

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: P478967

Luminaire Tested: **IFLD-L-SA8B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

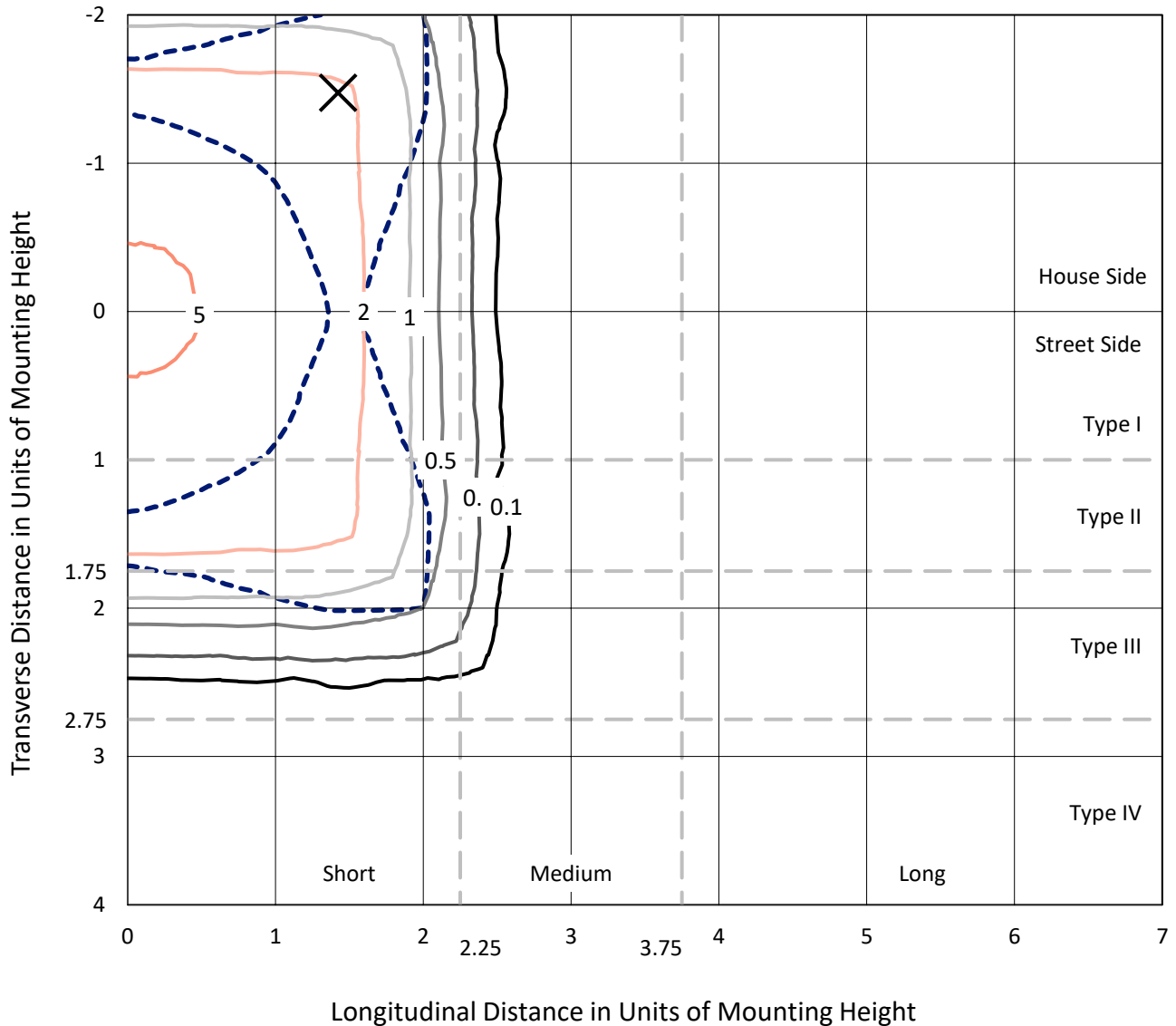
Lumens per Lamp: N/A
Luminaire Lumens: 40591.8 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

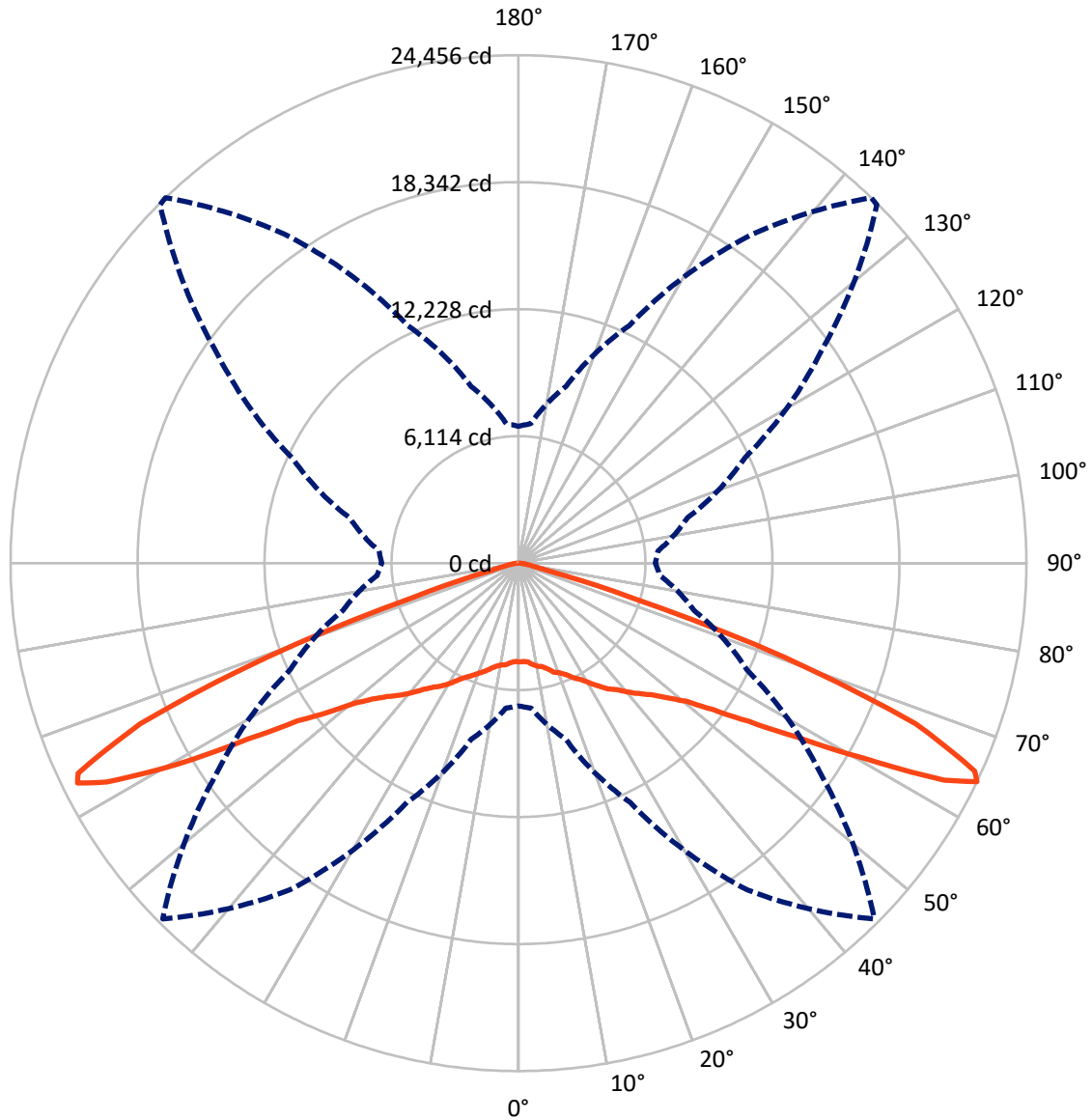
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20315.2	0.0	20315.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20276.5	0.0	20276.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40591.8	0.0	40591.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.0	1.2
10°-20°	1505.0	3.7
20°-30°	2828.6	7.0
30°-40°	4664.8	11.5
40°-50°	7295.4	18.0
50°-60°	11787.6	29.0
60°-70°	10614.0	26.1
70°-80°	1257.3	3.1
80°-90°	172.1	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°	40591.8	100.0
0°-180°	40591.8	100.0

Coefficient of Utilization



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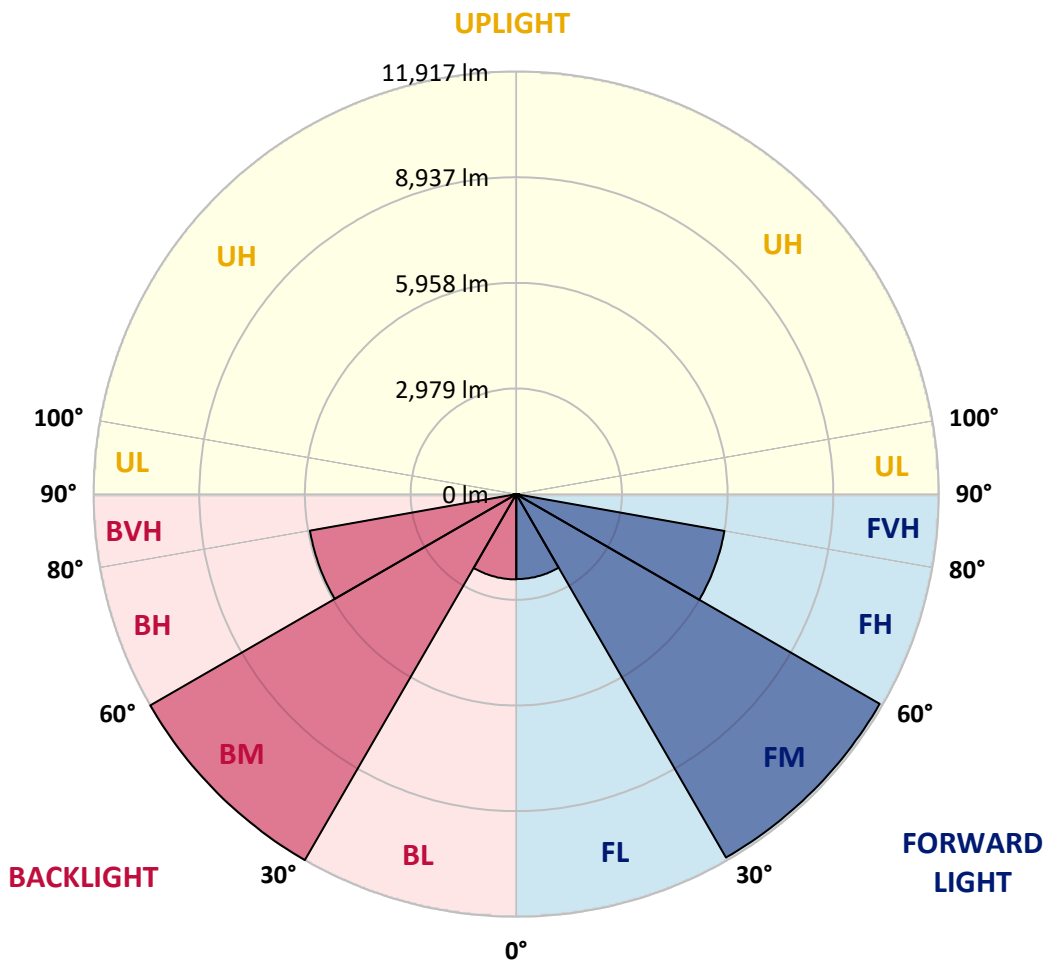
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.7	5.9			
FM (30°-60°)	11831.2	29.1			
FH (60°-80°)	5961.4	14.7			G3/7500
FVH (80°-90°)	88.3	0.2			G1/100
BL (0°-30°)	2404.9	5.9	B3/2500		
BM (30°-60°)	11916.6	29.4	B5		
BH (60°-80°)	5909.9	14.6	B5		G3/7500
BVH (80°-90°)	83.8	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°	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5
2.5°	4696.6	4705.9	4789.7	4757.1	4785.0	4733.8	4771.1	4850.2	4757.1	4826.9	4850.2
5°	4747.8	4761.8	4761.8	4794.4	4813.0	4803.7	4826.9	4794.4	4882.8	4845.6	4901.4
7.5°	4934.0	4910.7	4873.5	4901.4	4906.1	4929.3	4952.6	4994.5	4980.5	4948.0	5003.8
10°	4966.6	4948.0	5003.8	5008.5	4985.2	4966.6	4989.9	4989.9	5031.7	5041.1	5041.1
12.5°	5022.4	5041.1	5036.4	5073.6	5078.3	5064.3	5101.6	5171.4	5152.8	5166.7	5134.1
15°	5236.6	5213.3	5208.6	5245.9	5306.4	5217.9	5283.1	5278.4	5259.8	5287.8	5213.3
17.5°	5422.7	5348.3	5380.8	5441.4	5418.1	5436.7	5520.5	5446.0	5464.6	5432.1	5408.8
20°	5585.7	5525.1	5529.8	5553.1	5553.1	5608.9	5641.5	5613.6	5595.0	5590.3	5599.6
22.5°	5767.2	5697.4	5702.0	5799.8	5832.4	5813.7	5790.5	5837.0	5846.3	5809.1	5851.0
25°	5902.2	5976.7	5999.9	6046.5	5976.7	6027.9	6009.2	6097.7	6153.5	6079.1	6130.3
27.5°	6255.9	6223.4	6283.9	6279.2	6335.1	6283.9	6316.4	6344.4	6367.6	6372.3	6349.0
30°	6572.5	6586.4	6525.9	6688.8	6558.5	6642.3	6698.1	6712.1	6740.0	6740.0	6670.2
32.5°	6907.6	6879.7	6977.4	6940.2	6916.9	6982.1	6921.6	7112.4	7000.7	7065.9	6986.7
35°	7284.6	7284.6	7321.9	7424.3	7284.6	7242.7	7354.4	7433.6	7433.6	7317.2	7345.1
37.5°	7708.2	7671.0	7717.5	7847.8	7740.8	7601.1	7806.0	7838.5	7815.3	7782.7	7726.8
40°	8006.1	7996.8	8089.9	8262.1	8108.5	8080.6	8117.8	8206.3	8234.2	8266.8	8192.3
42.5°	8508.8	8550.7	8820.7	8778.8	8653.1	8555.4	8546.1	8876.5	8797.4	8713.6	8671.7
45°	9253.6	9216.3	9356.0	9360.6	9197.7	8983.6	9030.1	9332.7	9467.7	9281.5	9351.3
47.5°	9844.7	9863.3	9961.1	10161.2	9784.2	9560.8	9733.0	10221.8	10179.9	10110.0	10175.2
50°	10636.0	10719.8	11027.0	10957.2	10622.1	10347.4	10724.5	11185.3	11236.5	10980.5	10933.9
52.5°	11729.9	11860.2	12027.8	12083.6	11762.5	11664.7	11688.0	12260.5	12134.8	11888.1	11729.9
55°	12688.8	12749.3	13056.5	13517.3	13494.0	13023.9	13293.9	13508.0	12996.0	12488.6	12530.5
57.5°	13098.4	13126.3	13982.8	14904.4	15453.7	15560.7	15253.5	14532.0	13312.5	12335.0	12274.5
60°	12079.0	12344.3	13377.6	15458.3	17967.2	19205.4	17161.9	14648.4	12572.4	11385.4	11297.0
62.5°	9653.9	9667.8	11203.9	14359.8	19531.2	22775.5	17892.7	13554.5	10598.8	9253.6	8899.8
64°	6875.0	7005.3	8769.5	12712.0	19205.4	24227.8	17804.3	12125.5	8736.9	6828.5	6581.8
65°	4934.0	5115.5	6819.2	11036.3	18442.0	24055.6	17539.0	10896.7	7065.9	5213.3	4961.9
67.5°	1815.3	1889.8	2676.5	5520.5	13242.7	20499.4	13899.0	5990.6	3104.7	2211.0	1987.6
70°	842.5	847.2	991.5	1824.6	5790.5	13708.1	6633.0	2248.2	1168.3	926.3	861.1
72.5°	619.1	633.0	693.6	842.5	1703.6	5804.4	2178.4	921.6	684.2	605.1	591.1
75°	502.7	512.0	530.6	609.8	786.6	1554.7	884.4	637.7	544.6	488.7	470.1
77.5°	386.3	386.3	428.2	465.5	521.3	726.1	586.5	507.4	442.2	386.3	372.4
80°	279.3	283.9	335.1	363.1	353.8	479.4	423.6	418.9	363.1	302.6	279.3
82.5°	162.9	176.9	242.0	260.7	251.4	283.9	307.2	325.8	283.9	209.5	190.8
85°	93.1	97.7	139.6	144.3	144.3	135.0	176.9	195.5	190.8	130.3	116.4
87.5°	27.9	27.9	37.2	37.2	41.9	46.5	69.8	83.8	93.1	65.2	60.5
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°	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5	4752.5
2.5°	4826.9	4757.1	4761.8	4780.4	4719.9	4743.2	4813.0	4761.8	4747.8	4719.9	4705.9
5°	4803.7	4878.1	4850.2	4859.5	4845.6	4780.4	4771.1	4813.0	4836.2	4794.4	4878.1
7.5°	4966.6	4934.0	4896.8	4910.7	4878.1	4934.0	4971.2	4887.5	4929.3	4906.1	4859.5
10°	5059.7	4999.2	5027.1	5017.8	4994.5	5050.4	5013.1	5003.8	4966.6	4915.4	4989.9
12.5°	5092.3	5162.1	5208.6	5129.5	5143.5	5115.5	5092.3	5092.3	5050.4	5036.4	5050.4
15°	5236.6	5297.1	5278.4	5339.0	5259.8	5287.8	5315.7	5245.9	5283.1	5180.7	5259.8
17.5°	5501.9	5450.7	5515.8	5436.7	5464.6	5520.5	5432.1	5432.1	5460.0	5404.1	5334.3
20°	5669.4	5646.2	5622.9	5627.5	5581.0	5632.2	5604.3	5590.3	5548.4	5567.0	5604.3
22.5°	5827.7	5795.1	5804.4	5818.4	5851.0	5827.7	5813.7	5827.7	5725.3	5818.4	5688.1
25°	6023.2	6111.6	6083.7	6144.2	6051.1	6111.6	6107.0	6018.5	6074.4	6037.2	6009.2
27.5°	6349.0	6302.5	6344.4	6269.9	6335.1	6339.7	6283.9	6432.8	6367.6	6358.3	6339.7
30°	6768.0	6735.4	6707.4	6665.6	6716.8	6674.9	6721.4	6735.4	6674.9	6628.3	6539.9
32.5°	7005.3	7093.8	7126.4	7024.0	7028.6	7051.9	7010.0	6968.1	7005.3	7019.3	7005.3
35°	7340.5	7424.3	7442.9	7363.8	7321.9	7438.2	7354.4	7494.1	7373.1	7377.7	7252.0
37.5°	7731.5	7754.8	7913.0	7824.6	7787.3	7731.5	7885.1	7866.5	7894.4	7671.0	7782.7
40°	8173.7	8257.5	8345.9	8122.5	8117.8	8169.0	8159.7	8266.8	8215.6	8183.0	8103.9
42.5°	8657.8	8834.6	8848.6	8699.7	8606.6	8597.3	8643.8	8881.2	8885.8	8671.7	8578.6
45°	9300.1	9495.6	9444.4	9155.8	9053.4	9039.5	9267.5	9369.9	9458.4	9374.6	9295.5
47.5°	10100.7	10231.1	10193.8	9928.5	9598.0	9691.1	9914.5	10235.7	10142.6	10030.9	9937.8
50°	10957.2	11110.8	11031.7	10766.4	10449.8	10449.8	10724.5	11134.1	11106.1	10887.4	10803.6
52.5°	11906.8	12130.2	12311.7	11934.7	11669.4	11711.3	12144.1	12293.1	12223.3	12069.7	11999.9
55°	12614.3	13042.5	13414.9	13433.5	13447.5	13442.8	13554.5	13703.5	13205.4	12958.7	12707.4
57.5°	12442.1	13252.0	14527.4	15393.1	15649.1	15784.1	15746.9	15058.0	13880.4	13070.4	13154.2
60°	11213.2	12535.1	14592.5	17371.4	19233.3	19047.1	18367.5	15644.5	13508.0	12139.5	11967.3
62.5°	8946.4	10538.3	13498.7	17930.0	23059.5	23003.6	19447.4	14290.0	11255.1	9523.5	9416.5
64°	6740.0	8415.7	12041.7	17785.7	24400.0	24455.9	19172.8	12623.6	8806.7	6740.0	6577.1
65°	5157.4	6712.1	10612.7	17487.8	24111.4	24144.0	18409.4	10901.3	6693.5	4785.0	4608.2
67.5°	2052.7	2858.0	5757.9	13261.3	20704.2	20615.7	13135.6	5273.8	2560.1	1666.4	1633.8
70°	875.1	1089.2	2020.1	6283.9	13861.7	13605.7	5655.5	1712.9	949.6	796.0	791.3
72.5°	600.5	665.6	865.8	1941.0	5762.5	5627.5	1610.5	796.0	647.0	595.8	595.8
75°	484.1	530.6	628.4	814.6	1526.7	1470.9	758.7	586.5	516.7	479.4	474.8
77.5°	377.0	423.6	493.4	563.2	698.2	693.6	507.4	442.2	400.3	372.4	363.1
80°	297.9	344.4	391.0	400.3	456.2	446.9	344.4	349.1	325.8	270.0	265.3
82.5°	204.8	279.3	311.9	283.9	270.0	270.0	246.7	246.7	228.1	167.6	153.6
85°	125.7	186.2	195.5	167.6	125.7	125.7	135.0	130.3	121.0	88.4	83.8
87.5°	65.2	88.4	79.1	65.2	41.9	41.9	37.2	27.9	27.9	23.3	23.3
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)