

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: P479000

Luminaire Tested: **IFLD-L-SA7A-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

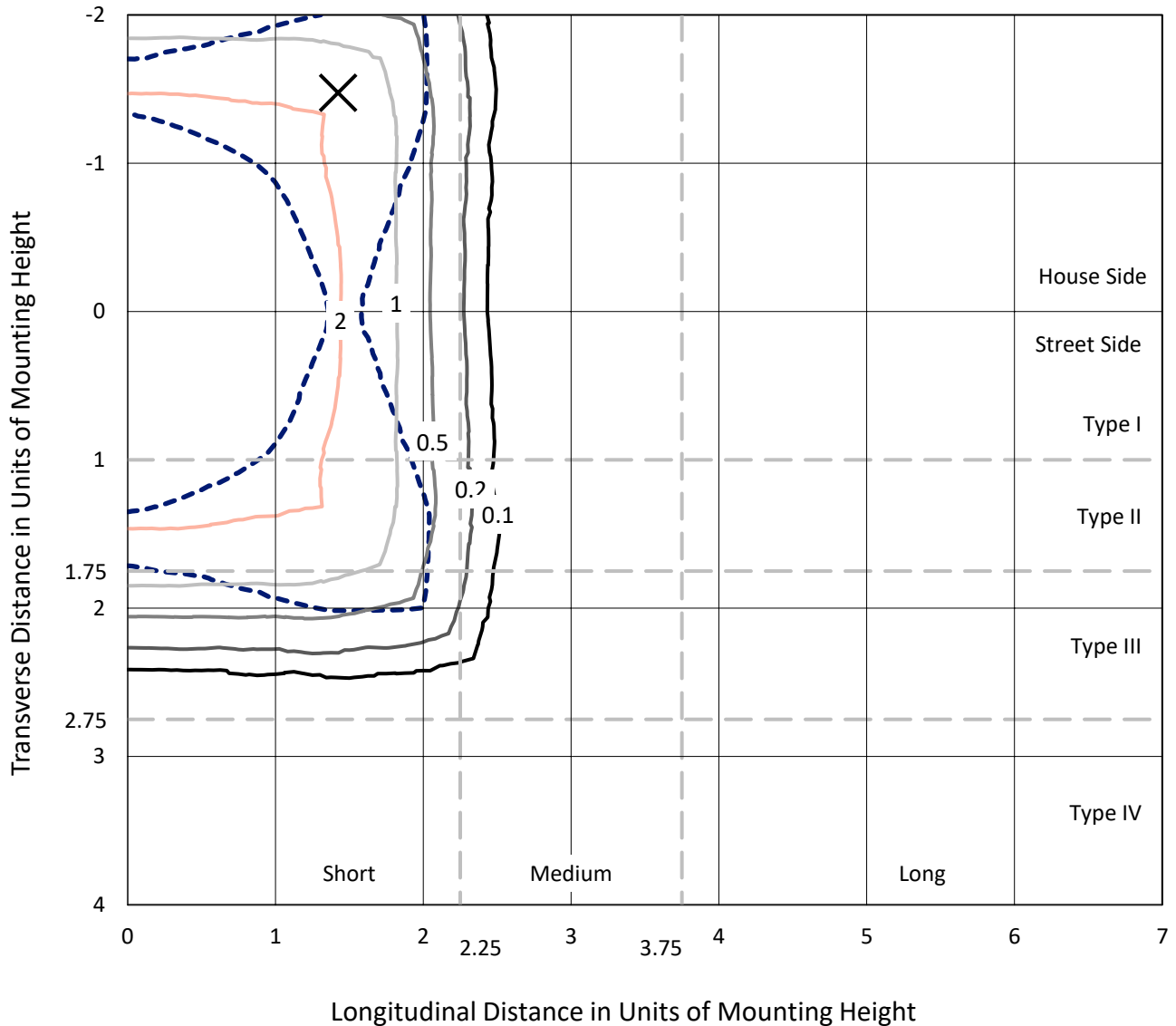
Lumens per Lamp: N/A
Luminaire Lumens: 31933.2 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 217.6
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

REPORT NUMBER: P479000
 CATALOG NUMBER: IFLD-L-SA7A-750-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

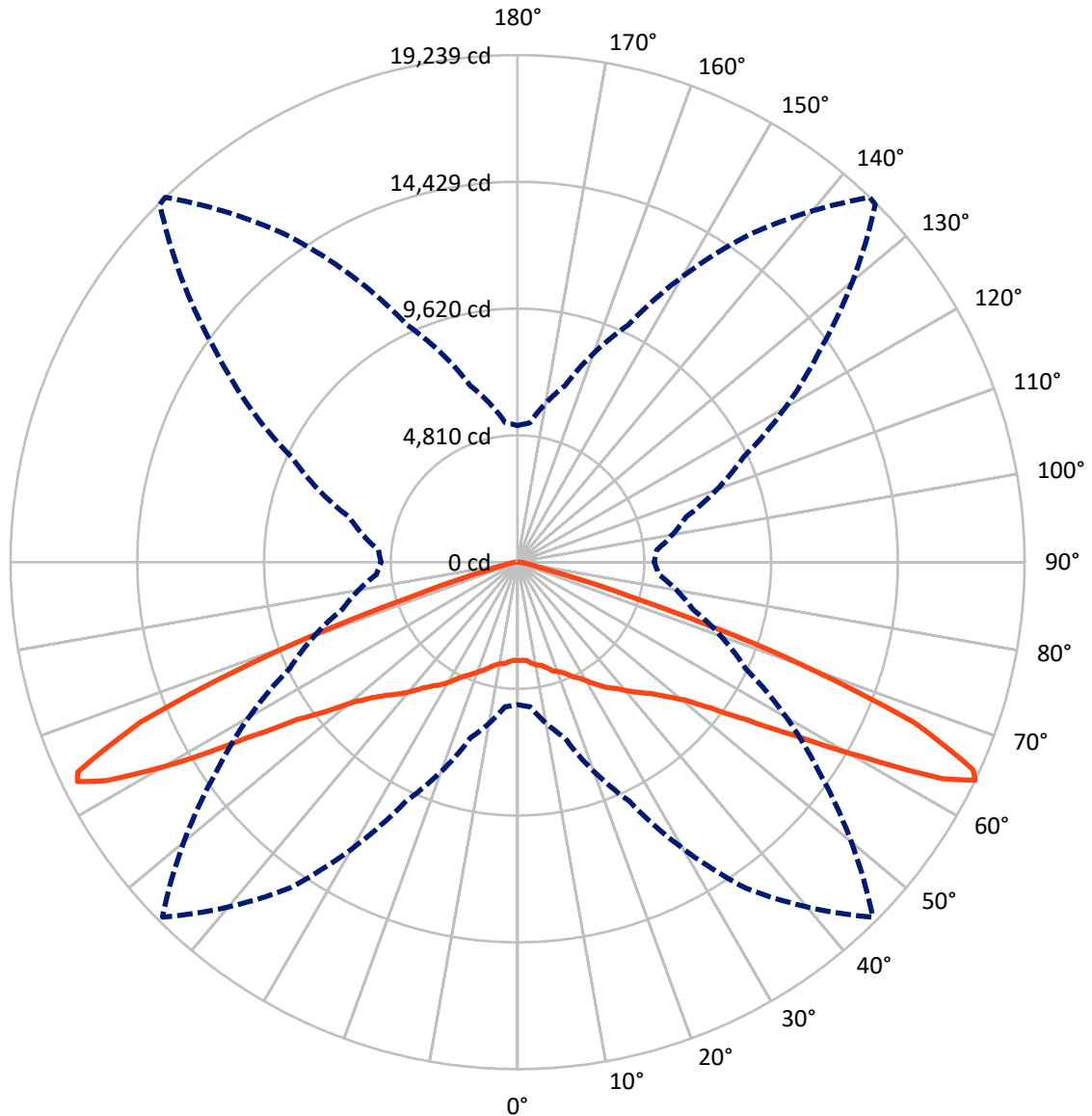
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479000
CATALOG NUMBER: IFLD-L-SA7A-750-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479000

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15981.8	0.0	15981.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15951.4	0.0	15951.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31933.2	0.0	31933.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	1.2
10°-20°	1184.0	3.7
20°-30°	2225.2	7.0
30°-40°	3669.8	11.5
40°-50°	5739.2	18.0
50°-60°	9273.2	29.0
60°-70°	8349.9	26.1
70°-80°	989.1	3.1
80°-90°	135.4	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°	31933.2	100.0
0°-180°	31933.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479000

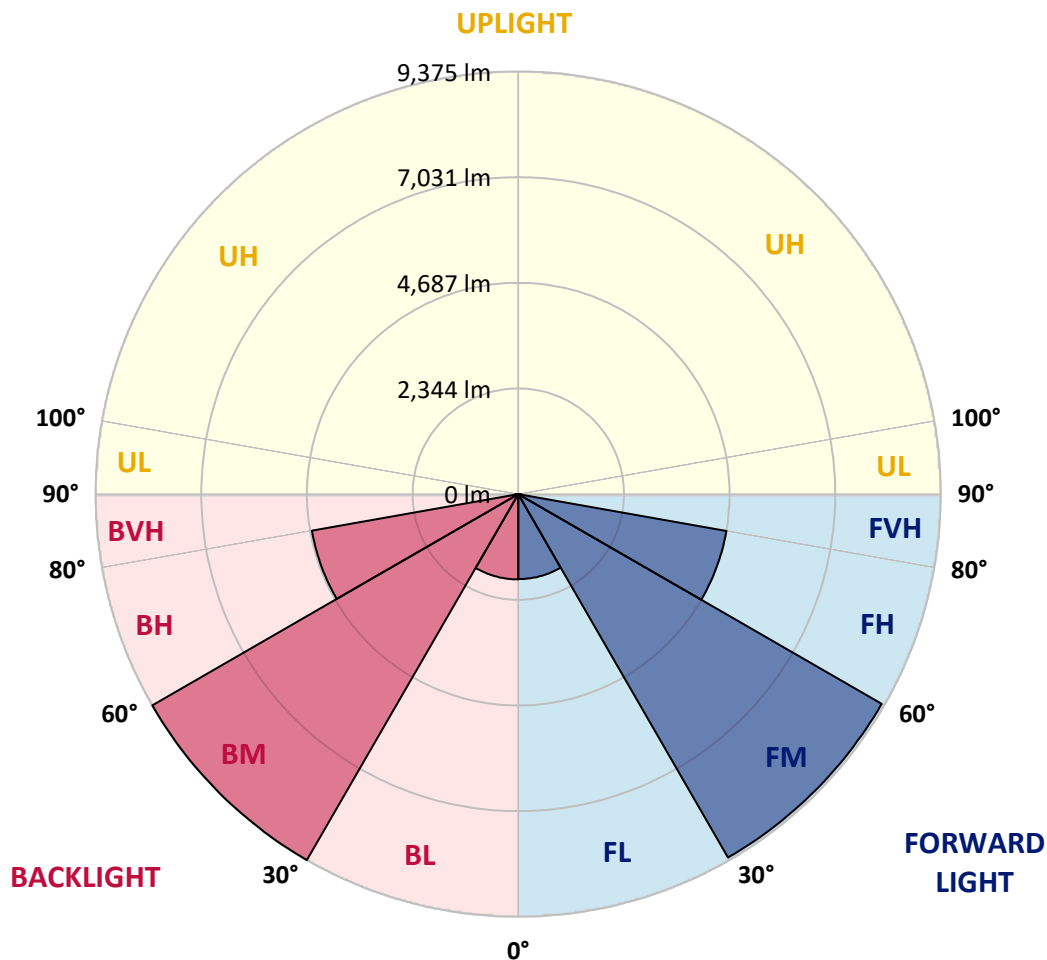
CATALOG NUMBER: IFLD-L-SA7A-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1884.6	5.9			
FM (30°-60°)	9307.5	29.1			
FH (60°-80°)	4689.7	14.7			G2/5000
FVH (80°-90°)	69.5	0.2			G1/100
BL (0°-30°)	1891.9	5.9	B3/2500		
BM (30°-60°)	9374.7	29.4	B5		
BH (60°-80°)	4649.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	65.9	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-G2

Type V Short





REPORT NUMBER: P479000
 CATALOG NUMBER: IFLD-L-SA7A-750-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7
2.5°	3694.8	3702.1	3768.0	3742.4	3764.4	3724.1	3753.4	3815.6	3742.4	3797.3	3815.6
5°	3735.1	3746.0	3746.0	3771.7	3786.3	3779.0	3797.3	3771.7	3841.3	3812.0	3855.9
7.5°	3881.5	3863.2	3833.9	3855.9	3859.6	3877.9	3896.2	3929.1	3918.2	3892.5	3936.5
10°	3907.2	3892.5	3936.5	3940.1	3921.8	3907.2	3925.5	3925.5	3958.4	3965.8	3965.8
12.5°	3951.1	3965.8	3962.1	3991.4	3995.0	3984.1	4013.4	4068.3	4053.6	4064.6	4039.0
15°	4119.6	4101.2	4097.6	4126.9	4174.5	4104.9	4156.2	4152.5	4137.9	4159.8	4101.2
17.5°	4266.0	4207.4	4233.1	4280.7	4262.4	4277.0	4342.9	4284.3	4299.0	4273.3	4255.0
20°	4394.2	4346.6	4350.2	4368.6	4368.6	4412.5	4438.1	4416.2	4401.5	4397.9	4405.2
22.5°	4537.0	4482.1	4485.7	4562.6	4588.3	4573.6	4555.3	4591.9	4599.3	4570.0	4602.9
25°	4643.2	4701.8	4720.1	4756.7	4701.8	4742.1	4727.4	4797.0	4840.9	4782.3	4822.6
27.5°	4921.5	4895.9	4943.5	4939.8	4983.7	4943.5	4969.1	4991.1	5009.4	5013.0	4994.7
30°	5170.5	5181.5	5133.9	5262.0	5159.5	5225.4	5269.4	5280.3	5302.3	5302.3	5247.4
32.5°	5434.1	5412.2	5489.1	5459.8	5441.5	5492.7	5445.1	5595.3	5507.4	5558.6	5496.4
35°	5730.8	5730.8	5760.0	5840.6	5730.8	5697.8	5785.7	5847.9	5847.9	5756.4	5778.4
37.5°	6064.0	6034.7	6071.3	6173.8	6089.6	5979.8	6140.9	6166.5	6148.2	6122.6	6078.6
40°	6298.3	6291.0	6364.2	6499.7	6378.9	6356.9	6386.2	6455.8	6477.8	6503.4	6444.8
42.5°	6693.8	6726.8	6939.2	6906.2	6807.3	6730.4	6723.1	6983.1	6920.8	6854.9	6822.0
45°	7279.7	7250.4	7360.3	7363.9	7235.8	7067.3	7103.9	7342.0	7448.1	7301.7	7356.6
47.5°	7744.8	7759.4	7836.3	7993.8	7697.2	7521.4	7656.9	8041.4	8008.4	7953.5	8004.7
50°	8367.3	8433.2	8674.9	8619.9	8356.3	8140.2	8436.8	8799.4	8839.6	8638.2	8601.6
52.5°	9227.8	9330.3	9462.2	9506.1	9253.4	9176.5	9194.8	9645.2	9546.4	9352.3	9227.8
55°	9982.1	10029.7	10271.4	10633.9	10615.6	10245.8	10458.2	10626.6	10223.8	9824.7	9857.6
57.5°	10304.4	10326.3	11000.1	11725.2	12157.3	12241.5	11999.8	11432.2	10472.8	9703.8	9656.2
60°	9502.4	9711.2	10524.1	12160.9	14134.6	15108.7	13501.1	11523.8	9890.6	8956.8	8887.2
62.5°	7594.6	7605.6	8814.0	11296.7	15365.0	17917.3	14076.1	10663.2	8338.0	7279.7	7001.4
64°	5408.5	5511.0	6898.9	10000.4	15108.7	19059.8	14006.5	9539.1	6873.2	5371.9	5177.8
65°	3881.5	4024.3	5364.6	8682.2	14508.1	18924.3	13797.8	8572.3	5558.6	4101.2	3903.5
67.5°	1428.1	1486.7	2105.5	4342.9	10417.9	16126.7	10934.2	4712.8	2442.4	1739.4	1563.6
70°	662.8	666.5	780.0	1435.4	4555.3	10784.1	5218.1	1768.7	919.1	728.7	677.4
72.5°	487.0	498.0	545.6	662.8	1340.2	4566.3	1713.7	725.0	538.3	476.0	465.1
75°	395.5	402.8	417.4	479.7	618.8	1223.0	695.7	501.7	428.4	384.5	369.8
77.5°	303.9	303.9	336.9	366.2	410.1	571.2	461.4	399.1	347.9	303.9	292.9
80°	219.7	223.4	263.7	285.6	278.3	377.2	333.2	329.6	285.6	238.0	219.7
82.5°	128.2	139.1	190.4	205.1	197.7	223.4	241.7	256.3	223.4	164.8	150.1
85°	73.2	76.9	109.9	113.5	113.5	106.2	139.1	153.8	150.1	102.5	91.5
87.5°	22.0	22.0	29.3	29.3	33.0	36.6	54.9	65.9	73.2	51.3	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479000
 CATALOG NUMBER: IFLD-L-SA7A-750-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7	3738.7
2.5°	3797.3	3742.4	3746.0	3760.7	3713.1	3731.4	3786.3	3746.0	3735.1	3713.1	3702.1
5°	3779.0	3837.6	3815.6	3822.9	3812.0	3760.7	3753.4	3786.3	3804.6	3771.7	3837.6
7.5°	3907.2	3881.5	3852.2	3863.2	3837.6	3881.5	3910.8	3844.9	3877.9	3859.6	3822.9
10°	3980.4	3932.8	3954.8	3947.4	3929.1	3973.1	3943.8	3936.5	3907.2	3866.9	3925.5
12.5°	4006.0	4061.0	4097.6	4035.3	4046.3	4024.3	4006.0	4006.0	3973.1	3962.1	3973.1
15°	4119.6	4167.2	4152.5	4200.1	4137.9	4159.8	4181.8	4126.9	4156.2	4075.6	4137.9
17.5°	4328.3	4288.0	4339.3	4277.0	4299.0	4342.9	4273.3	4273.3	4295.3	4251.4	4196.5
20°	4460.1	4441.8	4423.5	4427.1	4390.5	4430.8	4408.8	4397.9	4364.9	4379.5	4408.8
22.5°	4584.6	4559.0	4566.3	4577.3	4602.9	4584.6	4573.6	4584.6	4504.0	4577.3	4474.7
25°	4738.4	4808.0	4786.0	4833.6	4760.4	4808.0	4804.3	4734.7	4778.7	4749.4	4727.4
27.5°	4994.7	4958.1	4991.1	4932.5	4983.7	4987.4	4943.5	5060.6	5009.4	5002.1	4987.4
30°	5324.3	5298.7	5276.7	5243.7	5284.0	5251.1	5287.7	5298.7	5251.1	5214.4	5144.9
32.5°	5511.0	5580.6	5606.3	5525.7	5529.4	5547.7	5514.7	5481.8	5511.0	5522.0	5511.0
35°	5774.7	5840.6	5855.3	5793.0	5760.0	5851.6	5785.7	5895.5	5800.3	5804.0	5705.1
37.5°	6082.3	6100.6	6225.1	6155.5	6126.2	6082.3	6203.1	6188.5	6210.5	6034.7	6122.6
40°	6430.2	6496.1	6565.6	6389.9	6386.2	6426.5	6419.2	6503.4	6463.1	6437.5	6375.2
42.5°	6811.0	6950.1	6961.1	6843.9	6770.7	6763.4	6800.0	6986.8	6990.4	6822.0	6748.7
45°	7316.3	7470.1	7429.8	7202.8	7122.2	7111.3	7290.7	7371.3	7440.8	7374.9	7312.7
47.5°	7946.2	8048.7	8019.4	7810.7	7550.7	7623.9	7799.7	8052.4	7979.1	7891.2	7818.0
50°	8619.9	8740.8	8678.5	8469.8	8220.8	8220.8	8436.8	8759.1	8737.1	8565.0	8499.1
52.5°	9366.9	9542.7	9685.5	9388.9	9180.2	9213.1	9553.7	9670.9	9615.9	9495.1	9440.2
55°	9923.5	10260.4	10553.4	10568.0	10579.0	10575.3	10663.2	10780.4	10388.6	10194.5	9996.8
57.5°	9788.1	10425.2	11428.6	12109.7	12311.1	12417.2	12387.9	11846.0	10919.6	10282.4	10348.3
60°	8821.3	9861.3	11479.8	13665.9	15130.7	14984.2	14449.6	12307.4	10626.6	9550.0	9414.5
62.5°	7038.0	8290.4	10619.3	14105.3	18140.7	18096.7	15299.1	11241.8	8854.3	7492.1	7407.9
64°	5302.3	6620.6	9473.1	13991.8	19195.3	19239.2	15083.1	9930.9	6928.2	5302.3	5174.2
65°	4057.3	5280.3	8349.0	13757.5	18968.2	18993.9	14482.5	8576.0	5265.7	3764.4	3625.2
67.5°	1614.9	2248.4	4529.7	10432.5	16287.8	16218.2	10333.7	4148.8	2014.0	1310.9	1285.3
70°	688.4	856.9	1589.2	4943.5	10904.9	10703.5	4449.1	1347.6	747.0	626.2	622.5
72.5°	472.4	523.6	681.1	1527.0	4533.3	4427.1	1267.0	626.2	509.0	468.7	468.7
75°	380.8	417.4	494.3	640.8	1201.1	1157.1	596.9	461.4	406.5	377.2	373.5
77.5°	296.6	333.2	388.2	443.1	549.3	545.6	399.1	347.9	314.9	292.9	285.6
80°	234.4	271.0	307.6	314.9	358.9	351.5	271.0	274.6	256.3	212.4	208.7
82.5°	161.1	219.7	245.3	223.4	212.4	212.4	194.1	194.1	179.4	131.8	120.8
85°	98.9	146.5	153.8	131.8	98.9	98.9	106.2	102.5	95.2	69.6	65.9
87.5°	51.3	69.6	62.3	51.3	33.0	33.0	29.3	22.0	22.0	18.3	18.3
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)