

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: P479515

Luminaire Tested: **IFLD-L-SA8D-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479515  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

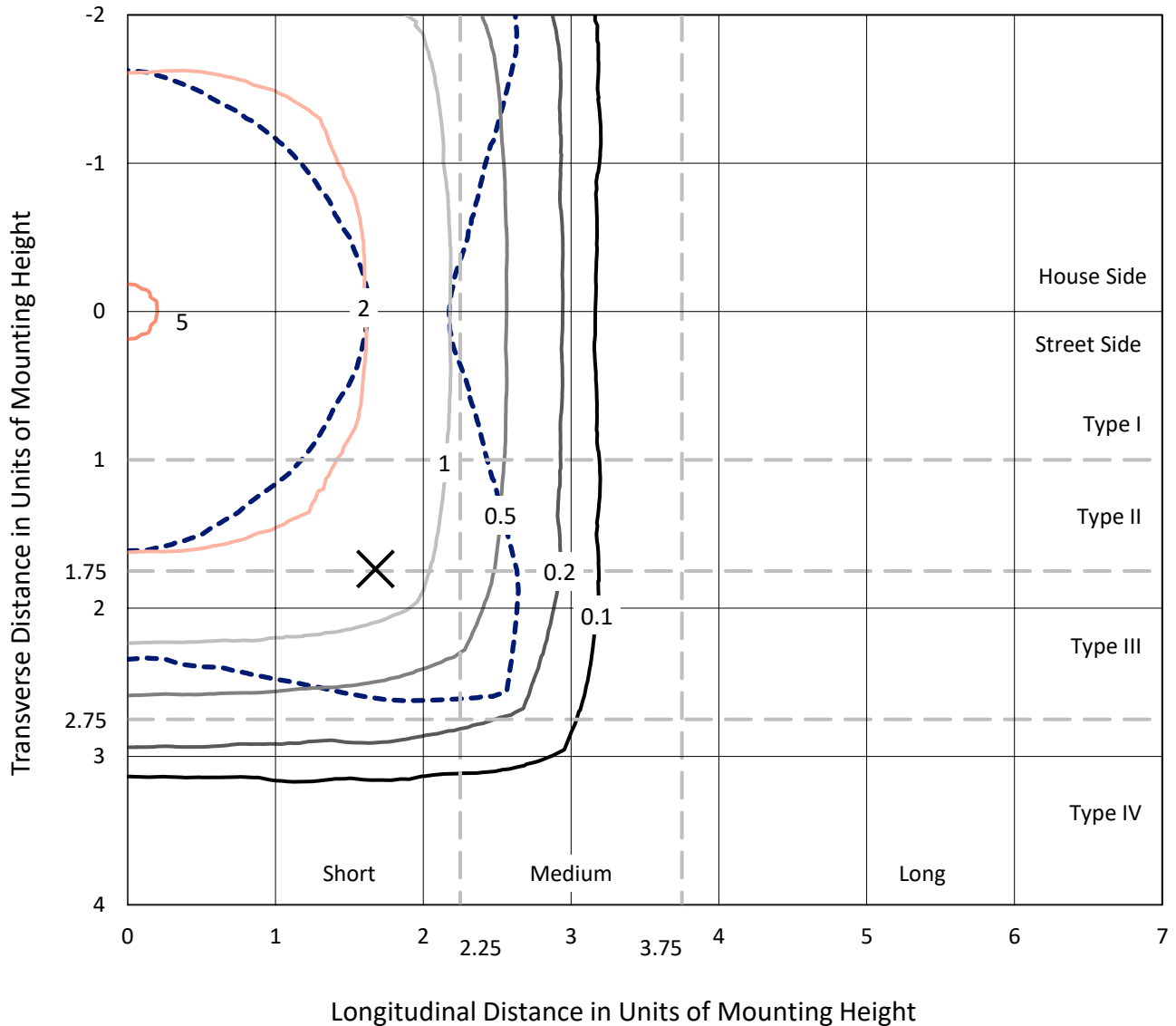
Lumens per Lamp: N/A  
Luminaire Lumens: 44713.9 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

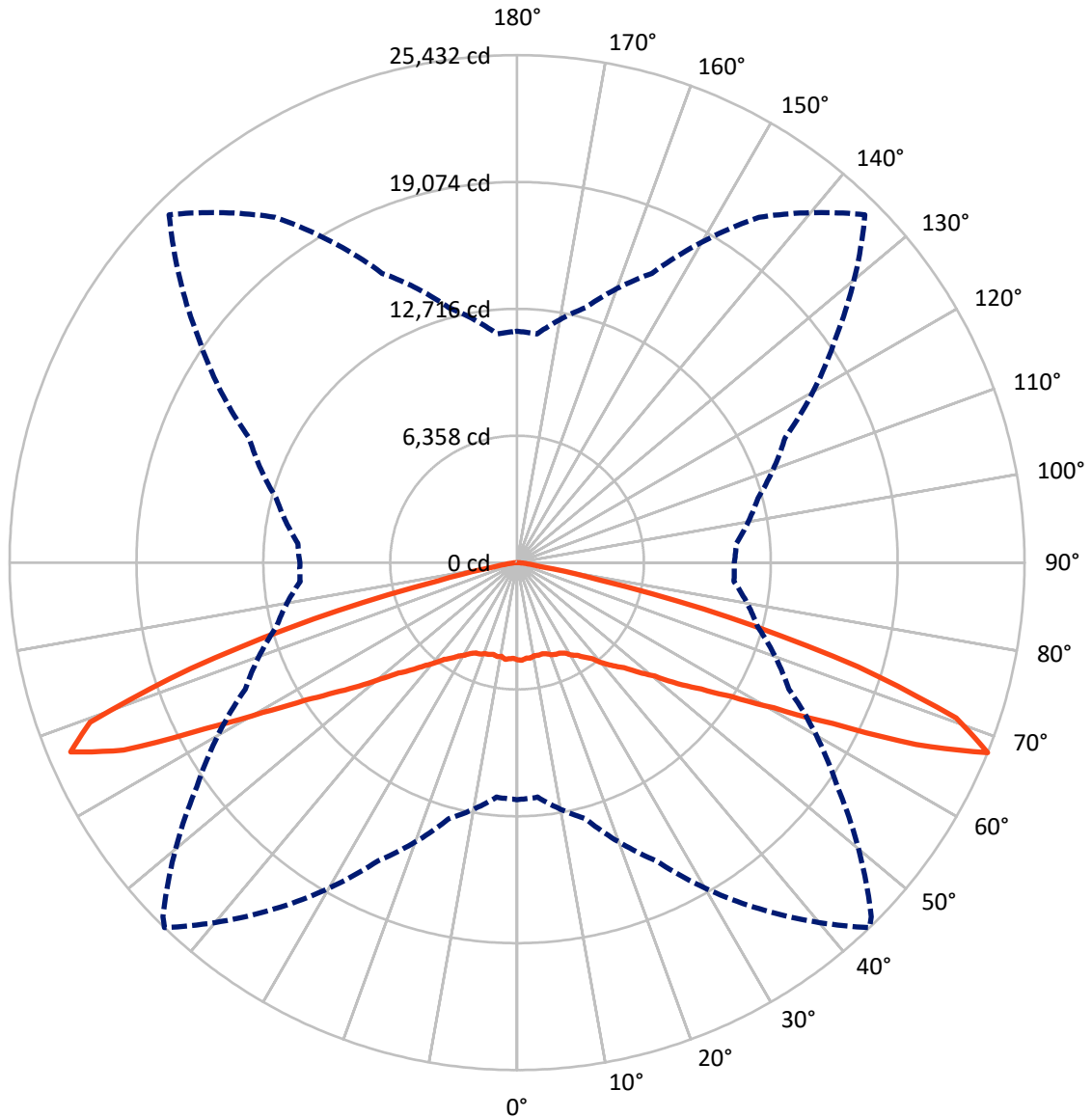
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	22299.7	0.0	22299.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	22414.2	0.0	22414.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	44713.9	0.0	44713.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.2	1.0
10°-20°	1350.3	3.0
20°-30°	2296.2	5.1
30°-40°	3640.8	8.1
40°-50°	5936.6	13.3
50°-60°	10138.9	22.7
60°-70°	15421.1	34.5
70°-80°	5197.9	11.6
80°-90°	269.9	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°	44713.9	100.0
0°-180°	44713.9	100.0

**Coefficient of Utilization**



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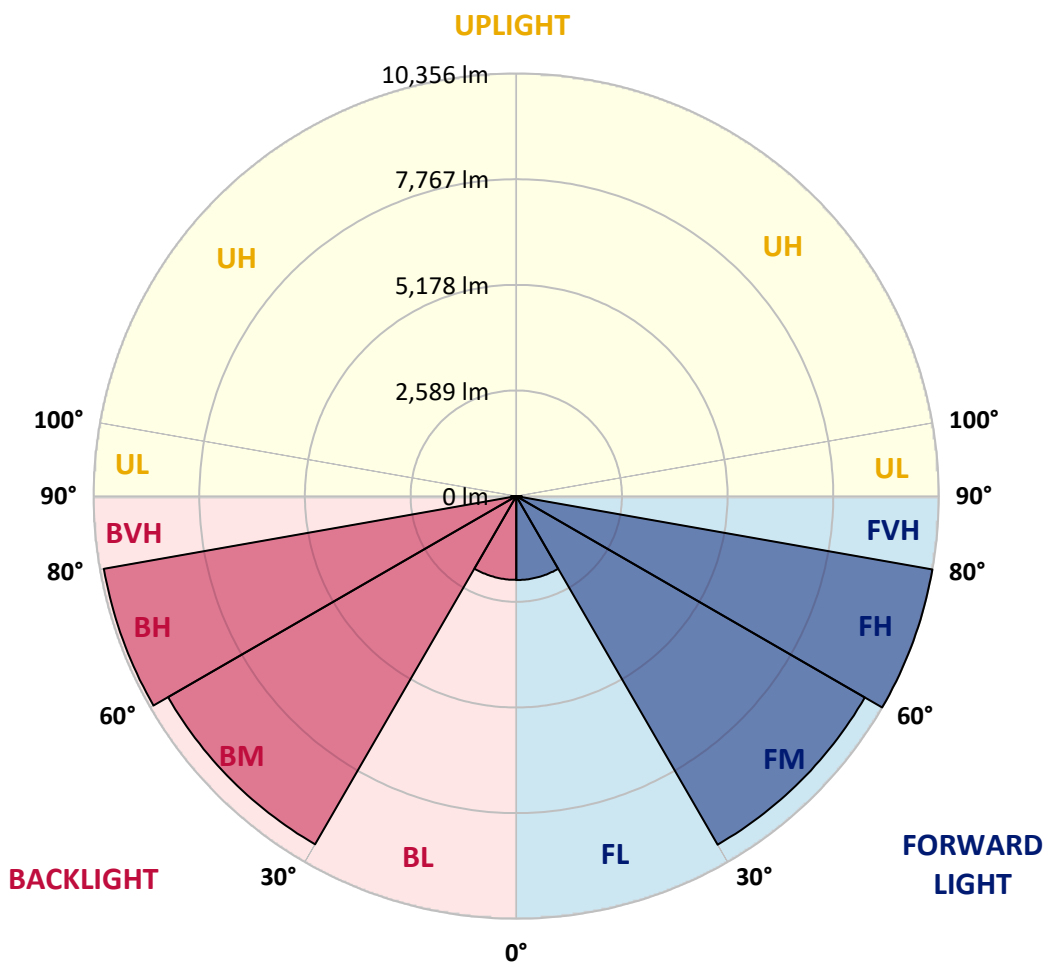
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.5	4.6			
FM (30°-60°)	9863.4	22.1			
FH (60°-80°)	10356.2	23.2			G4/12000
FVH (80°-90°)	138.1	0.3			G2/225
BL (0°-30°)	2052.2	4.6	B3/2500		
BM (30°-60°)	9852.8	22.0	B5		
BH (60°-80°)	10262.8	23.0	B5		G4/12000
BVH (80°-90°)	131.8	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°	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2
2.5°	4771.9	4828.1	4868.9	4863.8	4879.1	4894.4	4874.0	4904.6	4884.2	4919.9	4940.4
5°	4863.8	4848.5	4853.6	4823.0	4894.4	4812.8	4812.8	4853.6	4904.6	4843.4	4879.1
7.5°	4807.7	4797.5	4771.9	4817.9	4833.2	4833.2	4874.0	4797.5	4884.2	4904.6	4909.7
10°	4746.4	4690.3	4766.8	4812.8	4823.0	4741.3	4777.0	4797.5	4771.9	4797.5	4812.8
12.5°	4695.4	4726.0	4726.0	4726.0	4710.7	4766.8	4802.6	4797.5	4746.4	4792.4	4710.7
15°	4690.3	4675.0	4720.9	4761.7	4736.2	4746.4	4761.7	4807.7	4710.7	4731.1	4731.1
17.5°	4685.2	4705.6	4720.9	4715.8	4802.6	4802.6	4787.2	4756.6	4833.2	4792.4	4736.2
20°	4705.6	4690.3	4731.1	4746.4	4807.7	4930.2	4884.2	4858.7	4817.9	4766.8	4766.8
22.5°	4731.1	4720.9	4777.0	4843.4	4960.8	4991.4	4986.3	4955.7	4884.2	4823.0	4812.8
25°	4823.0	4731.1	4792.4	4919.9	4960.8	5022.0	5062.8	5022.0	4925.0	4940.4	4848.5
27.5°	4960.8	4945.5	5027.1	5113.9	5078.2	5134.3	5098.6	5129.2	5134.3	5057.7	4965.9
30°	5124.1	5078.2	5129.2	5297.6	5312.9	5374.2	5312.9	5231.3	5256.8	5190.4	5144.5
32.5°	5358.9	5343.5	5440.5	5552.8	5573.2	5542.6	5512.0	5557.9	5450.7	5399.7	5318.0
35°	5512.0	5578.3	5695.7	5782.5	5848.8	5818.2	5833.5	5787.6	5813.1	5705.9	5670.2
37.5°	5966.2	5940.7	5966.2	6114.2	6129.5	6114.2	6129.5	6180.6	6144.8	6053.0	5961.1
40°	6394.9	6354.1	6415.3	6583.7	6573.5	6624.6	6522.5	6578.6	6578.6	6405.1	6369.4
42.5°	6716.4	6854.2	6925.7	7063.5	7114.5	7068.6	7048.2	7058.4	7170.7	6966.5	6890.0
45°	7379.9	7374.8	7589.2	7665.7	7522.8	7512.6	7471.8	7594.3	7670.8	7553.4	7522.8
47.5°	8099.5	8135.3	8257.7	8288.4	8375.1	8216.9	8216.9	8232.2	8502.7	8227.1	8084.2
50°	8747.7	8793.6	9038.6	9278.5	9115.2	8946.7	9013.1	9094.8	9242.8	8982.5	8860.0
52.5°	9533.7	9783.7	9947.1	10074.7	10192.0	10074.7	9921.5	10013.4	10304.3	9957.3	9804.2
55°	10666.7	10865.7	11018.8	11253.6	11350.6	11192.4	11177.1	11166.8	11330.2	10962.7	10753.4
57.5°	11932.4	11850.7	12095.7	12458.1	12810.2	12657.1	12611.2	12621.4	12662.2	12141.6	11983.4
60°	13504.3	13596.2	13887.1	14203.5	14576.1	14790.5	14489.3	14315.8	14351.5	13642.1	13397.2
62.5°	14402.6	14606.7	15265.1	16352.2	17102.4	17771.0	17816.9	16689.0	15933.7	14555.7	13514.5
65°	13968.8	13938.1	15178.3	17189.2	20031.9	21976.4	21685.5	18950.0	16311.3	14121.9	12723.5
67.5°	11881.4	11799.7	13300.2	16490.0	21185.4	25431.6	25099.9	19587.9	15035.4	12493.8	10911.7
70°	7655.5	7635.1	9263.2	12570.4	18914.2	23349.3	23471.8	17791.4	12238.6	9150.9	7584.1
72.5°	2781.5	2949.9	3894.1	6757.3	12846.0	17862.9	17939.4	13172.6	7038.0	4230.9	3118.3
75°	1025.8	1056.5	1230.0	2194.6	5853.9	10967.8	11253.6	6389.8	2500.8	1378.0	1122.8
77.5°	592.0	597.1	658.4	816.6	1735.2	4282.0	4455.5	1939.4	969.7	734.9	678.8
80°	403.2	398.1	464.4	530.8	694.1	1214.7	1291.2	811.5	612.4	510.4	428.7
82.5°	234.8	250.1	341.9	377.7	423.6	535.9	546.1	505.3	459.3	377.7	280.7
85°	142.9	117.4	188.8	209.3	245.0	239.9	239.9	275.6	296.0	265.4	158.2
87.5°	35.7	35.7	45.9	51.0	66.3	51.0	56.1	107.2	142.9	132.7	81.7
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°	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2	4884.2
2.5°	4894.4	4879.1	4889.3	4945.5	4909.7	4802.6	4828.1	4884.2	4838.3	4812.8	4807.7
5°	4874.0	4904.6	4868.9	4879.1	4914.8	4828.1	4843.4	4914.8	4884.2	4894.4	4838.3
7.5°	4879.1	4894.4	4863.8	4817.9	4817.9	4889.3	4848.5	4858.7	4812.8	4889.3	4787.2
10°	4848.5	4807.7	4771.9	4797.5	4787.2	4766.8	4751.5	4782.1	4736.2	4802.6	4731.1
12.5°	4756.6	4766.8	4756.6	4746.4	4766.8	4817.9	4736.2	4746.4	4675.0	4685.2	4720.9
15°	4720.9	4751.5	4741.3	4797.5	4823.0	4746.4	4807.7	4746.4	4690.3	4659.7	4715.8
17.5°	4736.2	4782.1	4766.8	4807.7	4761.7	4817.9	4828.1	4802.6	4736.2	4710.7	4736.2
20°	4751.5	4736.2	4756.6	4828.1	4894.4	4838.3	4838.3	4823.0	4761.7	4726.0	4726.0
22.5°	4787.2	4761.7	4792.4	4848.5	4868.9	4955.7	4879.1	4843.4	4741.3	4649.4	4736.2
25°	4858.7	4874.0	4894.4	4874.0	4986.3	4976.1	4965.9	4940.4	4782.1	4787.2	4771.9
27.5°	4996.5	4909.7	4935.3	5057.7	5073.1	5113.9	5062.8	5108.8	4940.4	4945.5	4843.4
30°	5164.9	5073.1	5154.7	5261.9	5256.8	5333.3	5307.8	5318.0	5200.6	5134.3	4996.5
32.5°	5348.7	5338.4	5389.5	5455.8	5481.3	5522.2	5517.1	5517.1	5445.6	5272.1	5297.6
35°	5552.8	5624.3	5685.5	5756.9	5767.2	5818.2	5746.7	5756.9	5685.5	5557.9	5598.7
37.5°	5956.0	5950.9	6017.2	6104.0	6114.2	6073.4	6129.5	6104.0	6007.0	5920.3	5853.9
40°	6425.5	6323.5	6384.7	6588.8	6604.2	6532.7	6527.6	6522.5	6451.0	6262.2	6221.4
42.5°	6833.8	6966.5	6956.3	7022.7	6976.7	6941.0	7068.6	6997.1	6941.0	6742.0	6706.2
45°	7359.5	7400.3	7533.0	7747.4	7527.9	7527.9	7614.7	7558.5	7527.9	7379.9	7242.1
47.5°	8012.8	8048.5	8313.9	8329.2	8186.3	8089.3	8359.8	8370.0	8242.4	8130.2	7961.7
50°	8778.3	8793.6	9033.5	9278.5	9120.3	8936.5	9212.1	9319.3	9033.5	8880.4	8671.1
52.5°	9620.4	9574.5	9773.5	10232.9	10079.8	10023.6	10319.6	10345.2	9957.3	9717.4	9773.5
55°	10590.1	10528.9	11069.9	11381.2	11284.2	11182.2	11314.9	11376.1	11064.8	10671.8	10809.6
57.5°	11845.6	11876.3	12146.7	12453.0	12611.2	12636.7	12697.9	12636.7	12320.3	11922.2	11794.6
60°	13101.1	13193.0	13718.7	14295.4	14346.4	14795.6	14713.9	14407.7	13958.6	13392.0	13417.6
62.5°	13565.6	13489.0	14336.2	15744.8	16944.2	17765.9	17403.5	16316.5	15275.3	14244.4	14320.9
65°	12631.6	12820.4	13973.9	16178.7	18781.5	22032.6	20103.4	17097.3	14994.6	13662.5	13514.5
67.5°	10886.1	11029.0	12493.8	14821.1	19439.9	24655.9	21124.1	15994.9	13223.6	11498.6	11590.4
70°	7584.1	7655.5	9089.6	12141.6	17628.1	23267.7	19057.1	12284.5	9130.5	7277.8	7379.9
72.5°	3052.0	3225.5	4169.7	7313.6	13014.4	17679.1	12830.6	6445.9	3786.9	2817.2	2556.9
75°	1127.9	1133.0	1332.1	2516.1	6180.6	11110.7	5787.6	2072.1	1209.6	990.1	944.2
77.5°	653.3	648.2	694.1	908.5	1791.4	4338.1	1643.4	811.5	658.4	592.0	566.5
80°	408.3	403.2	474.6	602.2	786.0	1189.2	694.1	505.3	444.0	382.8	382.8
82.5°	260.3	265.4	372.6	444.0	479.7	525.7	403.2	357.3	331.7	219.5	214.4
85°	168.4	153.1	260.3	296.0	265.4	234.8	224.6	188.8	173.5	107.2	117.4
87.5°	76.6	81.7	132.7	148.0	97.0	56.1	56.1	40.8	40.8	25.5	25.5
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)