

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: P479344

Luminaire Tested: **IFLD-S-SA6D-740-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479344  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-740-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

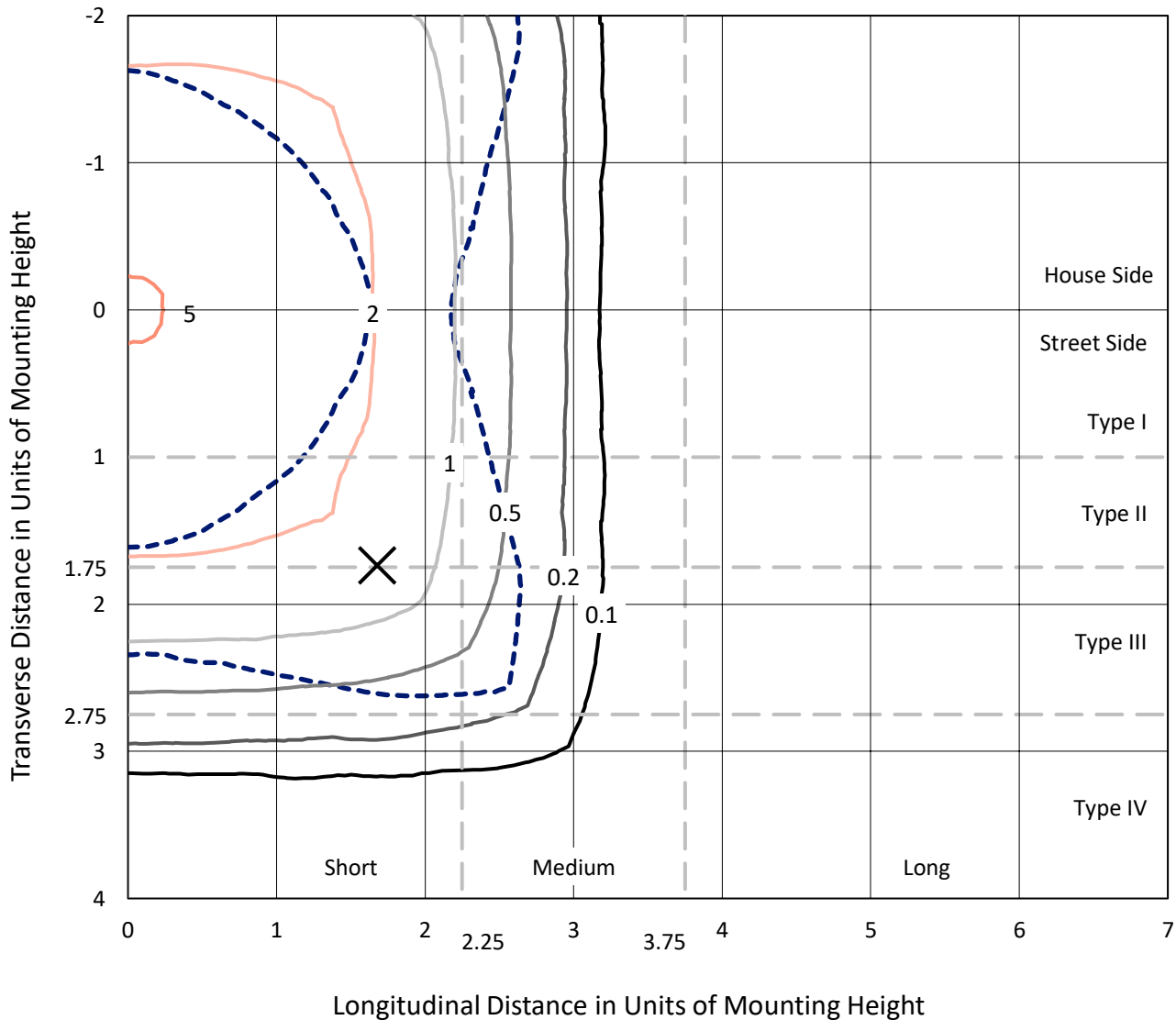
Lumens per Lamp: N/A  
Luminaire Lumens: 46152 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

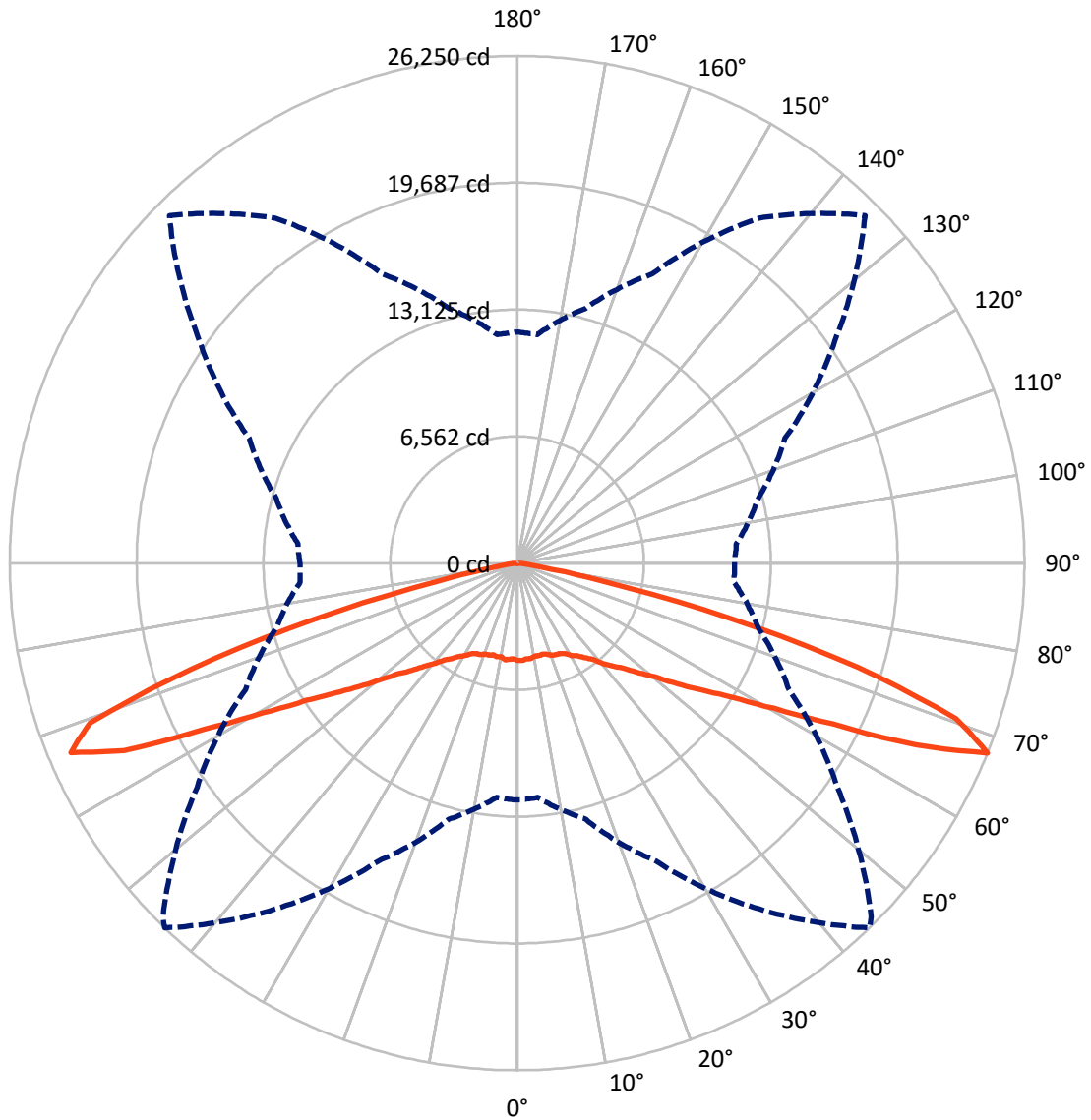
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	23016.9	0.0	23016.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	23135.1	0.0	23135.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	46152.0	0.0	46152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.1	1.0
10°-20°	1393.7	3.0
20°-30°	2370.1	5.1
30°-40°	3757.9	8.1
40°-50°	6127.5	13.3
50°-60°	10465.0	22.7
60°-70°	15917.1	34.5
70°-80°	5365.1	11.6
80°-90°	278.5	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°	46152.0	100.0
0°-180°	46152.0	100.0

**Coefficient of Utilization**



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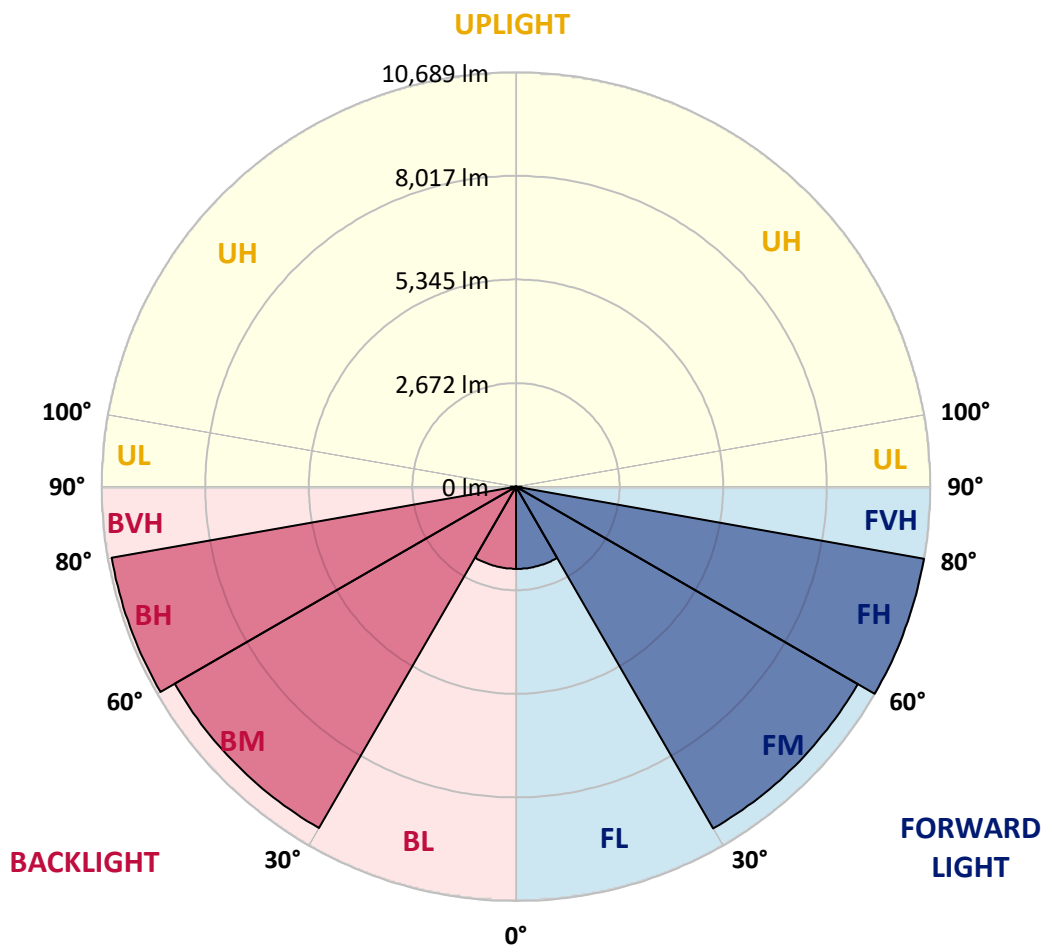
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.6	4.6			
FM (30°-60°)	10180.7	22.1			
FH (60°-80°)	10689.3	23.2			G4/12000
FVH (80°-90°)	142.5	0.3			G2/225
BL (0°-30°)	2118.3	4.6	B3/2500		
BM (30°-60°)	10169.7	22.0	B5		
BH (60°-80°)	10592.9	23.0	B5		G4/12000
BVH (80°-90°)	136.1	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°	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3
2.5°	4925.4	4983.4	5025.5	5020.2	5036.0	5051.8	5030.8	5062.4	5041.3	5078.2	5099.3
5°	5020.2	5004.4	5009.7	4978.1	5051.8	4967.6	4967.6	5009.7	5062.4	4999.2	5036.0
7.5°	4962.3	4951.8	4925.4	4972.8	4988.6	4988.6	5030.8	4951.8	5041.3	5062.4	5067.7
10°	4899.1	4841.1	4920.2	4967.6	4978.1	4893.8	4930.7	4951.8	4925.4	4951.8	4967.6
12.5°	4846.4	4878.0	4878.0	4878.0	4862.2	4920.2	4957.0	4951.8	4899.1	4946.5	4862.2
15°	4841.1	4825.3	4872.7	4914.9	4888.5	4899.1	4914.9	4962.3	4862.2	4883.3	4883.3
17.5°	4835.9	4856.9	4872.7	4867.5	4957.0	4957.0	4941.2	4909.6	4988.6	4946.5	4888.5
20°	4856.9	4841.1	4883.3	4899.1	4962.3	5088.7	5041.3	5015.0	4972.8	4920.2	4920.2
22.5°	4883.3	4872.7	4930.7	4999.2	5120.3	5151.9	5146.7	5115.1	5041.3	4978.1	4967.6
25°	4978.1	4883.3	4946.5	5078.2	5120.3	5183.5	5225.7	5183.5	5083.5	5099.3	5004.4
27.5°	5120.3	5104.5	5188.8	5278.4	5241.5	5299.4	5262.6	5294.2	5299.4	5220.4	5125.6
30°	5288.9	5241.5	5294.2	5468.0	5483.8	5547.0	5483.8	5399.5	5425.9	5357.4	5310.0
32.5°	5531.2	5515.4	5615.5	5731.4	5752.5	5720.9	5689.3	5736.7	5626.0	5573.4	5489.1
35°	5689.3	5757.7	5878.9	5968.5	6036.9	6005.3	6021.1	5973.7	6000.1	5889.4	5852.6
37.5°	6158.1	6131.8	6158.1	6310.9	6326.7	6310.9	6326.7	6379.3	6342.5	6247.6	6152.8
40°	6600.6	6558.4	6621.7	6795.5	6785.0	6837.6	6732.3	6790.2	6790.2	6611.1	6574.3
42.5°	6932.5	7074.7	7148.4	7290.7	7343.4	7295.9	7274.9	7285.4	7401.3	7190.6	7111.6
45°	7617.3	7612.0	7833.3	7912.3	7764.8	7754.2	7712.1	7838.5	7917.5	7796.4	7764.8
47.5°	8360.0	8396.9	8523.3	8555.0	8644.5	8481.2	8481.2	8497.0	8776.2	8491.7	8344.2
50°	9029.1	9076.5	9329.3	9576.9	9408.3	9234.5	9303.0	9387.3	9540.0	9271.4	9145.0
52.5°	9840.3	10098.4	10267.0	10398.7	10519.9	10398.7	10240.7	10335.5	10635.7	10277.5	10119.5
55°	11009.8	11215.2	11373.2	11615.6	11715.7	11552.3	11536.5	11526.0	11694.6	11315.3	11099.3
57.5°	12316.2	12231.9	12484.8	12858.8	13222.3	13064.2	13016.8	13027.3	13069.5	12532.2	12368.9
60°	13938.7	14033.5	14333.8	14660.4	15044.9	15266.2	14955.4	14776.3	14813.1	14080.9	13828.1
62.5°	14865.8	15076.5	15756.1	16878.1	17652.5	18342.6	18390.0	17225.8	16446.2	15023.8	13949.2
65°	14418.0	14386.4	15666.5	17742.0	20676.2	22683.3	22383.0	19559.4	16836.0	14576.1	13132.7
67.5°	12263.5	12179.2	13728.0	17020.4	21866.8	26249.6	25907.2	20217.9	15519.0	12895.6	11262.6
70°	7901.7	7880.7	9561.1	12974.7	19522.6	24100.3	24226.7	18363.7	12632.3	9445.2	7828.0
72.5°	2871.0	3044.8	4019.4	6974.6	13259.1	18437.4	18516.4	13596.3	7264.3	4367.0	3218.6
75°	1058.8	1090.4	1269.5	2265.2	6042.2	11320.6	11615.6	6595.3	2581.2	1422.3	1158.9
77.5°	611.1	616.3	679.5	842.9	1791.1	4419.7	4598.8	2001.8	1000.9	758.6	700.6
80°	416.2	410.9	479.4	547.9	716.4	1253.7	1332.8	837.6	632.1	526.8	442.5
82.5°	242.3	258.1	352.9	389.8	437.2	553.1	563.7	521.5	474.1	389.8	289.7
85°	147.5	121.2	194.9	216.0	252.9	247.6	247.6	284.5	305.5	273.9	163.3
87.5°	36.9	36.9	47.4	52.7	68.5	52.7	57.9	110.6	147.5	137.0	84.3
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°	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3	5041.3
2.5°	5051.8	5036.0	5046.6	5104.5	5067.7	4957.0	4983.4	5041.3	4993.9	4967.6	4962.3
5°	5030.8	5062.4	5025.5	5036.0	5072.9	4983.4	4999.2	5072.9	5041.3	5051.8	4993.9
7.5°	5036.0	5051.8	5020.2	4972.8	4972.8	5046.6	5004.4	5015.0	4967.6	5046.6	4941.2
10°	5004.4	4962.3	4925.4	4951.8	4941.2	4920.2	4904.3	4936.0	4888.5	4957.0	4883.3
12.5°	4909.6	4920.2	4909.6	4899.1	4920.2	4972.8	4888.5	4899.1	4825.3	4835.9	4872.7
15°	4872.7	4904.3	4893.8	4951.8	4978.1	4899.1	4962.3	4899.1	4841.1	4809.5	4867.5
17.5°	4888.5	4936.0	4920.2	4962.3	4914.9	4972.8	4983.4	4957.0	4888.5	4862.2	4888.5
20°	4904.3	4888.5	4909.6	4983.4	5051.8	4993.9	4993.9	4978.1	4914.9	4878.0	4878.0
22.5°	4941.2	4914.9	4946.5	5004.4	5025.5	5115.1	5036.0	4999.2	4893.8	4799.0	4888.5
25°	5015.0	5030.8	5051.8	5030.8	5146.7	5136.1	5125.6	5099.3	4936.0	4941.2	4925.4
27.5°	5157.2	5067.7	5094.0	5220.4	5236.2	5278.4	5225.7	5273.1	5099.3	5104.5	4999.2
30°	5331.0	5236.2	5320.5	5431.1	5425.9	5504.9	5478.5	5489.1	5367.9	5299.4	5157.2
32.5°	5520.7	5510.1	5562.8	5631.3	5657.6	5699.8	5694.5	5694.5	5620.8	5441.7	5468.0
35°	5731.4	5805.1	5868.4	5942.1	5952.6	6005.3	5931.6	5942.1	5868.4	5736.7	5778.8
37.5°	6147.6	6142.3	6210.8	6300.3	6310.9	6268.7	6326.7	6300.3	6200.2	6110.7	6042.2
40°	6632.2	6526.8	6590.1	6800.8	6816.6	6742.8	6737.6	6732.3	6658.5	6463.6	6421.5
42.5°	7053.6	7190.6	7180.1	7248.5	7201.1	7164.2	7295.9	7222.2	7164.2	6958.8	6921.9
45°	7596.2	7638.4	7775.3	7996.6	7770.0	7770.0	7859.6	7801.7	7770.0	7617.3	7475.0
47.5°	8270.5	8307.4	8581.3	8597.1	8449.6	8349.5	8628.7	8639.2	8507.5	8391.7	8217.8
50°	9060.7	9076.5	9324.1	9576.9	9413.6	9224.0	9508.4	9619.1	9324.1	9166.0	8950.0
52.5°	9929.9	9882.4	10087.9	10562.0	10404.0	10346.0	10651.6	10677.9	10277.5	10029.9	10087.9
55°	10930.7	10867.5	11425.9	11747.3	11647.2	11541.8	11678.8	11742.0	11420.7	11015.0	11157.3
57.5°	12226.6	12258.2	12537.4	12853.5	13016.8	13043.1	13106.4	13043.1	12716.5	12305.6	12174.0
60°	13522.5	13617.3	14159.9	14755.2	14807.9	15271.4	15187.2	14871.1	14407.5	13822.8	13849.1
62.5°	14001.9	13922.9	14797.3	16251.3	17489.2	18337.3	17963.3	16841.3	15766.6	14702.5	14781.5
65°	13037.9	13232.8	14423.3	16699.0	19385.6	22741.2	20750.0	17647.2	15476.9	14102.0	13949.2
67.5°	11236.3	11383.8	12895.6	15297.8	20065.2	25448.9	21803.5	16509.4	13648.9	11868.4	11963.2
70°	7828.0	7901.7	9382.0	12532.2	18195.1	24016.0	19670.1	12679.7	9424.1	7511.9	7617.3
72.5°	3150.2	3329.3	4303.8	7548.8	13433.0	18247.8	13243.3	6653.3	3908.7	2907.8	2639.2
75°	1164.2	1169.5	1374.9	2597.0	6379.3	11468.1	5973.7	2138.7	1248.5	1022.0	974.5
77.5°	674.3	669.0	716.4	937.7	1849.0	4477.7	1696.2	837.6	679.5	611.1	584.7
80°	421.4	416.2	489.9	621.6	811.2	1227.4	716.4	521.5	458.3	395.1	395.1
82.5°	268.7	273.9	384.6	458.3	495.2	542.6	416.2	368.7	342.4	226.5	221.2
85°	173.8	158.0	268.7	305.5	273.9	242.3	231.8	194.9	179.1	110.6	121.2
87.5°	79.0	84.3	137.0	152.8	100.1	57.9	57.9	42.1	42.1	26.3	26.3
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)