

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: P478811

Luminaire Tested: **IFLD-L-SA8B-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

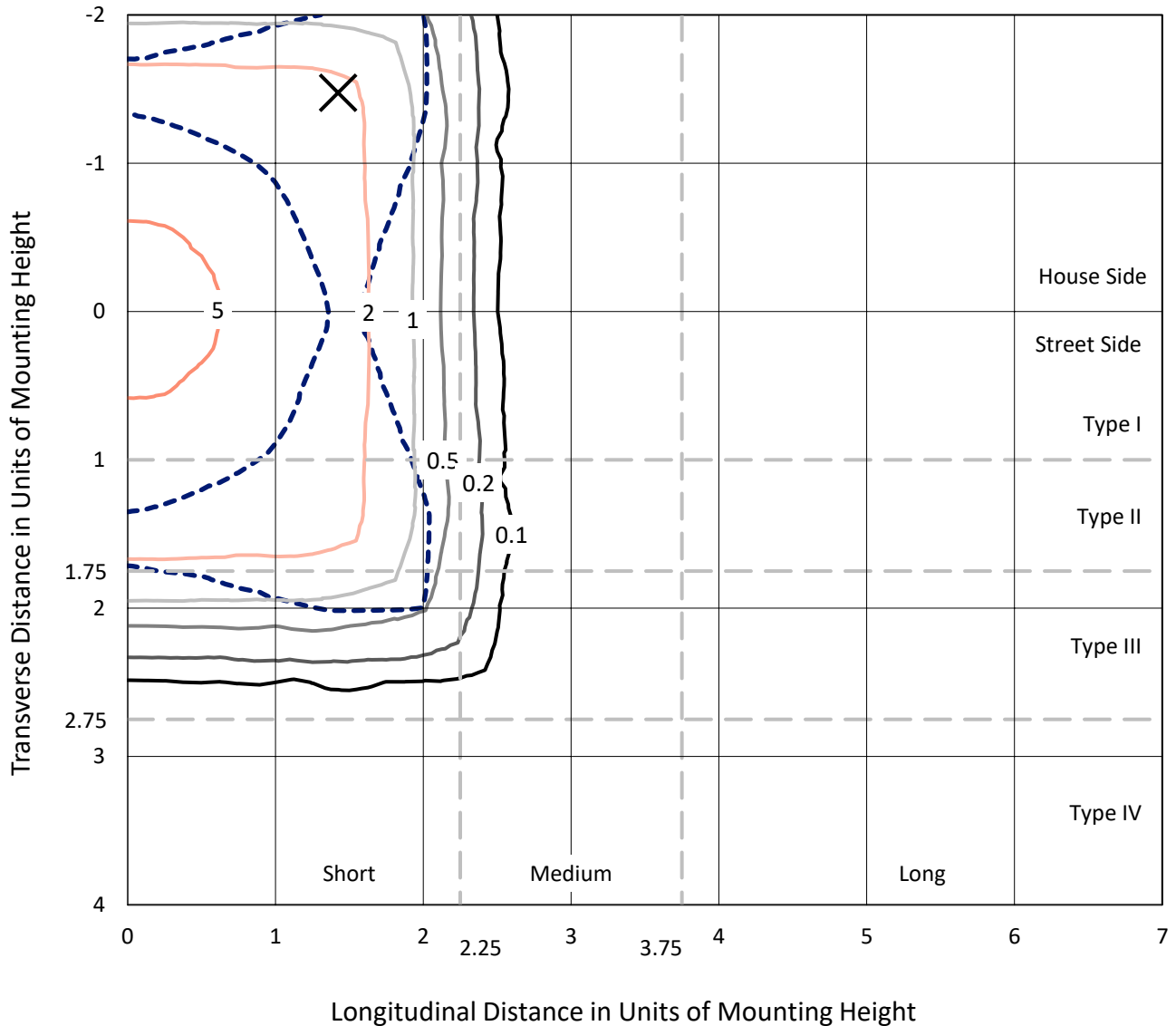
Lumens per Lamp: N/A
Luminaire Lumens: 29899.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

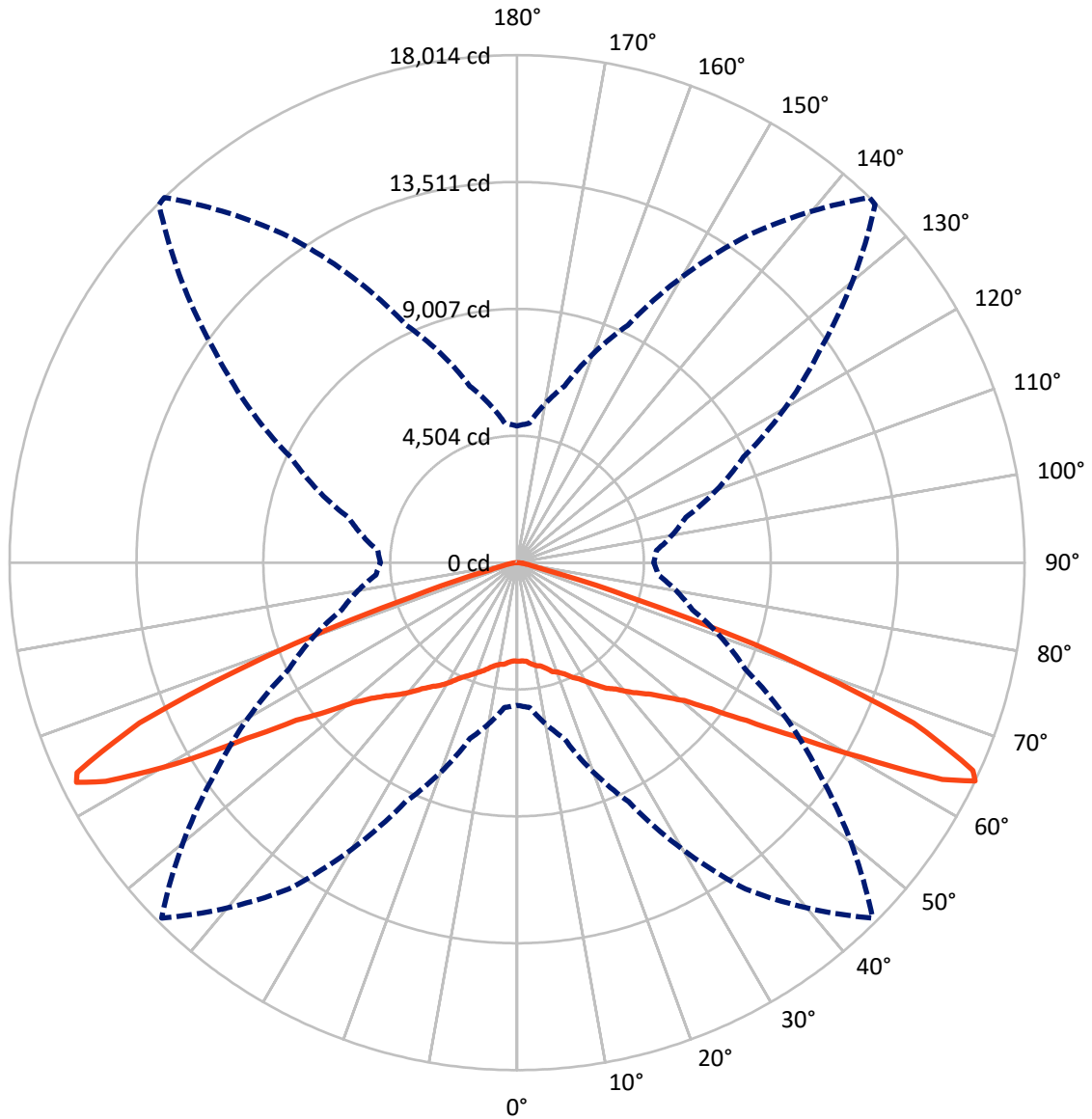
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	14964.2	0.0	14964.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14935.7	0.0	14935.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	29899.9	0.0	29899.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.0	1.2
10°-20°	1108.6	3.7
20°-30°	2083.5	7.0
30°-40°	3436.1	11.5
40°-50°	5373.8	18.0
50°-60°	8682.8	29.0
60°-70°	7818.3	26.1
70°-80°	926.1	3.1
80°-90°	126.8	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°	29899.9	100.0
0°-180°	29899.9	100.0

Coefficient of Utilization



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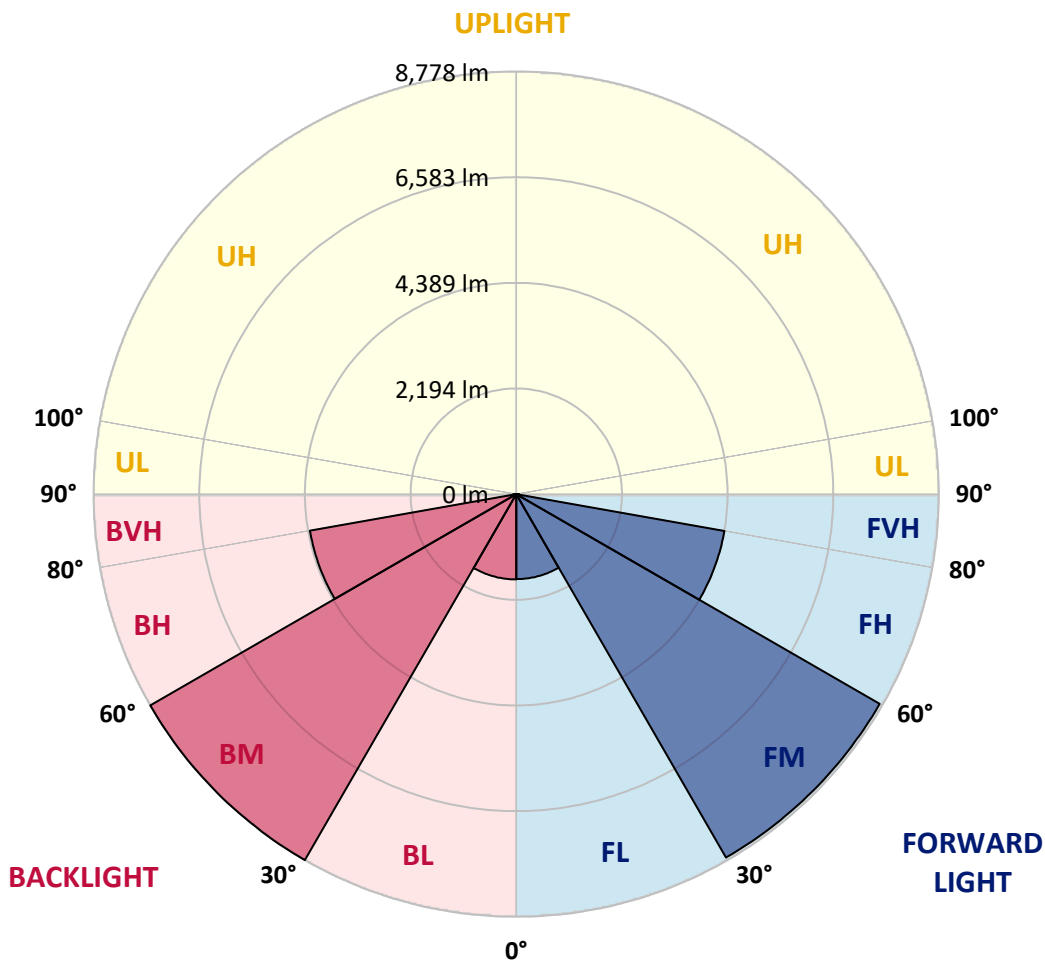
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.6	5.9			
FM (30°-60°)	8714.9	29.1			
FH (60°-80°)	4391.1	14.7			G2/5000
FVH (80°-90°)	65.0	0.2			G1/100
BL (0°-30°)	1771.5	5.9	B3/2500		
BM (30°-60°)	8777.8	29.4	B5		
BH (60°-80°)	4353.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	61.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
2.5°	3459.5	3466.4	3528.1	3504.1	3524.7	3486.9	3514.4	3572.7	3504.1	3555.5	3572.7
5°	3497.2	3507.5	3507.5	3531.5	3545.2	3538.4	3555.5	3531.5	3596.7	3569.2	3610.4
7.5°	3634.4	3617.2	3589.8	3610.4	3613.8	3631.0	3648.1	3679.0	3668.7	3644.7	3685.8
10°	3658.4	3644.7	3685.8	3689.2	3672.1	3658.4	3675.5	3675.5	3706.4	3713.2	3713.2
12.5°	3699.5	3713.2	3709.8	3737.2	3740.7	3730.4	3757.8	3809.2	3795.5	3805.8	3781.8
15°	3857.2	3840.1	3836.7	3864.1	3908.7	3843.5	3891.5	3888.1	3874.4	3895.0	3840.1
17.5°	3994.4	3939.5	3963.5	4008.1	3991.0	4004.7	4066.4	4011.5	4025.2	4001.2	3984.1
20°	4114.4	4069.8	4073.3	4090.4	4090.4	4131.5	4155.5	4135.0	4121.3	4117.8	4124.7
22.5°	4248.1	4196.7	4200.1	4272.1	4296.1	4282.4	4265.3	4299.5	4306.4	4279.0	4309.8
25°	4347.5	4402.4	4419.5	4453.8	4402.4	4440.1	4426.4	4491.5	4532.7	4477.8	4515.5
27.5°	4608.1	4584.1	4628.7	4625.3	4666.4	4628.7	4652.7	4673.3	4690.4	4693.8	4676.7
30°	4841.3	4851.6	4807.0	4927.0	4831.0	4892.7	4933.8	4944.1	4964.7	4964.7	4913.3
32.5°	5088.1	5067.6	5139.6	5112.1	5095.0	5143.0	5098.4	5239.0	5156.7	5204.7	5146.4
35°	5365.9	5365.9	5393.3	5468.7	5365.9	5335.0	5417.3	5475.6	5475.6	5389.9	5410.4
37.5°	5677.9	5650.4	5684.7	5780.7	5701.9	5599.0	5749.9	5773.9	5756.7	5732.7	5691.6
40°	5897.3	5890.4	5959.0	6085.9	5972.7	5952.2	5979.6	6044.7	6065.3	6089.3	6034.4
42.5°	6267.6	6298.5	6497.3	6466.5	6373.9	6301.9	6295.0	6538.5	6480.2	6418.5	6387.6
45°	6816.2	6788.8	6891.6	6895.0	6775.0	6617.3	6651.6	6874.5	6973.9	6836.8	6888.2
47.5°	7251.6	7265.3	7337.3	7484.8	7207.0	7042.5	7169.3	7529.3	7498.5	7447.1	7495.1
50°	7834.5	7896.2	8122.5	8071.1	7824.2	7621.9	7899.6	8239.1	8276.8	8088.2	8053.9
52.5°	8640.2	8736.2	8859.7	8900.8	8664.2	8592.2	8609.4	9031.1	8938.5	8756.8	8640.2
55°	9346.5	9391.1	9617.4	9956.8	9939.7	9593.4	9792.3	9950.0	9572.8	9199.1	9230.0
57.5°	9648.3	9668.8	10299.7	10978.6	11383.2	11462.0	11235.7	10704.3	9806.0	9086.0	9041.4
60°	8897.4	9092.8	9854.0	11386.6	13234.6	14146.7	12641.5	10790.0	9260.8	8386.5	8321.4
62.5°	7111.0	7121.3	8252.8	10577.4	14386.7	16776.4	13179.8	9984.3	7807.1	6816.2	6555.6
64°	5064.1	5160.1	6459.6	9363.7	14146.7	17846.2	13114.6	8931.7	6435.6	5029.8	4848.1
65°	3634.4	3768.1	5023.0	8129.4	13584.4	17719.3	12919.2	8026.5	5204.7	3840.1	3655.0
67.5°	1337.2	1392.0	1971.5	4066.4	9754.5	15099.8	10238.0	4412.7	2286.9	1628.6	1464.0
70°	620.6	624.0	730.3	1344.0	4265.3	10097.4	4885.8	1656.0	860.6	682.3	634.3
72.5°	456.0	466.3	510.9	620.6	1254.9	4275.5	1604.6	678.9	504.0	445.7	435.4
75°	370.3	377.2	390.9	449.2	579.4	1145.2	651.4	469.7	401.2	360.0	346.3
77.5°	284.6	284.6	315.4	342.9	384.0	534.9	432.0	373.7	325.7	284.6	274.3
80°	205.7	209.1	246.9	267.4	260.6	353.2	312.0	308.6	267.4	222.9	205.7
82.5°	120.0	130.3	178.3	192.0	185.1	209.1	226.3	240.0	209.1	154.3	140.6
85°	68.6	72.0	102.9	106.3	106.3	99.4	130.3	144.0	140.6	96.0	85.7
87.5°	20.6	20.6	27.4	27.4	30.9	34.3	51.4	61.7	68.6	48.0	44.6
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°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
2.5°	3555.5	3504.1	3507.5	3521.2	3476.7	3493.8	3545.2	3507.5	3497.2	3476.7	3466.4
5°	3538.4	3593.2	3572.7	3579.5	3569.2	3521.2	3514.4	3545.2	3562.4	3531.5	3593.2
7.5°	3658.4	3634.4	3607.0	3617.2	3593.2	3634.4	3661.8	3600.1	3631.0	3613.8	3579.5
10°	3727.0	3682.4	3703.0	3696.1	3679.0	3720.1	3692.7	3685.8	3658.4	3620.7	3675.5
12.5°	3751.0	3802.4	3836.7	3778.4	3788.7	3768.1	3751.0	3751.0	3720.1	3709.8	3720.1
15°	3857.2	3901.8	3888.1	3932.7	3874.4	3895.0	3915.5	3864.1	3891.5	3816.1	3874.4
17.5°	4052.7	4015.0	4063.0	4004.7	4025.2	4066.4	4001.2	4001.2	4021.8	3980.7	3929.2
20°	4176.1	4159.0	4141.8	4145.3	4111.0	4148.7	4128.1	4117.8	4087.0	4100.7	4128.1
22.5°	4292.7	4268.7	4275.5	4285.8	4309.8	4292.7	4282.4	4292.7	4217.3	4285.8	4189.8
25°	4436.7	4501.8	4481.3	4525.8	4457.3	4501.8	4498.4	4433.3	4474.4	4447.0	4426.4
27.5°	4676.7	4642.4	4673.3	4618.4	4666.4	4669.8	4628.7	4738.4	4690.4	4683.6	4669.8
30°	4985.3	4961.3	4940.7	4909.8	4947.6	4916.7	4951.0	4961.3	4916.7	4882.4	4817.3
32.5°	5160.1	5225.3	5249.3	5173.9	5177.3	5194.4	5163.6	5132.7	5160.1	5170.4	5160.1
35°	5407.0	5468.7	5482.4	5424.1	5393.3	5479.0	5417.3	5520.1	5431.0	5434.4	5341.9
37.5°	5695.0	5712.2	5828.7	5763.6	5736.2	5695.0	5808.2	5794.4	5815.0	5650.4	5732.7
40°	6020.7	6082.4	6147.6	5983.0	5979.6	6017.3	6010.4	6089.3	6051.6	6027.6	5969.3
42.5°	6377.3	6507.6	6517.9	6408.2	6339.6	6332.7	6367.0	6541.9	6545.3	6387.6	6319.0
45°	6850.5	6994.5	6956.8	6744.2	6668.7	6658.5	6826.5	6901.9	6967.0	6905.3	6847.0
47.5°	7440.2	7536.2	7508.8	7313.3	7069.9	7138.5	7303.1	7539.6	7471.1	7388.8	7320.2
50°	8071.1	8184.2	8125.9	7930.5	7697.3	7697.3	7899.6	8201.4	8180.8	8019.6	7957.9
52.5°	8770.5	8935.1	9068.8	8791.1	8595.7	8626.5	8945.4	9055.1	9003.7	8890.5	8839.1
55°	9291.7	9607.1	9881.4	9895.1	9905.4	9902.0	9984.3	10094.0	9727.1	9545.4	9360.2
57.5°	9164.8	9761.4	10700.9	11338.6	11527.2	11626.6	11599.2	11091.7	10224.3	9627.7	9689.4
60°	8259.6	9233.4	10748.9	12795.8	14167.2	14030.1	13529.5	11523.7	9950.0	8942.0	8815.1
62.5°	6589.9	7762.5	9943.1	13207.2	16985.6	16944.5	14325.0	10526.0	8290.5	7015.0	6936.2
64°	4964.7	6199.0	8870.0	13100.9	17973.0	18014.2	14122.7	9298.5	6487.0	4964.7	4844.7
65°	3799.0	4944.1	7817.4	12881.5	17760.5	17784.5	13560.4	8029.9	4930.4	3524.7	3394.4
67.5°	1512.0	2105.2	4241.3	9768.3	15250.7	15185.5	9675.7	3884.7	1885.8	1227.5	1203.5
70°	644.6	802.3	1488.0	4628.7	10210.6	10022.0	4165.8	1261.7	699.4	586.3	582.9
72.5°	442.3	490.3	637.7	1429.8	4244.7	4145.3	1186.3	586.3	476.6	438.9	438.9
75°	356.6	390.9	462.9	600.0	1124.6	1083.5	558.9	432.0	380.6	353.2	349.7
77.5°	277.7	312.0	363.4	414.9	514.3	510.9	373.7	325.7	294.9	274.3	267.4
80°	219.4	253.7	288.0	294.9	336.0	329.2	253.7	257.1	240.0	198.9	195.4
82.5°	150.9	205.7	229.7	209.1	198.9	198.9	181.7	181.7	168.0	123.4	113.1
85°	92.6	137.1	144.0	123.4	92.6	92.6	99.4	96.0	89.1	65.1	61.7
87.5°	48.0	65.1	58.3	48.0	30.9	30.9	27.4	20.6	20.6	17.1	17.1
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)