

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: P479005

Luminaire Tested: **IFLD-L-SA8A-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479005
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

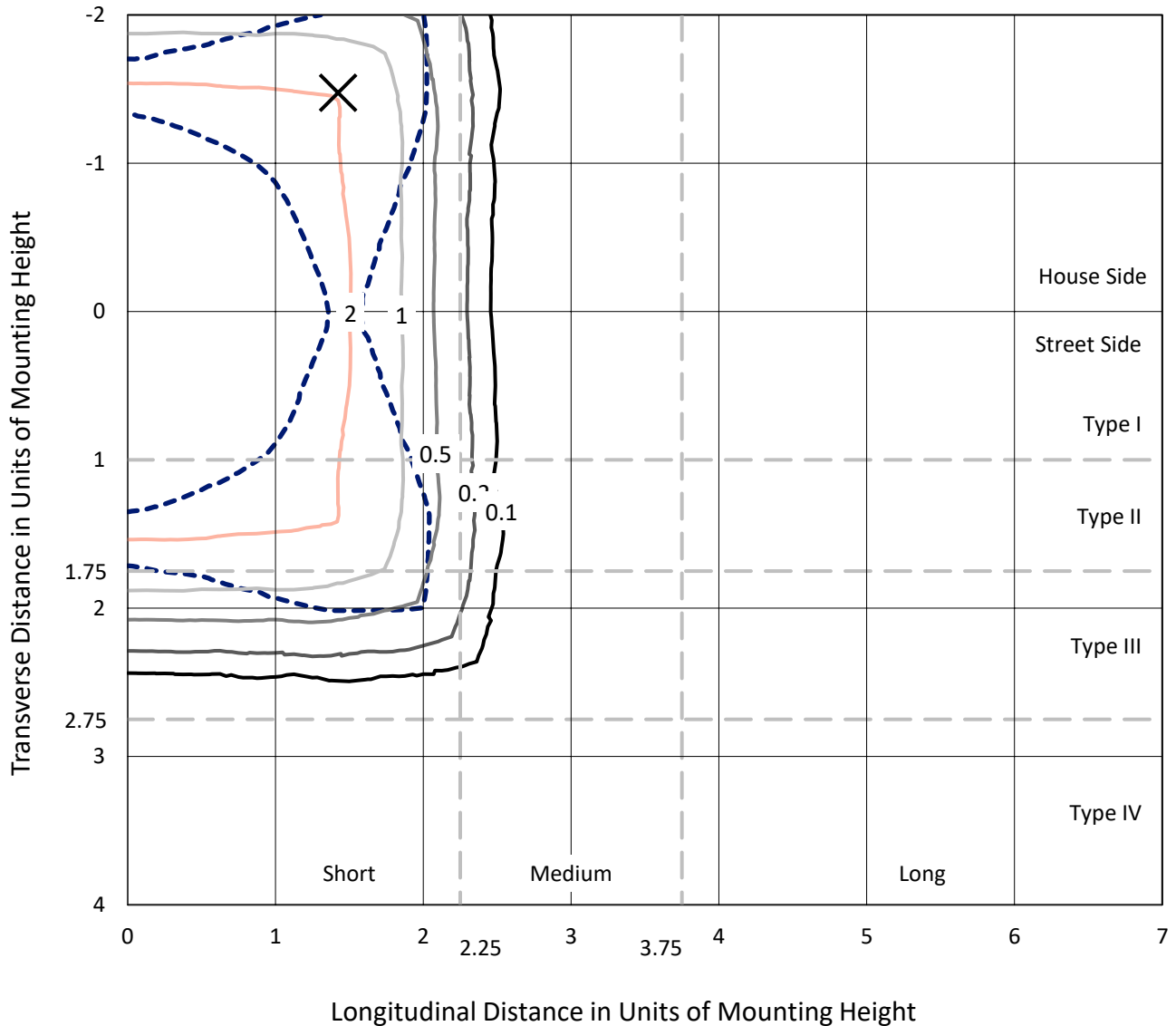
Lumens per Lamp: N/A
Luminaire Lumens: 34948.7 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.8
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

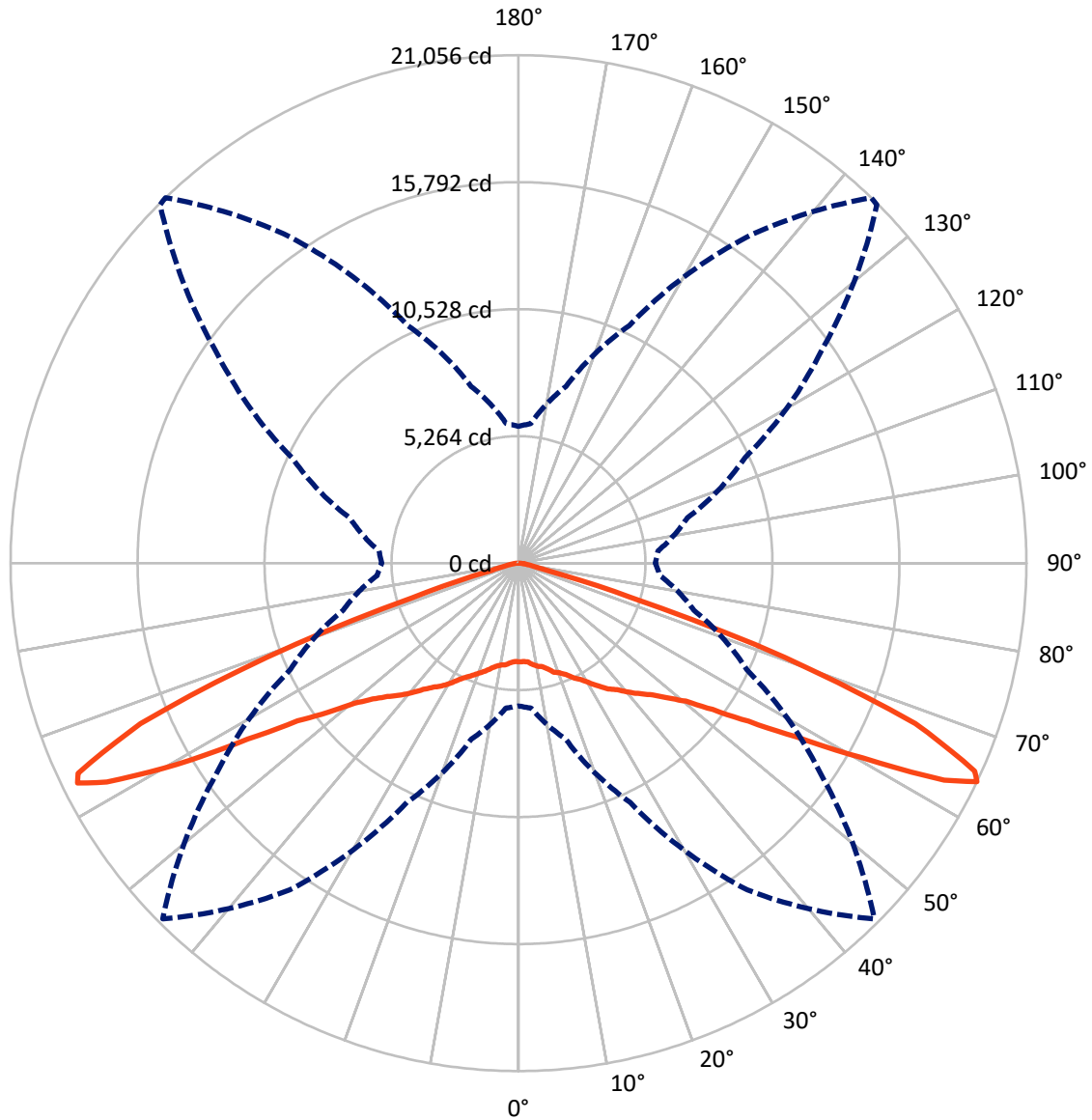
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	17491.0	0.0	17491.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17457.7	0.0	17457.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	34948.7	0.0	34948.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.2
10°-20°	1295.8	3.7
20°-30°	2435.3	7.0
30°-40°	4016.3	11.5
40°-50°	6281.2	18.0
50°-60°	10148.9	29.0
60°-70°	9138.4	26.1
70°-80°	1082.5	3.1
80°-90°	148.2	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°	34948.7	100.0
0°-180°	34948.7	100.0

Coefficient of Utilization



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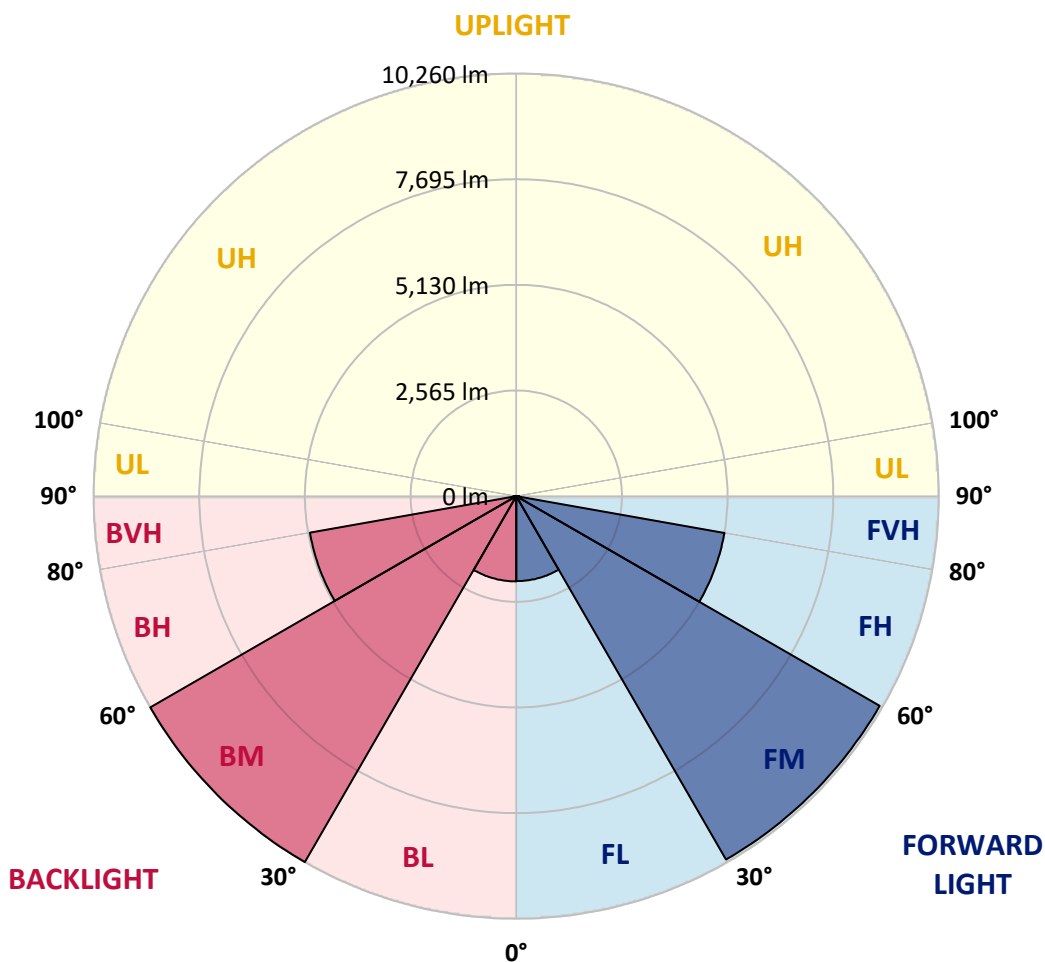
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.6	5.9			
FM (30°-60°)	10186.4	29.1			
FH (60°-80°)	5132.6	14.7			G3/7500
FVH (80°-90°)	76.0	0.2			G1/100
BL (0°-30°)	2070.6	5.9	B3/2500		
BM (30°-60°)	10259.9	29.4	B5		
BH (60°-80°)	5088.3	14.6	B5		G3/7500
BVH (80°-90°)	72.2	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°	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8
2.5°	4043.7	4051.7	4123.8	4095.8	4119.8	4075.7	4107.8	4175.9	4095.8	4155.9	4175.9
5°	4087.8	4099.8	4099.8	4127.8	4143.9	4135.9	4155.9	4127.8	4204.0	4171.9	4220.0
7.5°	4248.1	4228.0	4196.0	4220.0	4224.0	4244.1	4264.1	4300.2	4288.1	4260.1	4308.2
10°	4276.1	4260.1	4308.2	4312.2	4292.2	4276.1	4296.2	4296.2	4332.2	4340.2	4340.2
12.5°	4324.2	4340.2	4336.2	4368.3	4372.3	4360.3	4392.3	4452.5	4436.4	4448.4	4420.4
15°	4508.6	4488.5	4484.5	4516.6	4568.7	4492.5	4548.6	4544.6	4528.6	4552.6	4488.5
17.5°	4668.9	4604.7	4632.8	4684.9	4664.9	4680.9	4753.0	4688.9	4704.9	4676.9	4656.8
20°	4809.1	4757.0	4761.0	4781.1	4781.1	4829.2	4857.2	4833.2	4817.1	4813.1	4821.2
22.5°	4965.4	4905.3	4909.3	4993.5	5021.5	5005.5	4985.5	5025.5	5033.6	5001.5	5037.6
25°	5081.7	5145.8	5165.8	5205.9	5145.8	5189.9	5173.8	5250.0	5298.1	5233.9	5278.0
27.5°	5386.2	5358.2	5410.3	5406.3	5454.4	5410.3	5438.3	5462.4	5482.4	5486.4	5466.4
30°	5658.7	5670.8	5618.7	5758.9	5646.7	5718.9	5767.0	5779.0	5803.0	5803.0	5742.9
32.5°	5947.3	5923.2	6007.4	5975.3	5955.3	6011.4	5959.3	6123.6	6027.4	6083.6	6015.4
35°	6271.9	6271.9	6304.0	6392.1	6271.9	6235.8	6332.0	6400.2	6400.2	6300.0	6324.0
37.5°	6636.6	6604.5	6644.6	6756.8	6664.7	6544.4	6720.8	6748.8	6728.8	6700.7	6652.6
40°	6893.1	6885.1	6965.2	7113.5	6981.3	6957.2	6989.3	7065.4	7089.5	7117.5	7053.4
42.5°	7325.9	7362.0	7594.4	7558.4	7450.1	7366.0	7358.0	7642.5	7574.4	7502.2	7466.2
45°	7967.1	7935.1	8055.3	8059.3	7919.0	7734.7	7774.8	8035.3	8151.5	7991.2	8051.3
47.5°	8476.1	8492.1	8576.3	8748.6	8424.0	8231.6	8379.9	8800.7	8764.6	8704.5	8760.6
50°	9157.4	9229.5	9494.0	9433.9	9145.4	8908.9	9233.5	9630.3	9674.4	9454.0	9413.9
52.5°	10099.2	10211.4	10355.7	10403.8	10127.2	10043.1	10063.1	10556.0	10447.8	10235.4	10099.2
55°	10924.7	10976.8	11241.3	11638.1	11618.1	11213.3	11445.7	11630.1	11189.2	10752.4	10788.5
57.5°	11277.4	11301.5	12038.9	12832.4	13305.3	13397.4	13132.9	12511.8	11461.8	10620.2	10568.1
60°	10399.7	10628.2	11517.9	13309.3	15469.4	16535.4	14776.1	12612.0	10824.6	9802.6	9726.5
62.5°	8311.8	8323.8	9646.3	12363.5	16815.9	19609.2	15405.3	11670.2	9125.3	7967.1	7662.6
64°	5919.2	6031.5	7550.3	10944.8	16535.4	20859.6	15329.1	10439.8	7522.3	5879.2	5666.8
65°	4248.1	4404.4	5871.1	9502.0	15878.2	20711.3	15100.7	9381.8	6083.6	4488.5	4272.1
67.5°	1563.0	1627.1	2304.4	4753.0	11401.7	17649.5	11966.7	5157.8	2673.1	1903.6	1711.2
70°	725.4	729.4	853.6	1571.0	4985.5	11802.4	5710.8	1935.7	1005.9	797.5	741.4
72.5°	533.0	545.0	597.1	725.4	1466.8	4997.5	1875.6	793.5	589.1	521.0	509.0
75°	432.8	440.8	456.9	525.0	677.3	1338.5	761.4	549.0	468.9	420.8	404.8
77.5°	332.6	332.6	368.7	400.8	448.9	625.2	505.0	436.8	380.7	332.6	320.6
80°	240.5	244.5	288.5	312.6	304.6	412.8	364.7	360.7	312.6	260.5	240.5
82.5°	140.3	152.3	208.4	224.4	216.4	244.5	264.5	280.5	244.5	180.3	164.3
85°	80.2	84.2	120.2	124.2	124.2	116.2	152.3	168.3	164.3	112.2	100.2
87.5°	24.0	24.0	32.1	32.1	36.1	40.1	60.1	72.1	80.2	56.1	52.1
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°	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8	4091.8
2.5°	4155.9	4095.8	4099.8	4115.8	4063.7	4083.8	4143.9	4099.8	4087.8	4063.7	4051.7
5°	4135.9	4200.0	4175.9	4183.9	4171.9	4115.8	4107.8	4143.9	4163.9	4127.8	4200.0
7.5°	4276.1	4248.1	4216.0	4228.0	4200.0	4248.1	4280.1	4208.0	4244.1	4224.0	4183.9
10°	4356.3	4304.2	4328.2	4320.2	4300.2	4348.3	4316.2	4308.2	4276.1	4232.0	4296.2
12.5°	4384.3	4444.4	4484.5	4416.4	4428.4	4404.4	4384.3	4384.3	4348.3	4336.2	4348.3
15°	4508.6	4560.7	4544.6	4596.7	4528.6	4552.6	4576.7	4516.6	4548.6	4460.5	4528.6
17.5°	4737.0	4692.9	4749.0	4680.9	4704.9	4753.0	4676.9	4676.9	4700.9	4652.8	4592.7
20°	4881.3	4861.2	4841.2	4845.2	4805.1	4849.2	4825.2	4813.1	4777.1	4793.1	4825.2
22.5°	5017.5	4989.5	4997.5	5009.5	5037.6	5017.5	5005.5	5017.5	4929.4	5009.5	4897.3
25°	5185.8	5262.0	5237.9	5290.0	5209.9	5262.0	5258.0	5181.8	5229.9	5197.9	5173.8
27.5°	5466.4	5426.3	5462.4	5398.3	5454.4	5458.4	5410.3	5538.5	5482.4	5474.4	5458.4
30°	5827.1	5799.0	5775.0	5738.9	5783.0	5746.9	5787.0	5799.0	5746.9	5706.8	5630.7
32.5°	6031.5	6107.6	6135.7	6047.5	6051.5	6071.5	6035.5	5999.4	6031.5	6043.5	6031.5
35°	6320.0	6392.1	6408.2	6340.0	6304.0	6404.2	6332.0	6452.3	6348.1	6352.1	6243.9
37.5°	6656.6	6676.7	6812.9	6736.8	6704.7	6656.6	6788.9	6772.9	6796.9	6604.5	6700.7
40°	7037.4	7109.5	7185.6	6993.3	6989.3	7033.4	7025.3	7117.5	7073.4	7045.4	6977.3
42.5°	7454.2	7606.4	7618.5	7490.2	7410.1	7402.1	7442.1	7646.5	7650.5	7466.2	7386.0
45°	8007.2	8175.5	8131.4	7883.0	7794.8	7782.8	7979.2	8067.3	8143.5	8071.3	8003.2
47.5°	8696.5	8808.7	8776.7	8548.2	8263.7	8343.8	8536.2	8812.7	8732.6	8636.4	8556.2
50°	9433.9	9566.2	9498.0	9269.6	8997.1	8997.1	9233.5	9586.2	9562.2	9373.8	9301.7
52.5°	10251.5	10443.8	10600.1	10275.5	10047.1	10083.1	10455.9	10584.1	10524.0	10391.7	10331.6
55°	10860.6	11229.3	11549.9	11566.0	11578.0	11574.0	11670.2	11798.4	11369.6	11157.2	10940.8
57.5°	10712.3	11409.7	12507.8	13253.2	13473.6	13589.8	13557.7	12964.6	11950.7	11253.4	11325.5
60°	9654.3	10792.5	12563.9	14956.4	16559.4	16399.1	15814.0	13469.6	11630.1	10451.8	10303.6
62.5°	7702.6	9073.2	11622.1	15437.3	19853.7	19805.6	16743.8	12303.4	9690.4	8199.6	8107.4
64°	5803.0	7245.8	10367.7	15313.1	21007.9	21056.0	16507.3	10868.6	7582.4	5803.0	5662.8
65°	4440.4	5779.0	9137.4	15056.6	20759.4	20787.5	15850.1	9385.8	5762.9	4119.8	3967.5
67.5°	1767.4	2460.7	4957.4	11417.7	17825.9	17749.7	11309.5	4540.6	2204.2	1434.7	1406.7
70°	753.4	937.8	1739.3	5410.3	11934.7	11714.2	4869.2	1474.8	817.6	685.3	681.3
72.5°	517.0	573.1	745.4	1671.2	4961.4	4845.2	1386.6	685.3	557.1	513.0	513.0
75°	416.8	456.9	541.0	701.3	1314.5	1266.4	653.2	505.0	444.8	412.8	408.8
77.5°	324.6	364.7	424.8	484.9	601.1	597.1	436.8	380.7	344.7	320.6	312.6
80°	256.5	296.6	336.6	344.7	392.7	384.7	296.6	300.6	280.5	232.4	228.4
82.5°	176.3	240.5	268.5	244.5	232.4	232.4	212.4	212.4	196.4	144.3	132.3
85°	108.2	160.3	168.3	144.3	108.2	108.2	116.2	112.2	104.2	76.1	72.1
87.5°	56.1	76.1	68.1	56.1	36.1	36.1	32.1	24.0	24.0	20.0	20.0
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)