

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: P479241

Luminaire Tested: **IFLD-L-SA8C-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479241
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

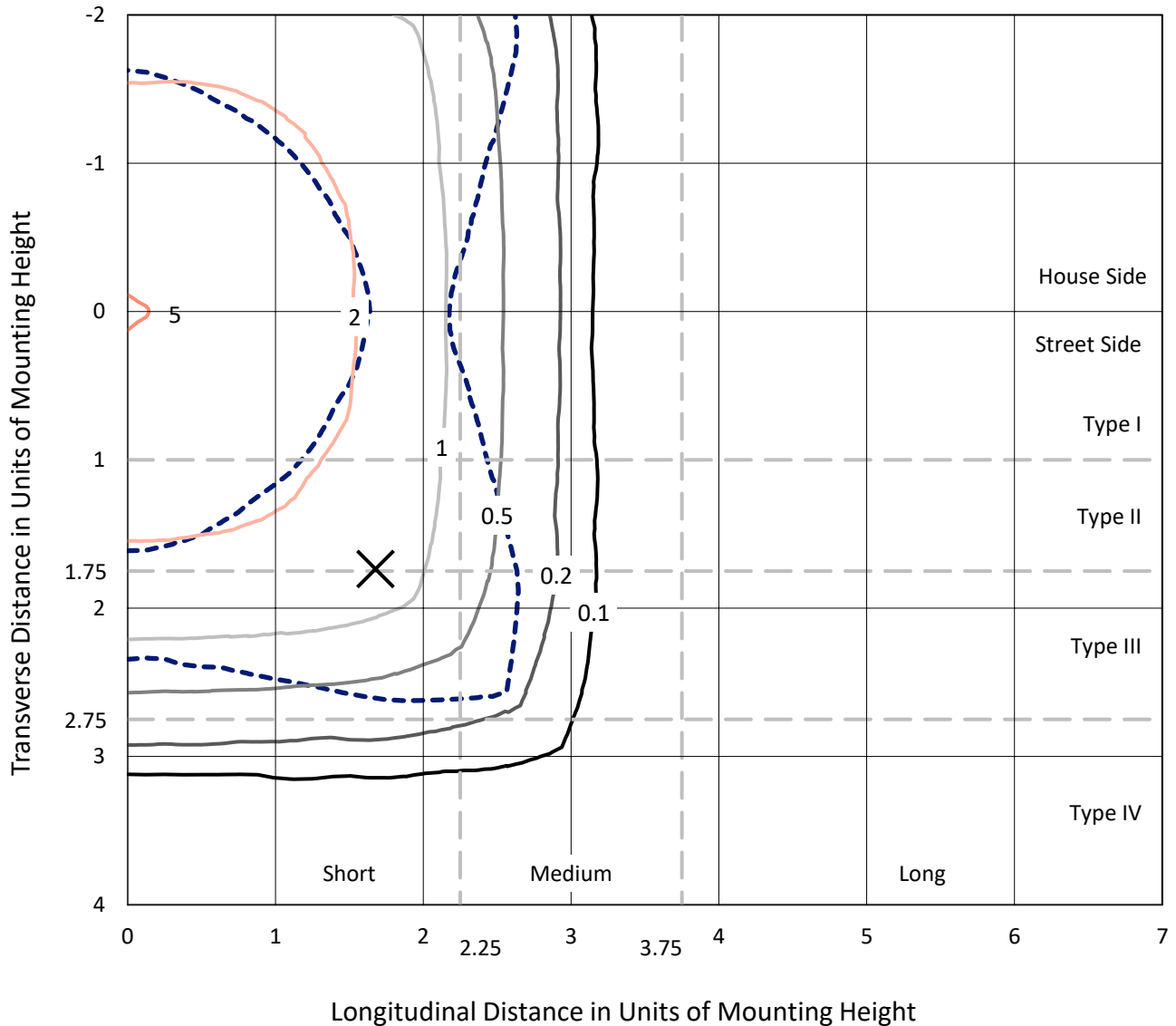
Lumens per Lamp: N/A
Luminaire Lumens: 42768.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

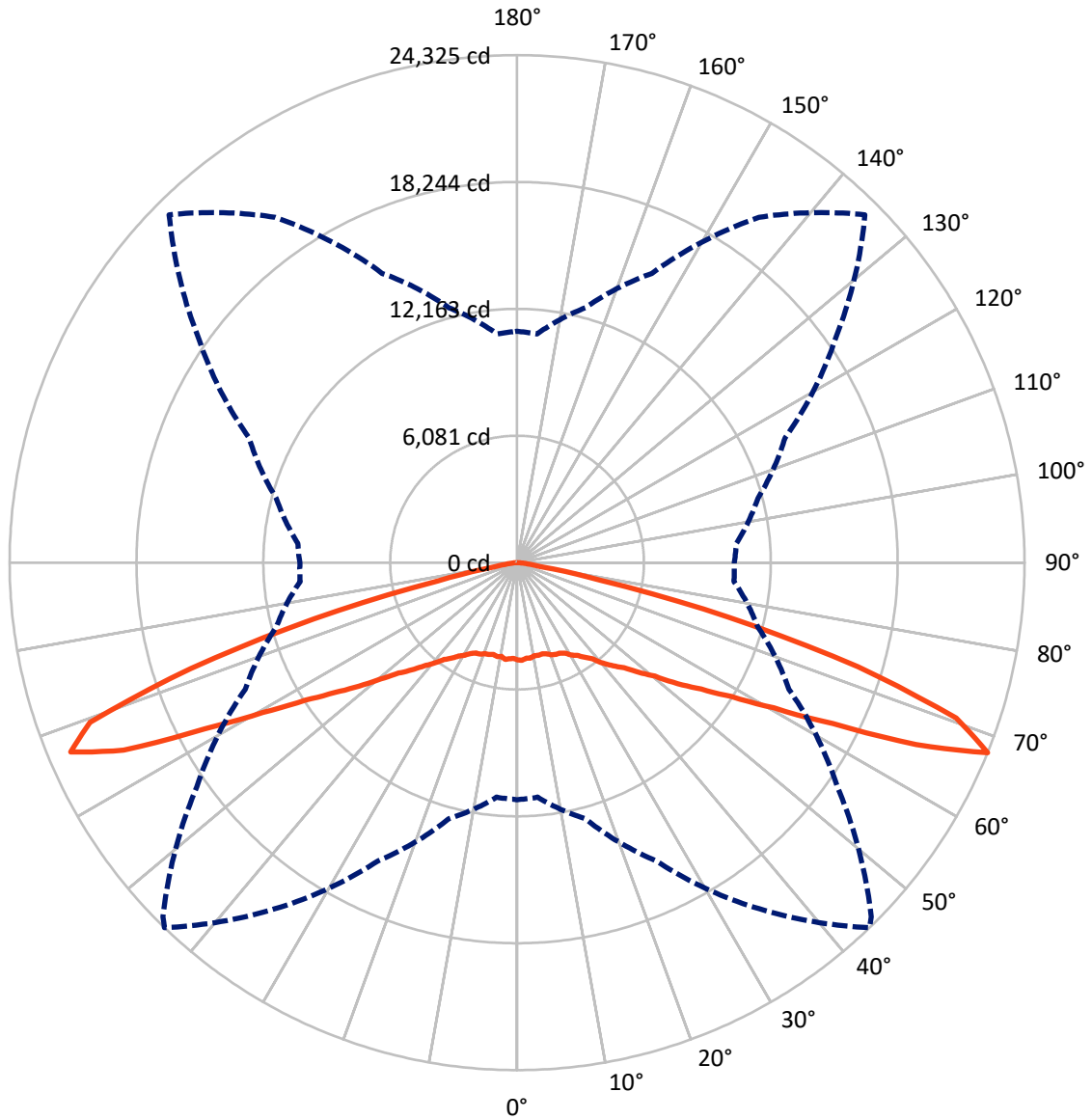
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	21329.7	0.0	21329.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21439.2	0.0	21439.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	42768.9	0.0	42768.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.1	1.0
10°-20°	1291.6	3.0
20°-30°	2196.4	5.1
30°-40°	3482.4	8.1
40°-50°	5678.4	13.3
50°-60°	9697.9	22.7
60°-70°	14750.4	34.5
70°-80°	4971.8	11.6
80°-90°	258.1	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°	42768.9	100.0
0°-180°	42768.9	100.0

Coefficient of Utilization



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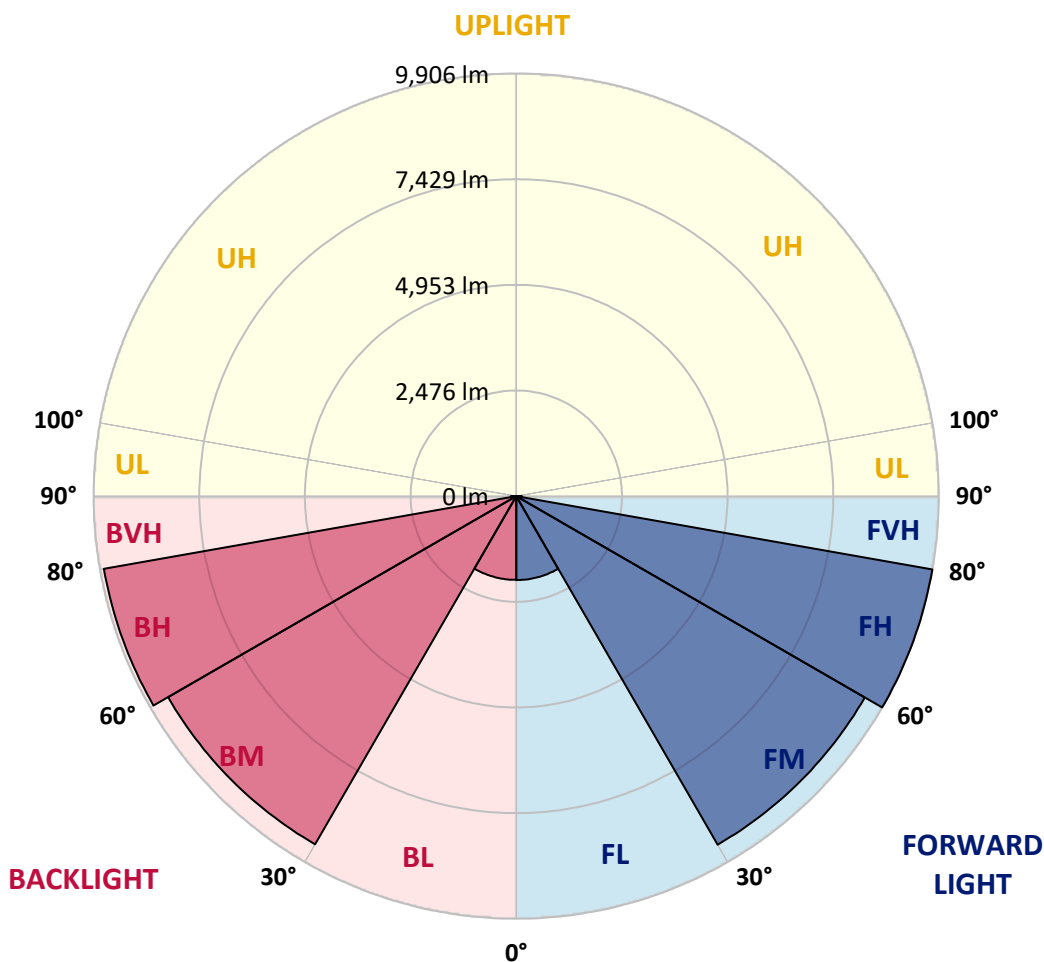
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.0	4.6			
FM (30°-60°)	9434.4	22.1			
FH (60°-80°)	9905.7	23.2			G4/12000
FVH (80°-90°)	132.1	0.3			G2/225
BL (0°-30°)	1963.0	4.6	B3/2500		
BM (30°-60°)	9424.2	22.0	B5		
BH (60°-80°)	9816.4	23.0	B5		G4/12000
BVH (80°-90°)	126.1	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°	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8
2.5°	4564.4	4618.1	4657.1	4652.2	4666.9	4681.5	4662.0	4691.3	4671.8	4705.9	4725.5
5°	4652.2	4637.6	4642.5	4613.2	4681.5	4603.4	4603.4	4642.5	4691.3	4632.7	4666.9
7.5°	4598.5	4588.8	4564.4	4608.3	4623.0	4623.0	4662.0	4588.8	4671.8	4691.3	4696.2
10°	4540.0	4486.3	4559.5	4603.4	4613.2	4535.1	4569.3	4588.8	4564.4	4588.8	4603.4
12.5°	4491.1	4520.4	4520.4	4520.4	4505.8	4559.5	4593.7	4588.8	4540.0	4583.9	4505.8
15°	4486.3	4471.6	4515.6	4554.6	4530.2	4540.0	4554.6	4598.5	4505.8	4525.3	4525.3
17.5°	4481.4	4500.9	4515.6	4510.7	4593.7	4593.7	4579.0	4549.7	4623.0	4583.9	4530.2
20°	4500.9	4486.3	4525.3	4540.0	4598.5	4715.7	4671.8	4647.4	4608.3	4559.5	4559.5
22.5°	4525.3	4515.6	4569.3	4632.7	4745.0	4774.3	4769.4	4740.1	4671.8	4613.2	4603.4
25°	4613.2	4525.3	4583.9	4705.9	4745.0	4803.6	4842.6	4803.6	4710.8	4725.5	4637.6
27.5°	4745.0	4730.3	4808.5	4891.4	4857.3	4911.0	4876.8	4906.1	4911.0	4837.7	4749.9
30°	4901.2	4857.3	4906.1	5067.2	5081.8	5140.4	5081.8	5003.7	5028.1	4964.7	4920.7
32.5°	5125.8	5111.1	5203.9	5311.3	5330.8	5301.5	5272.2	5316.2	5213.6	5164.8	5086.7
35°	5272.2	5335.7	5448.0	5530.9	5594.4	5565.1	5579.8	5535.8	5560.2	5457.7	5423.5
37.5°	5706.7	5682.3	5706.7	5848.3	5862.9	5848.3	5862.9	5911.7	5877.5	5789.7	5701.8
40°	6116.7	6077.7	6136.3	6297.4	6287.6	6336.4	6238.8	6292.5	6292.5	6126.5	6092.3
42.5°	6424.3	6556.1	6624.4	6756.2	6805.1	6761.1	6741.6	6751.4	6858.8	6663.5	6590.3
45°	7058.9	7054.0	7259.1	7332.3	7195.6	7185.8	7146.8	7263.9	7337.2	7224.9	7195.6
47.5°	7747.2	7781.4	7898.6	7927.8	8010.8	7859.5	7859.5	7874.2	8132.9	7869.3	7732.6
50°	8367.2	8411.1	8645.5	8874.9	8718.7	8557.6	8621.0	8699.2	8840.7	8591.8	8474.6
52.5°	9119.0	9358.2	9514.4	9636.4	9748.7	9636.4	9490.0	9577.9	9856.1	9524.2	9377.7
55°	10202.7	10393.1	10539.5	10764.1	10856.9	10705.5	10690.9	10681.1	10837.3	10485.8	10285.7
57.5°	11413.4	11335.3	11569.6	11916.2	12253.0	12106.6	12062.6	12072.4	12111.4	11613.5	11462.2
60°	12916.9	13004.8	13283.1	13585.7	13942.1	14147.1	13859.1	13693.1	13727.3	13048.7	12814.4
62.5°	13776.1	13971.4	14601.1	15640.9	16358.5	16998.0	17041.9	15963.1	15240.6	13922.6	12926.7
65°	13361.2	13331.9	14518.1	16441.5	19160.6	21020.5	20742.3	18125.7	15601.9	13507.6	12170.0
67.5°	11364.6	11286.4	12721.7	15772.7	20263.9	24325.4	24008.1	18735.9	14381.4	11950.4	10437.0
70°	7322.5	7303.0	8860.3	12023.6	18091.5	22333.7	22450.8	17017.5	11706.3	8752.9	7254.2
72.5°	2660.5	2821.6	3724.7	6463.3	12287.2	17085.9	17159.1	12599.6	6731.8	4046.9	2982.7
75°	981.2	1010.5	1176.5	2099.1	5599.3	10490.7	10764.1	6111.9	2392.0	1318.1	1074.0
77.5°	566.3	571.2	629.7	781.1	1659.8	4095.7	4261.7	1855.0	927.5	703.0	649.3
80°	385.7	380.8	444.2	507.7	663.9	1161.8	1235.1	776.2	585.8	488.2	410.1
82.5°	224.6	239.2	327.1	361.2	405.2	512.6	522.3	483.3	439.4	361.2	268.5
85°	136.7	112.3	180.6	200.1	234.3	229.4	229.4	263.6	283.1	253.8	151.3
87.5°	34.2	34.2	43.9	48.8	63.5	48.8	53.7	102.5	136.7	126.9	78.1
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°	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8	4671.8
2.5°	4681.5	4666.9	4676.7	4730.3	4696.2	4593.7	4618.1	4671.8	4627.8	4603.4	4598.5
5°	4662.0	4691.3	4657.1	4666.9	4701.1	4618.1	4632.7	4701.1	4671.8	4681.5	4627.8
7.5°	4666.9	4681.5	4652.2	4608.3	4608.3	4676.7	4637.6	4647.4	4603.4	4676.7	4579.0
10°	4637.6	4598.5	4564.4	4588.8	4579.0	4559.5	4544.8	4574.1	4530.2	4593.7	4525.3
12.5°	4549.7	4559.5	4549.7	4540.0	4559.5	4608.3	4530.2	4540.0	4471.6	4481.4	4515.6
15°	4515.6	4544.8	4535.1	4588.8	4613.2	4540.0	4598.5	4540.0	4486.3	4457.0	4510.7
17.5°	4530.2	4574.1	4559.5	4598.5	4554.6	4608.3	4618.1	4593.7	4530.2	4505.8	4530.2
20°	4544.8	4530.2	4549.7	4618.1	4681.5	4627.8	4627.8	4613.2	4554.6	4520.4	4520.4
22.5°	4579.0	4554.6	4583.9	4637.6	4657.1	4740.1	4666.9	4632.7	4535.1	4447.2	4530.2
25°	4647.4	4662.0	4681.5	4662.0	4769.4	4759.6	4749.9	4725.5	4574.1	4579.0	4564.4
27.5°	4779.2	4696.2	4720.6	4837.7	4852.4	4891.4	4842.6	4886.6	4725.5	4730.3	4632.7
30°	4940.3	4852.4	4930.5	5033.0	5028.1	5101.4	5076.9	5086.7	4974.4	4911.0	4779.2
32.5°	5116.0	5106.2	5155.1	5218.5	5242.9	5282.0	5277.1	5277.1	5208.8	5042.8	5067.2
35°	5311.3	5379.6	5438.2	5506.5	5516.3	5565.1	5496.8	5506.5	5438.2	5316.2	5355.2
37.5°	5696.9	5692.0	5755.5	5838.5	5848.3	5809.2	5862.9	5838.5	5745.7	5662.7	5599.3
40°	6146.0	6048.4	6107.0	6302.2	6316.9	6248.6	6243.7	6238.8	6170.4	5989.8	5950.8
42.5°	6536.6	6663.5	6653.7	6717.2	6673.3	6639.1	6761.1	6692.8	6639.1	6448.7	6414.5
45°	7039.4	7078.4	7205.4	7410.4	7200.5	7200.5	7283.5	7229.8	7200.5	7058.9	6927.1
47.5°	7664.2	7698.4	7952.3	7966.9	7830.2	7737.5	7996.2	8006.0	7883.9	7776.5	7615.4
50°	8396.5	8411.1	8640.6	8874.9	8723.6	8547.8	8811.4	8913.9	8640.6	8494.1	8294.0
52.5°	9202.0	9158.0	9348.4	9787.8	9641.3	9587.6	9870.8	9895.2	9524.2	9294.7	9348.4
55°	10129.5	10070.9	10588.4	10886.1	10793.4	10695.8	10822.7	10881.3	10583.5	10207.6	10339.4
57.5°	11330.4	11359.7	11618.4	11911.3	12062.6	12087.0	12145.6	12087.0	11784.4	11403.6	11281.6
60°	12531.3	12619.1	13122.0	13673.6	13722.4	14152.0	14073.9	13781.0	13351.4	12809.5	12833.9
62.5°	12975.5	12902.3	13712.6	15060.0	16207.2	16993.1	16646.5	15606.7	14610.9	13624.8	13698.0
65°	12082.2	12262.8	13366.0	15474.9	17964.6	21074.2	19228.9	16353.6	14342.4	13068.3	12926.7
67.5°	10412.6	10549.3	11950.4	14176.4	18594.3	23583.4	20205.3	15299.2	12648.4	10998.4	11086.3
70°	7254.2	7322.5	8694.3	11613.5	16861.3	22255.6	18228.2	11750.2	8733.3	6961.3	7058.9
72.5°	2919.2	3085.2	3988.3	6995.4	12448.3	16910.1	12272.5	6165.6	3622.2	2694.7	2445.7
75°	1078.9	1083.7	1274.1	2406.7	5911.7	10627.4	5535.8	1982.0	1157.0	947.0	903.1
77.5°	624.9	620.0	663.9	868.9	1713.5	4149.4	1571.9	776.2	629.7	566.3	541.9
80°	390.5	385.7	454.0	576.0	751.8	1137.4	663.9	483.3	424.7	366.1	366.1
82.5°	249.0	253.8	356.4	424.7	458.9	502.8	385.7	341.7	317.3	209.9	205.0
85°	161.1	146.5	249.0	283.1	253.8	224.6	214.8	180.6	166.0	102.5	112.3
87.5°	73.2	78.1	126.9	141.6	92.8	53.7	53.7	39.1	39.1	24.4	24.4
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)