

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: P478966

Luminaire Tested: **IFLD-L-SA8A-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478966
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-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

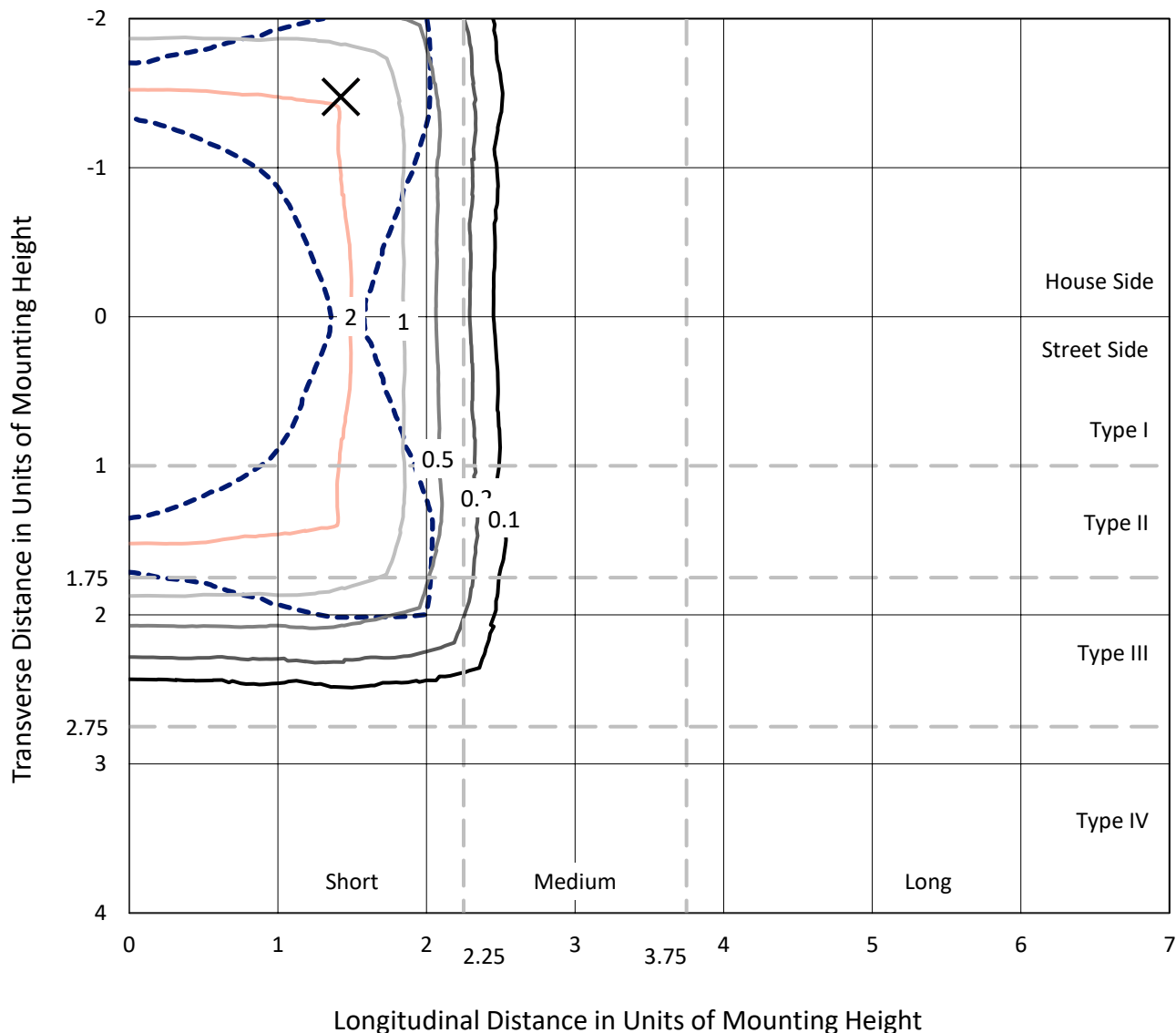
Lumens per Lamp: N/A
Luminaire Lumens: 34166.3 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

REPORT NUMBER: P478966
 CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

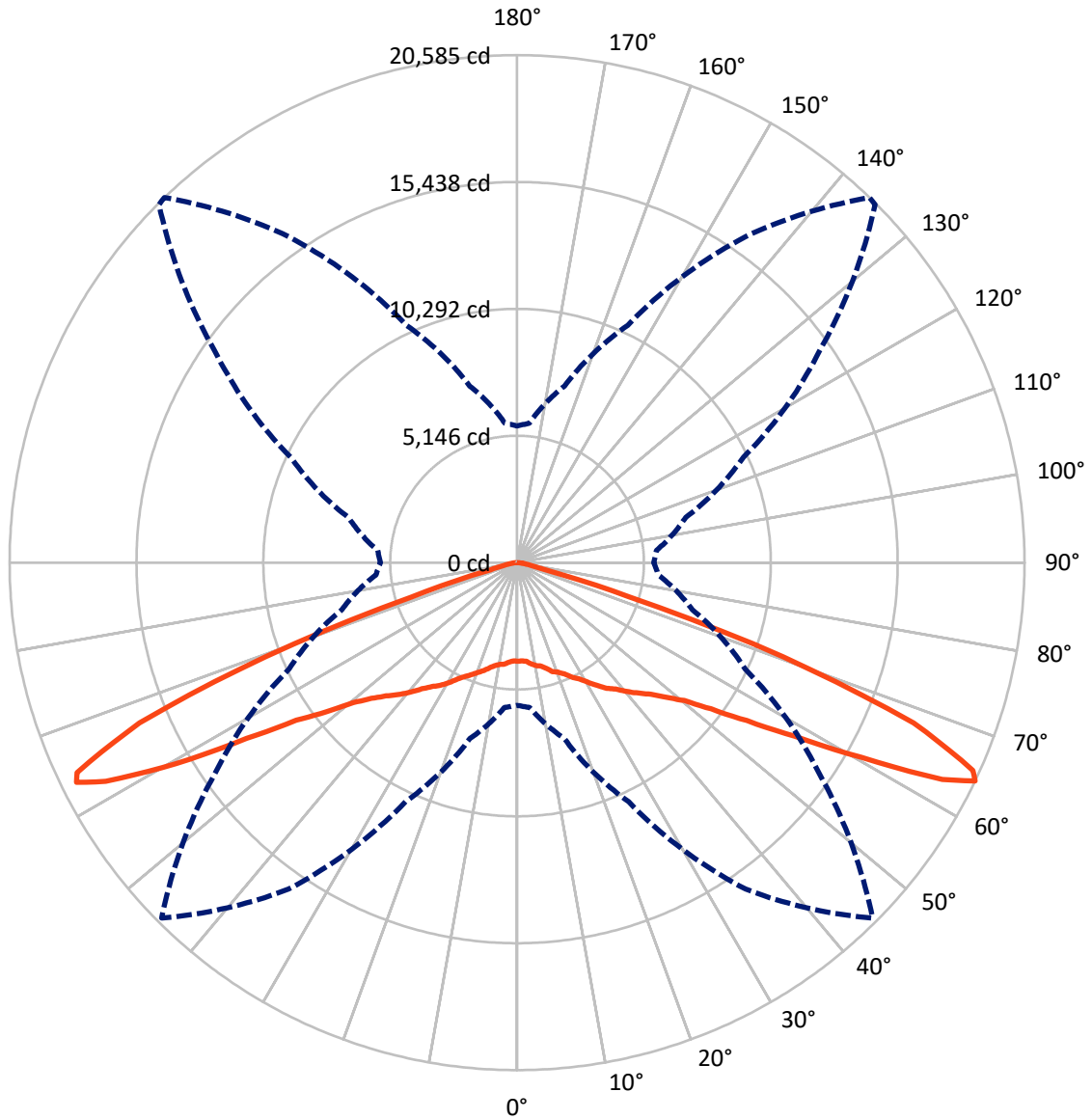
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P478966
CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478966

CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17099.4	0.0	17099.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17066.9	0.0	17066.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	34166.3	0.0	34166.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	1.2
10°-20°	1266.8	3.7
20°-30°	2380.8	7.0
30°-40°	3926.4	11.5
40°-50°	6140.6	18.0
50°-60°	9921.7	29.0
60°-70°	8933.8	26.1
70°-80°	1058.3	3.1
80°-90°	144.9	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°	34166.3	100.0
0°-180°	34166.3	100.0

Coefficient of Utilization



REPORT NUMBER: P478966

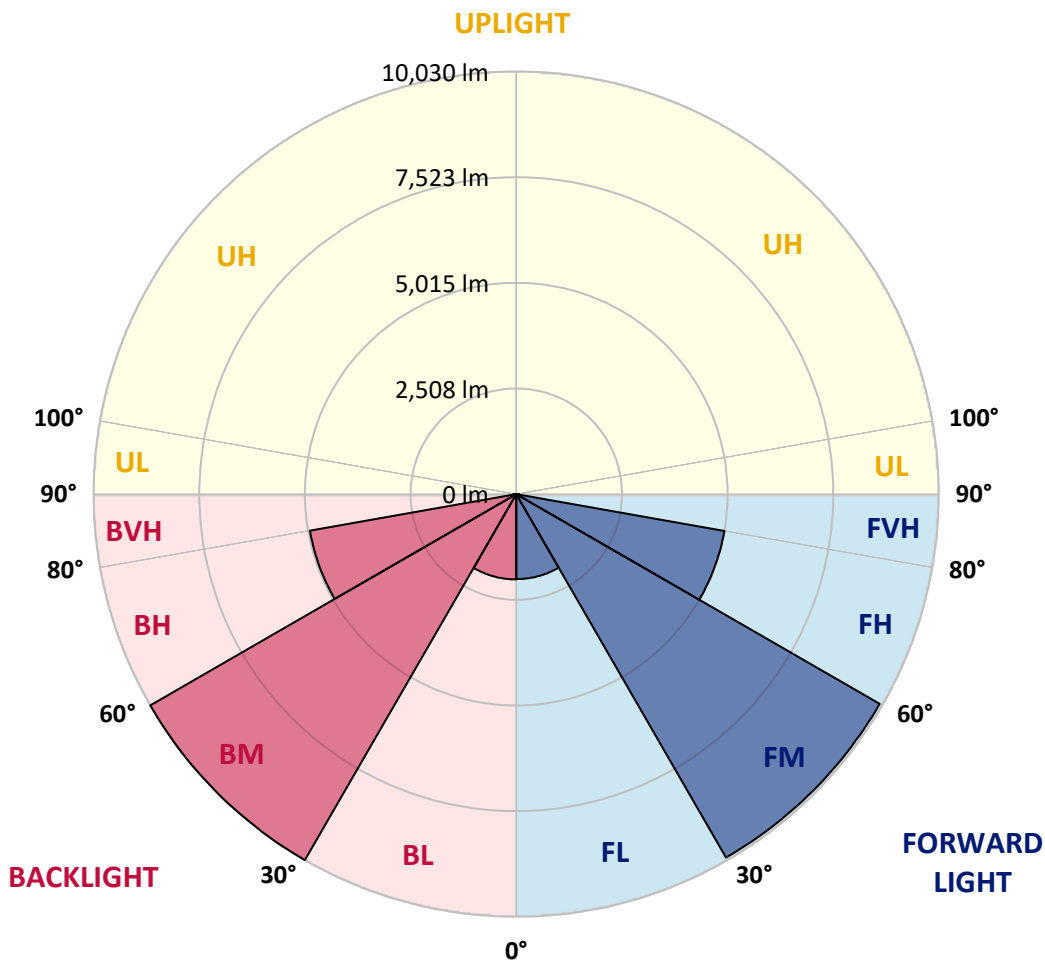
CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.4	5.9			
FM (30°-60°)	9958.4	29.1			
FH (60°-80°)	5017.7	14.7			G3/7500
FVH (80°-90°)	74.3	0.2			G1/100
BL (0°-30°)	2024.2	5.9	B3/2500		
BM (30°-60°)	10030.3	29.4	B5		
BH (60°-80°)	4974.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	70.5	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





REPORT NUMBER: P478966
 CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	3953.2	3961.0	4031.5	4004.1	4027.6	3984.5	4015.8	4082.4	4004.1	4062.9	4082.4
5°	3996.2	4008.0	4008.0	4035.4	4051.1	4043.3	4062.9	4035.4	4109.9	4078.5	4125.5
7.5°	4153.0	4133.4	4102.0	4125.5	4129.5	4149.0	4168.6	4203.9	4192.1	4164.7	4211.7
10°	4180.4	4164.7	4211.7	4215.7	4196.1	4180.4	4200.0	4200.0	4235.2	4243.1	4243.1
12.5°	4227.4	4243.1	4239.2	4270.5	4274.4	4262.7	4294.0	4352.8	4337.1	4348.9	4321.4
15°	4407.6	4388.0	4384.1	4415.5	4466.4	4392.0	4446.8	4442.9	4427.2	4450.7	4388.0
17.5°	4564.3	4501.7	4529.1	4580.0	4560.4	4576.1	4646.6	4583.9	4599.6	4572.2	4552.6
20°	4701.5	4650.5	4654.5	4674.0	4674.0	4721.1	4748.5	4725.0	4709.3	4705.4	4713.2
22.5°	4854.3	4795.5	4799.4	4881.7	4909.1	4893.4	4873.9	4913.0	4920.9	4889.5	4924.8
25°	4967.9	5030.6	5050.2	5089.3	5030.6	5073.7	5058.0	5132.4	5179.5	5116.8	5159.9
27.5°	5265.6	5238.2	5289.2	5285.2	5332.2	5289.2	5316.6	5340.1	5359.7	5363.6	5344.0
30°	5532.1	5543.8	5492.9	5630.0	5520.3	5590.8	5637.8	5649.6	5673.1	5673.1	5614.3
32.5°	5814.2	5790.6	5872.9	5841.6	5822.0	5876.8	5825.9	5986.5	5892.5	5947.4	5880.8
35°	6131.5	6131.5	6162.8	6249.0	6131.5	6096.2	6190.3	6256.9	6256.9	6158.9	6182.4
37.5°	6488.0	6456.7	6495.9	6605.6	6515.5	6397.9	6570.3	6597.7	6578.1	6550.7	6503.7
40°	6738.8	6730.9	6809.3	6954.3	6825.0	6801.5	6832.8	6907.2	6930.7	6958.2	6895.5
42.5°	7161.9	7197.2	7424.4	7389.1	7283.4	7201.1	7193.2	7471.4	7404.8	7334.3	7299.0
45°	7788.8	7757.4	7875.0	7878.9	7741.8	7561.5	7600.7	7855.4	7969.0	7812.3	7871.0
47.5°	8286.3	8302.0	8384.3	8552.8	8235.4	8047.3	8192.3	8603.7	8568.4	8509.7	8564.5
50°	8952.4	9022.9	9281.5	9222.7	8940.6	8709.5	9026.8	9414.7	9457.8	9242.3	9203.1
52.5°	9873.1	9982.8	10123.8	10170.8	9900.5	9818.2	9837.8	10319.7	10213.9	10006.3	9873.1
55°	10680.2	10731.1	10989.7	11377.6	11358.0	10962.3	11189.5	11369.7	10938.8	10511.7	10547.0
57.5°	11024.9	11048.5	11769.3	12545.1	13007.4	13097.5	12838.9	12231.7	11205.2	10382.4	10331.5
60°	10166.9	10390.2	11260.0	13011.3	15123.1	16165.2	14445.3	12329.6	10582.2	9583.2	9508.7
62.5°	8125.7	8137.5	9430.4	12086.7	16439.5	19170.2	15060.4	11408.9	8921.0	7788.8	7491.0
64°	5786.7	5896.4	7381.3	10699.8	16165.2	20392.6	14985.9	10206.1	7353.9	5747.5	5539.9
65°	4153.0	4305.8	5739.7	9289.3	15522.7	20247.7	14762.6	9171.8	5947.4	4388.0	4176.5
67.5°	1528.0	1590.7	2252.8	4646.6	11146.4	17254.4	11698.8	5042.3	2613.2	1861.0	1672.9
70°	709.1	713.1	834.5	1535.8	4873.9	11538.2	5583.0	1892.3	983.4	779.7	724.8
72.5°	521.1	532.8	583.8	709.1	1433.9	4885.6	1833.6	775.7	575.9	509.3	497.6
75°	423.1	431.0	446.6	513.2	662.1	1308.6	744.4	536.8	458.4	411.4	395.7
77.5°	325.2	325.2	360.4	391.8	438.8	611.2	493.7	427.1	372.2	325.2	313.4
80°	235.1	239.0	282.1	305.6	297.8	403.5	356.5	352.6	305.6	254.7	235.1
82.5°	137.1	148.9	203.7	219.4	211.6	239.0	258.6	274.3	239.0	176.3	160.6
85°	78.4	82.3	117.5	121.5	121.5	113.6	148.9	164.6	160.6	109.7	97.9
87.5°	23.5	23.5	31.3	31.3	35.3	39.2	58.8	70.5	78.4	54.9	50.9
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: P478966
 CATALOG NUMBER: IFLD-L-SA8A-740-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	4062.9	4004.1	4008.0	4023.7	3972.7	3992.3	4051.1	4008.0	3996.2	3972.7	3961.0
5°	4043.3	4105.9	4082.4	4090.3	4078.5	4023.7	4015.8	4051.1	4070.7	4035.4	4105.9
7.5°	4180.4	4153.0	4121.6	4133.4	4105.9	4153.0	4184.3	4113.8	4149.0	4129.5	4090.3
10°	4258.7	4207.8	4231.3	4223.5	4203.9	4250.9	4219.6	4211.7	4180.4	4137.3	4200.0
12.5°	4286.2	4344.9	4384.1	4317.5	4329.3	4305.8	4286.2	4286.2	4250.9	4239.2	4250.9
15°	4407.6	4458.6	4442.9	4493.8	4427.2	4450.7	4474.2	4415.5	4446.8	4360.6	4427.2
17.5°	4630.9	4587.9	4642.7	4576.1	4599.6	4646.6	4572.2	4572.2	4595.7	4548.7	4489.9
20°	4772.0	4752.4	4732.8	4736.7	4697.6	4740.6	4717.1	4705.4	4670.1	4685.8	4717.1
22.5°	4905.2	4877.8	4885.6	4897.4	4924.8	4905.2	4893.4	4905.2	4819.0	4897.4	4787.7
25°	5069.8	5144.2	5120.7	5171.6	5093.3	5144.2	5140.3	5065.8	5112.8	5081.5	5058.0
27.5°	5344.0	5304.8	5340.1	5277.4	5332.2	5336.2	5289.2	5414.5	5359.7	5351.8	5336.2
30°	5696.6	5669.2	5645.7	5610.4	5653.5	5618.3	5657.4	5669.2	5618.3	5579.1	5504.6
32.5°	5896.4	5970.9	5998.3	5912.1	5916.0	5935.6	5900.3	5865.1	5896.4	5908.2	5896.4
35°	6178.5	6249.0	6264.7	6198.1	6162.8	6260.8	6190.3	6307.8	6205.9	6209.9	6104.1
37.5°	6507.6	6527.2	6660.4	6586.0	6554.6	6507.6	6636.9	6621.2	6644.7	6456.7	6550.7
40°	6879.8	6950.3	7024.8	6836.7	6832.8	6875.9	6868.1	6958.2	6915.1	6887.7	6821.0
42.5°	7287.3	7436.2	7447.9	7322.5	7244.2	7236.3	7275.5	7475.3	7479.3	7299.0	7220.7
45°	7827.9	7992.5	7949.4	7706.5	7620.3	7608.5	7800.5	7886.7	7961.2	7890.6	7824.0
47.5°	8501.8	8611.5	8580.2	8356.9	8078.7	8157.0	8345.1	8615.4	8537.1	8443.1	8364.7
50°	9222.7	9352.0	9285.4	9062.1	8795.7	8795.7	9026.8	9371.6	9348.1	9163.9	9093.4
52.5°	10022.0	10210.0	10362.8	10045.5	9822.2	9857.4	10221.8	10347.1	10288.4	10159.1	10100.3
55°	10617.5	10977.9	11291.4	11307.0	11318.8	11314.9	11408.9	11534.3	11115.1	10907.4	10695.8
57.5°	10472.5	11154.2	12227.7	12956.5	13171.9	13285.6	13254.2	12674.4	11683.2	11001.4	11072.0
60°	9438.2	10550.9	12282.6	14621.6	16188.7	16032.0	15460.0	13168.0	11369.7	10217.9	10072.9
62.5°	7530.2	8870.1	11361.9	15091.7	19409.2	19362.2	16368.9	12027.9	9473.5	8016.0	7925.9
64°	5673.1	7083.5	10135.6	14970.3	20537.6	20584.6	16137.8	10625.3	7412.6	5673.1	5536.0
65°	4341.0	5649.6	8932.8	14719.5	20294.7	20322.1	15495.3	9175.7	5633.9	4027.6	3878.7
67.5°	1727.8	2405.6	4846.4	11162.1	17426.8	17352.3	11056.3	4439.0	2154.8	1402.6	1375.2
70°	736.6	916.8	1700.4	5289.2	11667.5	11452.0	4760.2	1441.8	799.2	670.0	666.0
72.5°	505.4	560.3	728.7	1633.8	4850.3	4736.7	1355.6	670.0	544.6	501.5	501.5
75°	407.5	446.6	528.9	685.6	1285.1	1238.1	638.6	493.7	434.9	403.5	399.6
77.5°	317.3	356.5	415.3	474.1	587.7	583.8	427.1	372.2	336.9	313.4	305.6
80°	250.7	289.9	329.1	336.9	384.0	376.1	289.9	293.8	274.3	227.2	223.3
82.5°	172.4	235.1	262.5	239.0	227.2	227.2	207.6	207.6	192.0	141.0	129.3
85°	105.8	156.7	164.6	141.0	105.8	105.8	113.6	109.7	101.9	74.4	70.5
87.5°	54.9	74.4	66.6	54.9	35.3	35.3	31.3	23.5	23.5	19.6	19.6
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)