

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: P478846

Luminaire Tested: **IFLD-L-SA7C-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

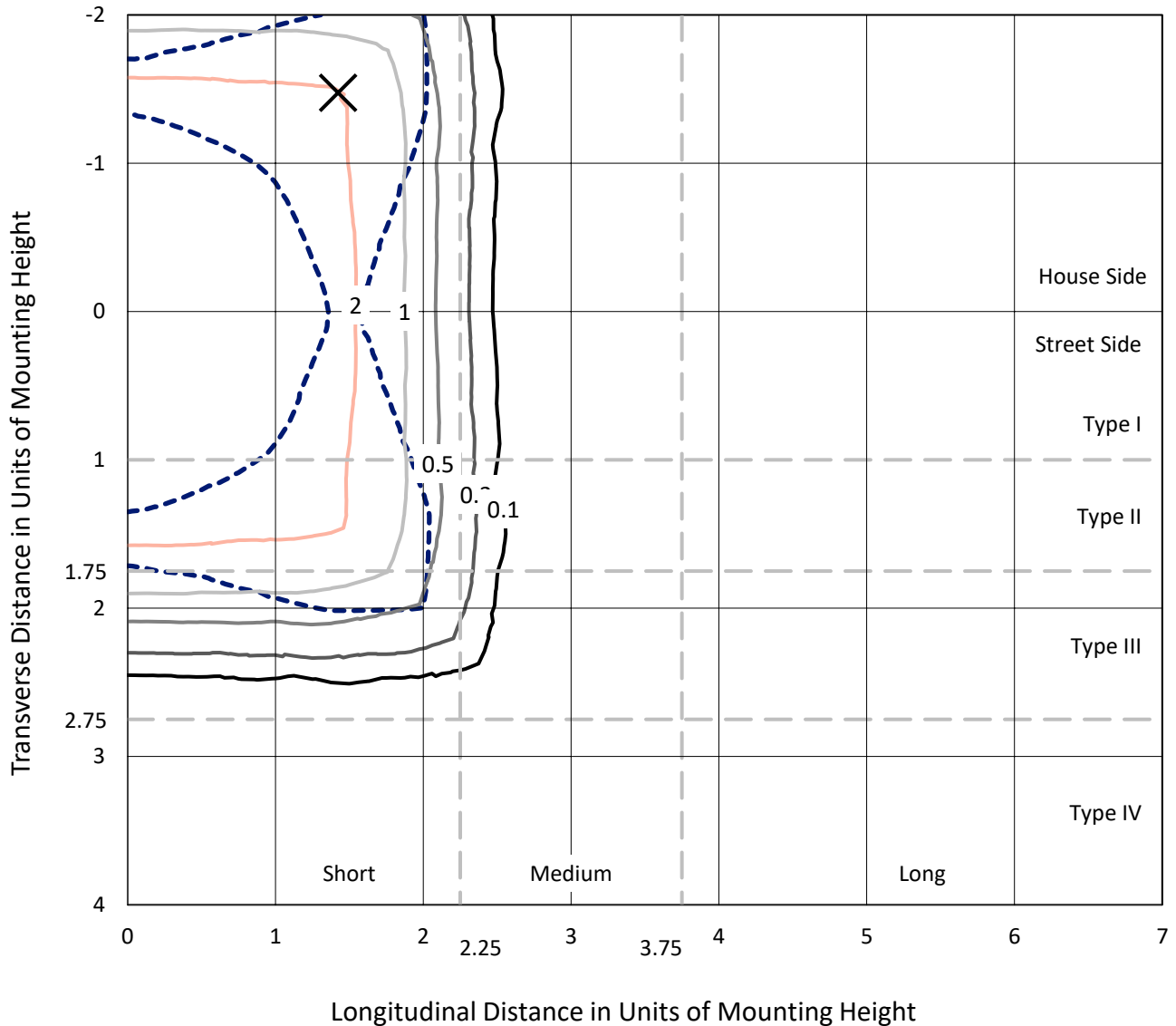
Lumens per Lamp: N/A
Luminaire Lumens: 36976.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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

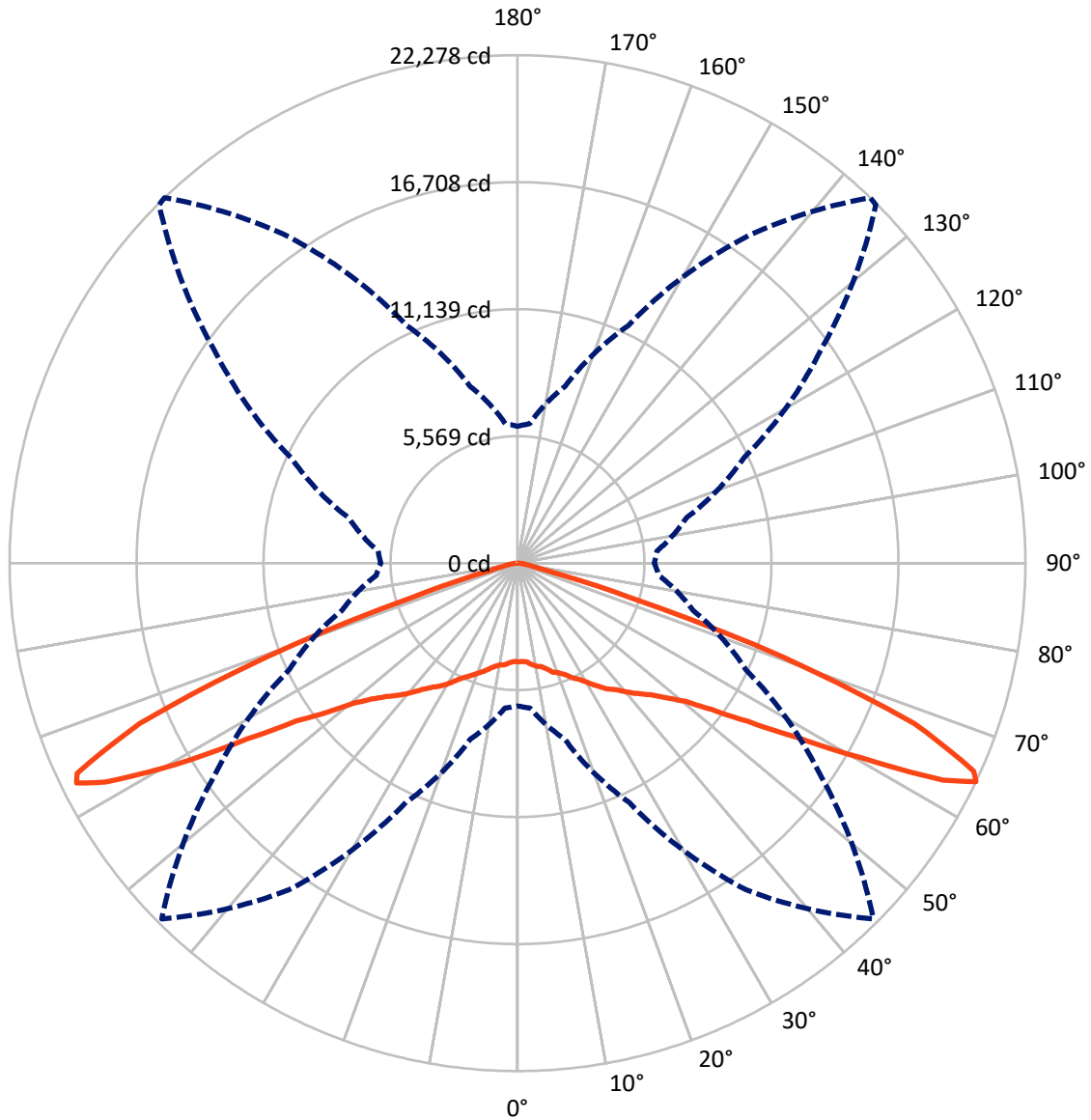
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18505.9	0.0	18505.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18470.6	0.0	18470.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	36976.5	0.0	36976.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	1.2
10°-20°	1371.0	3.7
20°-30°	2576.6	7.0
30°-40°	4249.3	11.5
40°-50°	6645.7	18.0
50°-60°	10737.8	29.0
60°-70°	9668.7	26.1
70°-80°	1145.3	3.1
80°-90°	156.8	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°	36976.5	100.0
0°-180°	36976.5	100.0

Coefficient of Utilization



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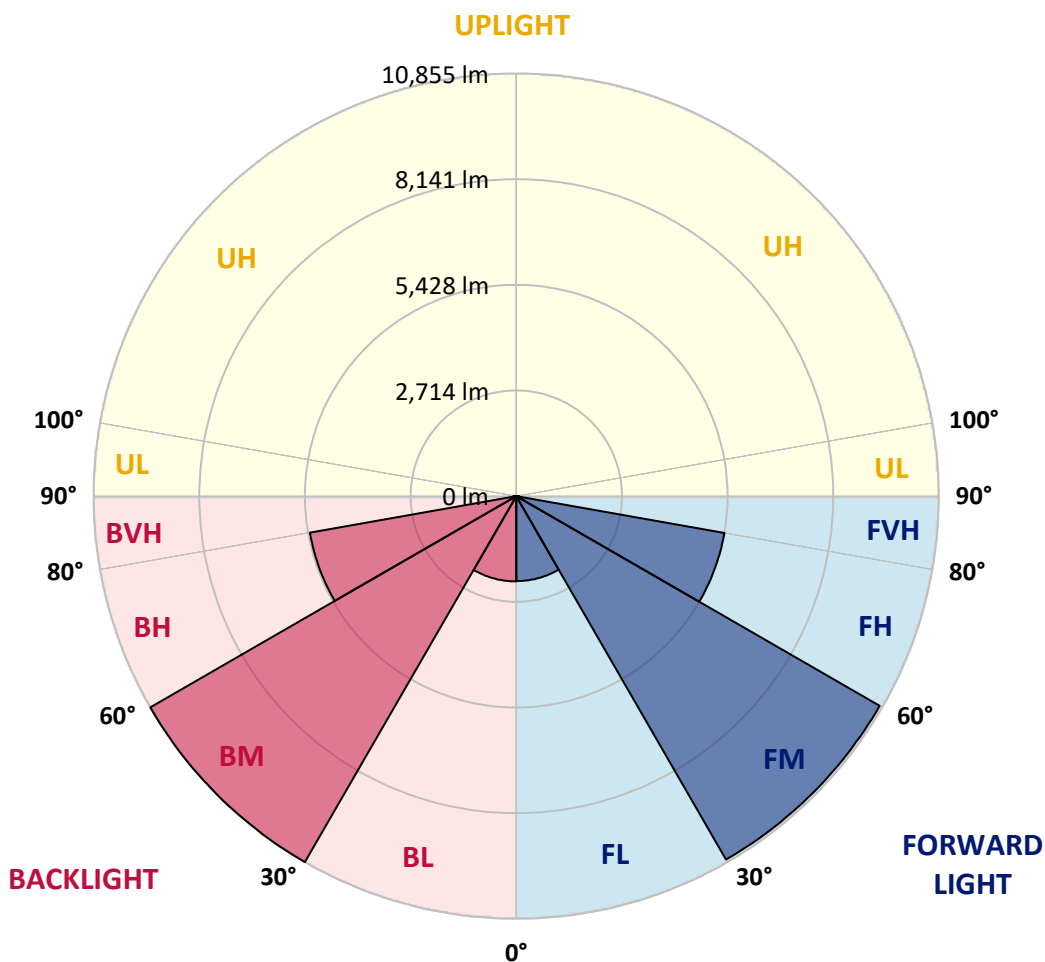
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.3	5.9			
FM	(30°-60°)	10777.5	29.1			
FH	(60°-80°)	5430.4	14.7			G3/7500
FVH	(80°-90°)	80.4	0.2			G1/100
BL	(0°-30°)	2190.7	5.9	B3/2500		
BM	(30°-60°)	10855.3	29.4	B5		
BH	(60°-80°)	5383.6	14.6	B5		G3/7500
BVH	(80°-90°)	76.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2
2.5°	4278.3	4286.8	4363.1	4333.4	4358.9	4312.2	4346.2	4418.2	4333.4	4397.0	4418.2
5°	4324.9	4337.7	4337.7	4367.4	4384.3	4375.8	4397.0	4367.4	4447.9	4414.0	4464.9
7.5°	4494.6	4473.4	4439.4	4464.9	4469.1	4490.3	4511.5	4549.7	4537.0	4507.3	4558.2
10°	4524.2	4507.3	4558.2	4562.4	4541.2	4524.2	4545.4	4545.4	4583.6	4592.1	4592.1
12.5°	4575.1	4592.1	4587.8	4621.8	4626.0	4613.3	4647.2	4710.8	4693.8	4706.6	4676.9
15°	4770.2	4749.0	4744.7	4778.6	4833.8	4753.2	4812.6	4808.3	4791.4	4816.8	4749.0
17.5°	4939.8	4871.9	4901.6	4956.7	4935.5	4952.5	5028.8	4961.0	4977.9	4948.3	4927.1
20°	5088.2	5033.1	5037.3	5058.5	5058.5	5109.4	5139.1	5113.6	5096.7	5092.4	5100.9
22.5°	5253.5	5189.9	5194.2	5283.2	5312.9	5295.9	5274.7	5317.1	5325.6	5291.7	5329.9
25°	5376.5	5444.3	5465.5	5508.0	5444.3	5491.0	5474.0	5554.6	5605.5	5537.6	5584.3
27.5°	5698.8	5669.1	5724.2	5720.0	5770.8	5724.2	5753.9	5779.3	5800.5	5804.8	5783.6
30°	5987.1	5999.8	5944.7	6093.1	5974.4	6050.7	6101.6	6114.3	6139.7	6139.7	6076.1
32.5°	6292.4	6266.9	6356.0	6322.1	6300.9	6360.2	6305.1	6478.9	6377.2	6436.5	6364.5
35°	6635.8	6635.8	6669.8	6763.0	6635.8	6597.7	6699.4	6771.5	6771.5	6665.5	6691.0
37.5°	7021.7	6987.8	7030.2	7148.9	7051.4	6924.2	7110.7	7140.4	7119.2	7089.5	7038.6
40°	7293.1	7284.6	7369.4	7526.3	7386.3	7360.9	7394.8	7475.4	7500.8	7530.5	7462.7
42.5°	7751.0	7789.1	8035.1	7996.9	7882.4	7793.4	7784.9	8086.0	8013.9	7937.6	7899.4
45°	8429.4	8395.5	8522.7	8526.9	8378.5	8183.5	8225.9	8501.5	8624.5	8454.9	8518.5
47.5°	8967.9	8984.9	9073.9	9256.2	8912.8	8709.3	8866.1	9311.4	9273.2	9209.6	9269.0
50°	9688.7	9765.1	10044.9	9981.3	9676.0	9425.8	9769.3	10189.1	10235.7	10002.5	9960.1
52.5°	10685.2	10803.9	10956.5	11007.4	10714.9	10625.8	10647.0	11168.5	11054.1	10829.3	10685.2
55°	11558.6	11613.8	11893.6	12313.4	12292.2	11863.9	12109.9	12304.9	11838.5	11376.3	11414.5
57.5°	11931.8	11957.2	12737.4	13576.9	14077.3	14174.8	13895.0	13237.7	12126.8	11236.4	11181.3
60°	11003.2	11244.9	12186.2	14081.5	16367.0	17494.8	15633.4	13343.7	11452.6	10371.4	10290.8
62.5°	8794.1	8806.8	10206.0	13080.9	17791.7	20747.0	16299.1	12347.3	9654.8	8429.4	8107.2
64°	6262.7	6381.4	7988.4	11579.8	17494.8	22070.0	16218.6	11045.6	7958.8	6220.3	5995.6
65°	4494.6	4659.9	6211.8	10053.4	16799.5	21913.1	15976.9	9926.2	6436.5	4749.0	4520.0
67.5°	1653.7	1721.5	2438.1	5028.8	12063.2	18673.6	12661.1	5457.1	2828.2	2014.1	1810.5
70°	767.5	771.7	903.2	1662.1	5274.7	12487.2	6042.2	2048.0	1064.3	843.8	784.4
72.5°	563.9	576.7	631.8	767.5	1551.9	5287.5	1984.4	839.5	623.3	551.2	538.5
75°	457.9	466.4	483.4	555.5	716.6	1416.2	805.6	580.9	496.1	445.2	428.3
77.5°	351.9	351.9	390.1	424.0	474.9	661.5	534.3	462.2	402.8	351.9	339.2
80°	254.4	258.6	305.3	330.7	322.3	436.7	385.9	381.6	330.7	275.6	254.4
82.5°	148.4	161.1	220.5	237.4	229.0	258.6	279.8	296.8	258.6	190.8	173.8
85°	84.8	89.0	127.2	131.4	131.4	123.0	161.1	178.1	173.8	118.7	106.0
87.5°	25.4	25.4	33.9	33.9	38.2	42.4	63.6	76.3	84.8	59.4	55.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2
2.5°	4397.0	4333.4	4337.7	4354.6	4299.5	4320.7	4384.3	4337.7	4324.9	4299.5	4286.8
5°	4375.8	4443.7	4418.2	4426.7	4414.0	4354.6	4346.2	4384.3	4405.5	4367.4	4443.7
7.5°	4524.2	4494.6	4460.6	4473.4	4443.7	4494.6	4528.5	4452.2	4490.3	4469.1	4426.7
10°	4609.0	4553.9	4579.4	4570.9	4549.7	4600.6	4566.6	4558.2	4524.2	4477.6	4545.4
12.5°	4638.7	4702.3	4744.7	4672.6	4685.4	4659.9	4638.7	4638.7	4600.6	4587.8	4600.6
15°	4770.2	4825.3	4808.3	4863.4	4791.4	4816.8	4842.2	4778.6	4812.6	4719.3	4791.4
17.5°	5011.9	4965.2	5024.6	4952.5	4977.9	5028.8	4948.3	4948.3	4973.7	4922.8	4859.2
20°	5164.5	5143.3	5122.1	5126.3	5083.9	5130.6	5105.1	5092.4	5054.3	5071.2	5105.1
22.5°	5308.7	5279.0	5287.5	5300.2	5329.9	5308.7	5295.9	5308.7	5215.4	5300.2	5181.5
25°	5486.7	5567.3	5541.9	5597.0	5512.2	5567.3	5563.1	5482.5	5533.4	5499.5	5474.0
27.5°	5783.6	5741.2	5779.3	5711.5	5770.8	5775.1	5724.2	5859.9	5800.5	5792.0	5775.1
30°	6165.2	6135.5	6110.1	6071.9	6118.5	6080.4	6122.8	6135.5	6080.4	6038.0	5957.4
32.5°	6381.4	6462.0	6491.7	6398.4	6402.6	6423.8	6385.7	6347.5	6381.4	6394.1	6381.4
35°	6686.7	6763.0	6780.0	6707.9	6669.8	6775.8	6699.4	6826.6	6716.4	6720.6	6606.1
37.5°	7042.9	7064.1	7208.2	7127.7	7093.8	7042.9	7182.8	7165.8	7191.3	6987.8	7089.5
40°	7445.7	7522.0	7602.6	7399.1	7394.8	7441.5	7433.0	7530.5	7483.9	7454.2	7382.1
42.5°	7886.7	8047.8	8060.5	7924.8	7840.0	7831.6	7874.0	8090.2	8094.4	7899.4	7814.6
45°	8471.8	8649.9	8603.3	8340.4	8247.1	8234.4	8442.1	8535.4	8616.0	8539.7	8467.6
47.5°	9201.1	9319.8	9285.9	9044.2	8743.2	8828.0	9031.5	9324.1	9239.3	9137.5	9052.7
50°	9981.3	10121.2	10049.1	9807.5	9519.1	9519.1	9769.3	10142.4	10117.0	9917.7	9841.4
52.5°	10846.3	11049.8	11215.2	10871.7	10630.0	10668.2	11062.5	11198.2	11134.6	10994.7	10931.1
55°	11490.8	11880.9	12220.1	12237.1	12249.8	12245.5	12347.3	12483.0	12029.3	11804.6	11575.6
57.5°	11333.9	12071.7	13233.5	14022.2	14255.4	14378.3	14344.4	13716.9	12644.1	11906.3	11982.7
60°	10214.5	11418.7	13292.9	15824.2	17520.3	17350.7	16731.6	14251.1	12304.9	11058.3	10901.4
62.5°	8149.6	9599.7	12296.4	16333.0	21005.7	20954.8	17715.3	13017.3	10252.7	8675.3	8577.8
64°	6139.7	7666.2	10969.3	16201.6	22226.8	22277.7	17465.2	11499.3	8022.4	6139.7	5991.3
65°	4698.1	6114.3	9667.5	15930.2	21964.0	21993.6	16769.8	9930.4	6097.3	4358.9	4197.7
67.5°	1869.9	2603.5	5245.1	12080.2	18860.2	18779.6	11965.7	4804.1	2332.1	1518.0	1488.3
70°	797.1	992.2	1840.2	5724.2	12627.2	12393.9	5151.8	1560.4	865.0	725.1	720.8
72.5°	547.0	606.3	788.7	1768.1	5249.3	5126.3	1467.1	725.1	589.4	542.7	542.7
75°	441.0	483.4	572.4	742.0	1390.8	1339.9	691.1	534.3	470.7	436.7	432.5
77.5°	343.5	385.9	449.5	513.1	636.0	631.8	462.2	402.8	364.7	339.2	330.7
80°	271.4	313.8	356.2	364.7	415.5	407.1	313.8	318.0	296.8	245.9	241.7
82.5°	186.6	254.4	284.1	258.6	245.9	245.9	224.7	224.7	207.8	152.6	139.9
85°	114.5	169.6	178.1	152.6	114.5	114.5	123.0	118.7	110.2	80.6	76.3
87.5°	59.4	80.6	72.1	59.4	38.2	38.2	33.9	25.4	25.4	21.2	21.2
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)