.4	398.7	398.7
82.5°	271.1	276.4	388.0	462.4	499.6	547.5	419.9	372.1	345.5	228.6	223.2
85°	175.4	159.5	271.1	308.3	276.4	244.5	233.9	196.7	180.7	111.6	122.3
87.5°	79.7	85.0	138.2	154.1	101.0	58.5	58.5	42.5	42.5	26.6	26.6
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)