

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: P479202

Luminaire Tested: **IFLD-L-SA8C-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479202
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

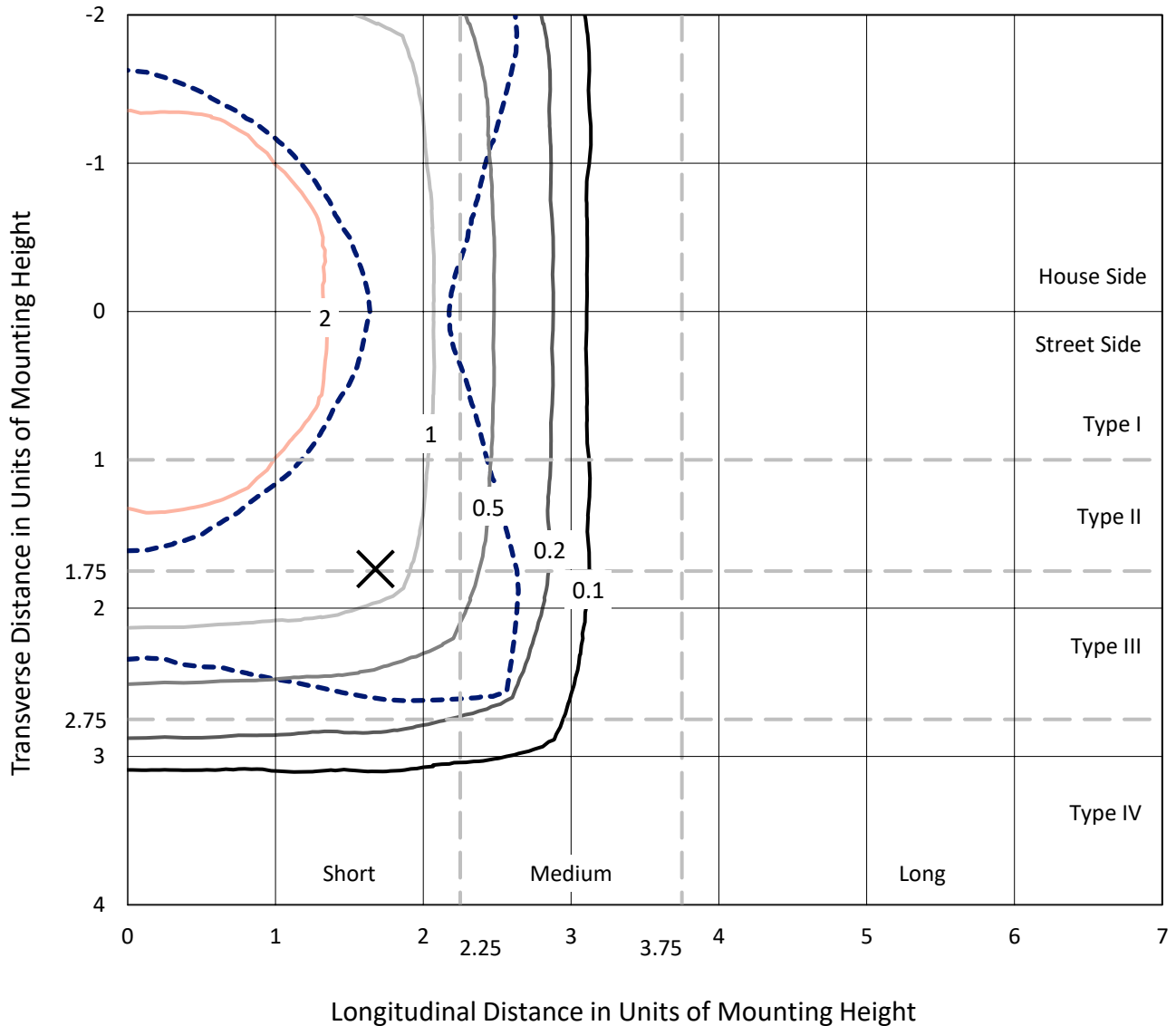
Lumens per Lamp: N/A
Luminaire Lumens: 37670.2 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3
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

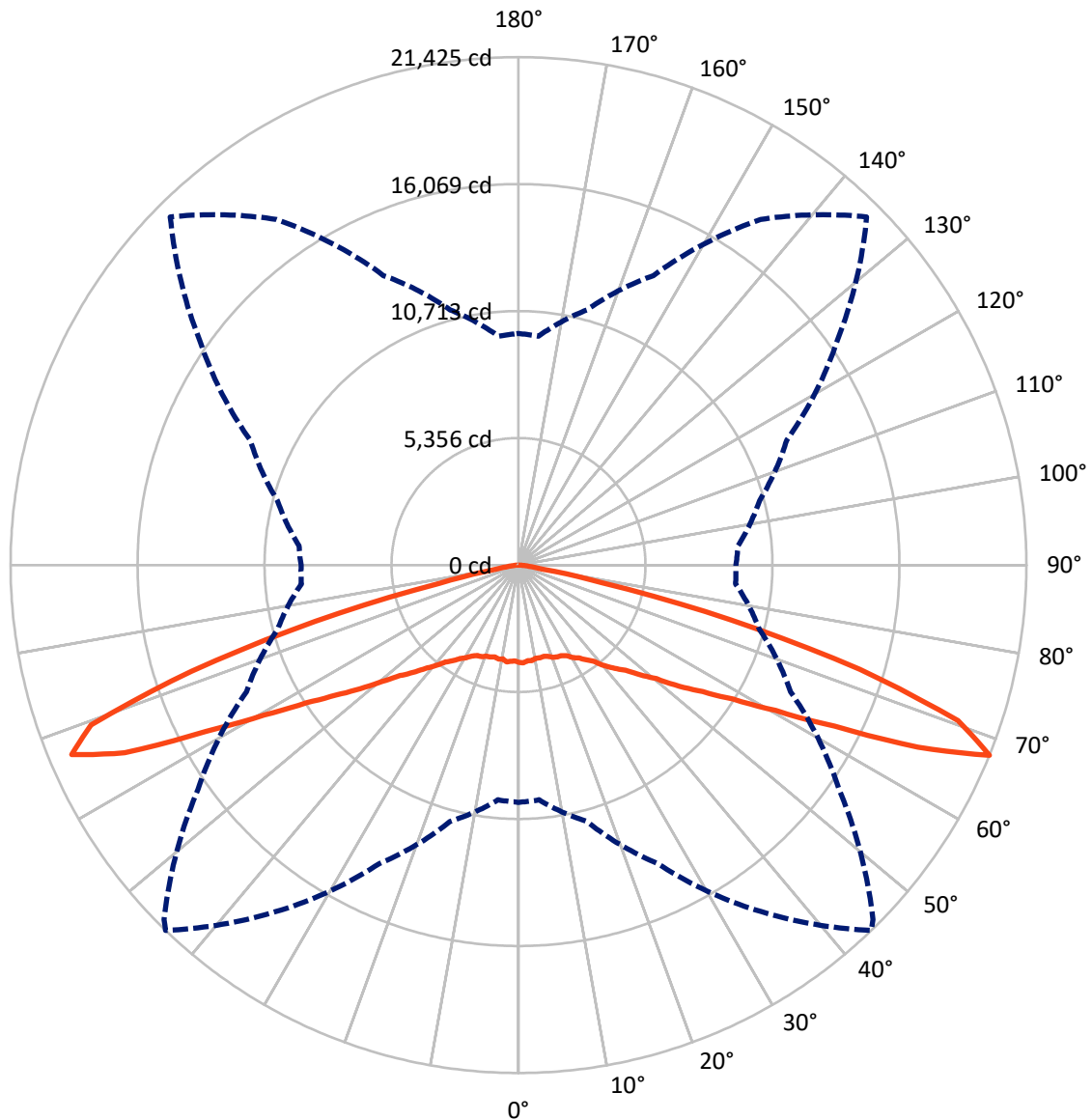
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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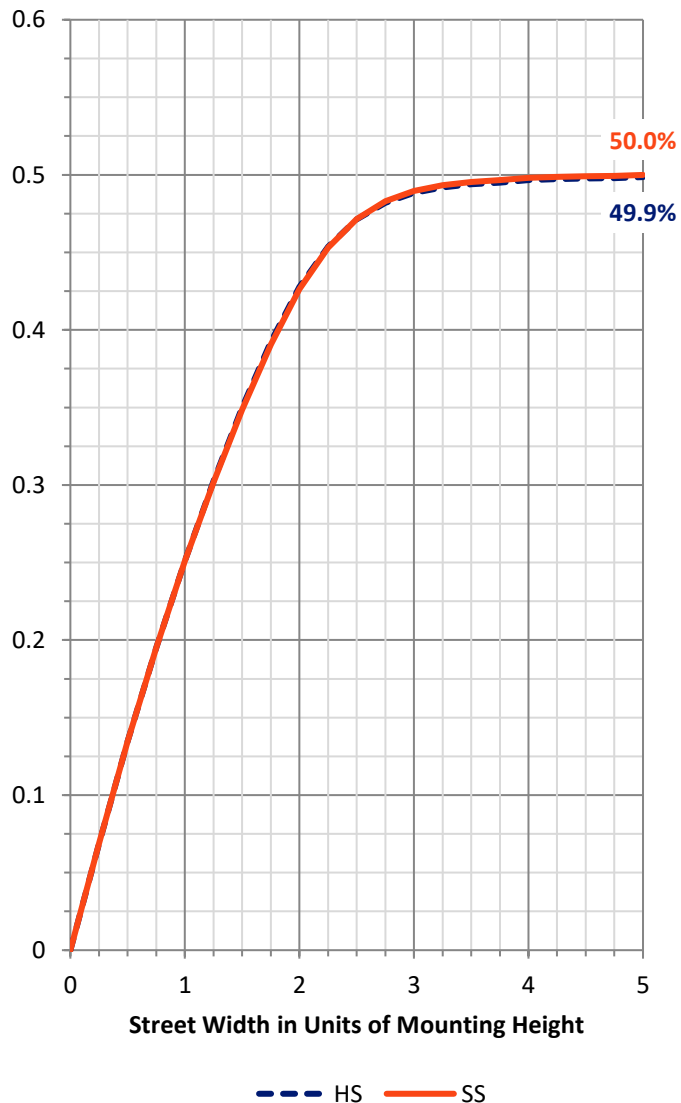
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18786.9	0.0	18786.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18883.4	0.0	18883.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	37670.2	0.0	37670.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.4	1.0
10°-20°	1137.6	3.0
20°-30°	1934.5	5.1
30°-40°	3067.2	8.1
40°-50°	5001.4	13.3
50°-60°	8541.7	22.7
60°-70°	12991.9	34.5
70°-80°	4379.1	11.6
80°-90°	227.4	0.6
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°	37670.2	100.0
0°-180°	37670.2	100.0

Coefficient of Utilization



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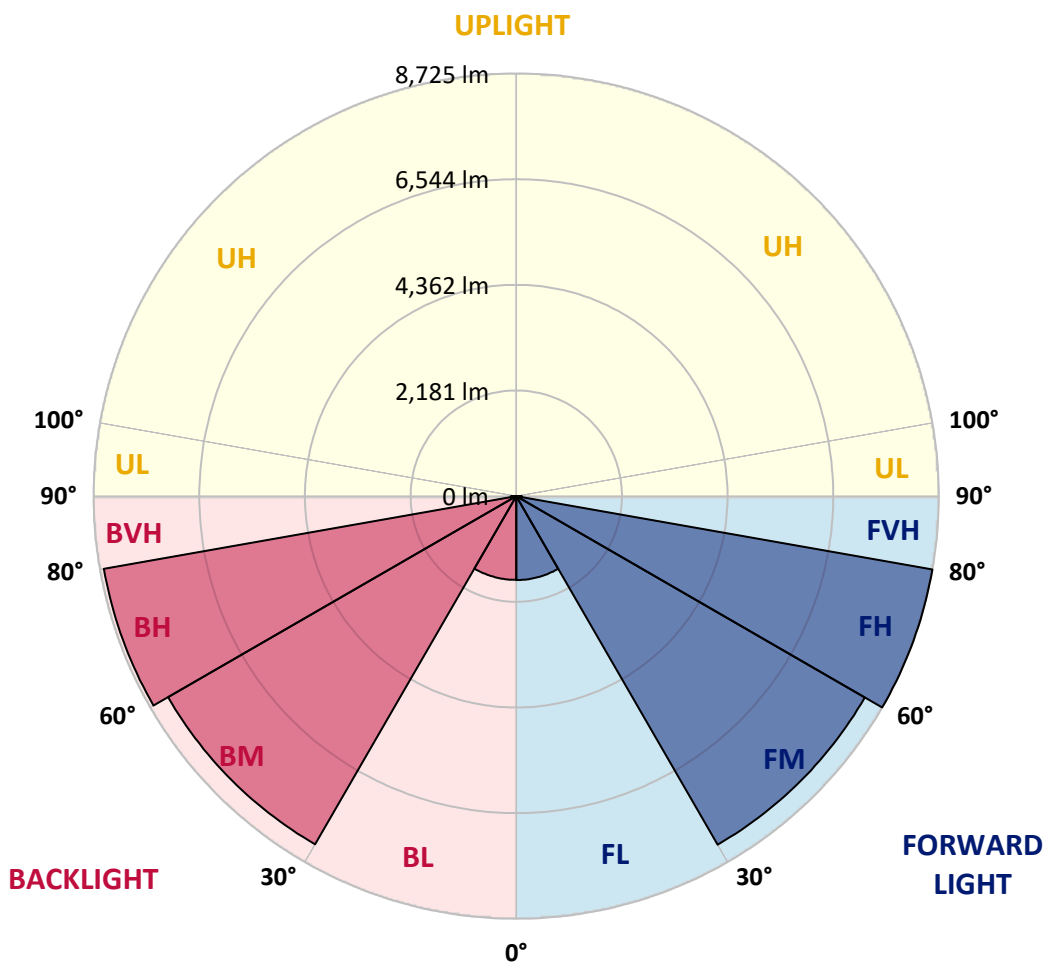
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.5	4.6			
FM (30°-60°)	8309.7	22.1			
FH (60°-80°)	8724.8	23.2			G4/12000
FVH (80°-90°)	116.3	0.3			G2/225
BL (0°-30°)	1729.0	4.6	B3/2500		
BM (30°-60°)	8300.7	22.0	B4/8500		
BH (60°-80°)	8646.2	23.0	B5		G4/12000
BVH (80°-90°)	111.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8
2.5°	4020.2	4067.5	4101.9	4097.6	4110.5	4123.4	4106.2	4132.0	4114.8	4144.9	4162.1
5°	4097.6	4084.7	4089.0	4063.2	4123.4	4054.6	4054.6	4089.0	4132.0	4080.4	4110.5
7.5°	4050.3	4041.7	4020.2	4058.9	4071.8	4071.8	4106.2	4041.7	4114.8	4132.0	4136.3
10°	3998.7	3951.4	4015.9	4054.6	4063.2	3994.4	4024.5	4041.7	4020.2	4041.7	4054.6
12.5°	3955.7	3981.5	3981.5	3981.5	3968.6	4015.9	4046.0	4041.7	3998.7	4037.4	3968.6
15°	3951.4	3938.5	3977.2	4011.6	3990.1	3998.7	4011.6	4050.3	3968.6	3985.8	3985.8
17.5°	3947.1	3964.3	3977.2	3972.9	4046.0	4046.0	4033.1	4007.3	4071.8	4037.4	3990.1
20°	3964.3	3951.4	3985.8	3998.7	4050.3	4153.5	4114.8	4093.3	4058.9	4015.9	4015.9
22.5°	3985.8	3977.2	4024.5	4080.4	4179.3	4205.1	4200.8	4175.0	4114.8	4063.2	4054.6
25°	4063.2	3985.8	4037.4	4144.9	4179.3	4230.9	4265.3	4230.9	4149.2	4162.1	4084.7
27.5°	4179.3	4166.4	4235.2	4308.3	4278.2	4325.5	4295.4	4321.2	4325.5	4261.0	4183.6
30°	4316.9	4278.2	4321.2	4463.1	4476.0	4527.6	4476.0	4407.2	4428.7	4372.8	4334.1
32.5°	4514.7	4501.8	4583.5	4678.1	4695.3	4669.5	4643.7	4682.4	4592.1	4549.1	4480.3
35°	4643.7	4699.6	4798.5	4871.6	4927.5	4901.7	4914.6	4875.9	4897.4	4807.1	4777.0
37.5°	5026.4	5004.9	5026.4	5151.1	5163.9	5151.1	5163.9	5206.9	5176.8	5099.5	5022.1
40°	5387.5	5353.1	5404.7	5546.6	5538.0	5581.0	5495.0	5542.3	5542.3	5396.1	5366.0
42.5°	5658.4	5774.5	5834.7	5950.8	5993.8	5955.1	5937.9	5946.5	6041.1	5869.1	5804.6
45°	6217.4	6213.1	6393.7	6458.2	6337.8	6329.2	6294.8	6398.0	6462.5	6363.6	6337.8
47.5°	6823.6	6853.7	6956.9	6982.7	7055.8	6922.5	6922.5	6935.4	7163.3	6931.1	6810.7
50°	7369.7	7408.4	7614.8	7816.9	7679.3	7537.4	7593.3	7662.1	7786.8	7567.5	7464.3
52.5°	8031.9	8242.5	8380.1	8487.6	8586.5	8487.6	8358.6	8436.0	8681.1	8388.7	8259.7
55°	8986.4	9154.1	9283.1	9480.9	9562.6	9429.3	9416.4	9407.8	9545.4	9235.8	9059.5
57.5°	10052.7	9983.9	10190.3	10495.6	10792.3	10663.3	10624.6	10633.2	10667.6	10229.0	10095.7
60°	11377.0	11454.4	11699.5	11966.1	12280.0	12460.6	12206.9	12060.7	12090.8	11493.1	11286.7
62.5°	12133.8	12305.8	12860.4	13776.3	14408.3	14971.6	15010.3	14060.0	13423.7	12262.8	11385.6
65°	11768.3	11742.5	12787.3	14481.4	16876.4	18514.5	18269.5	15964.8	13741.9	11897.3	10719.2
67.5°	10009.7	9940.9	11205.0	13892.4	17848.1	21425.4	21146.0	16502.3	12666.9	10525.7	9192.8
70°	6449.6	6432.4	7804.0	10590.2	15934.7	19671.2	19774.4	14988.8	10310.7	7709.4	6389.4
72.5°	2343.3	2485.2	3280.7	5692.8	10822.4	15049.0	15113.5	11097.5	5929.3	3564.5	2627.1
75°	864.2	890.0	1036.2	1848.9	4931.8	9240.1	9480.9	5383.2	2106.9	1160.9	945.9
77.5°	498.8	503.1	554.7	688.0	1461.9	3607.5	3753.6	1633.9	816.9	619.2	571.9
80°	339.7	335.4	391.3	447.2	584.8	1023.3	1087.8	683.7	516.0	430.0	361.2
82.5°	197.8	210.7	288.1	318.2	356.9	451.5	460.1	425.7	387.0	318.2	236.5
85°	120.4	98.9	159.1	176.3	206.4	202.1	202.1	232.2	249.4	223.6	133.3
87.5°	30.1	30.1	38.7	43.0	55.9	43.0	47.3	90.3	120.4	111.8	68.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8	4114.8
2.5°	4123.4	4110.5	4119.1	4166.4	4136.3	4046.0	4067.5	4114.8	4076.1	4054.6	4050.3
5°	4106.2	4132.0	4101.9	4110.5	4140.6	4067.5	4080.4	4140.6	4114.8	4123.4	4076.1
7.5°	4110.5	4123.4	4097.6	4058.9	4058.9	4119.1	4084.7	4093.3	4054.6	4119.1	4033.1
10°	4084.7	4050.3	4020.2	4041.7	4033.1	4015.9	4003.0	4028.8	3990.1	4046.0	3985.8
12.5°	4007.3	4015.9	4007.3	3998.7	4015.9	4058.9	3990.1	3998.7	3938.5	3947.1	3977.2
15°	3977.2	4003.0	3994.4	4041.7	4063.2	3998.7	4050.3	3998.7	3951.4	3925.6	3972.9
17.5°	3990.1	4028.8	4015.9	4050.3	4011.6	4058.9	4067.5	4046.0	3990.1	3968.6	3990.1
20°	4003.0	3990.1	4007.3	4067.5	4123.4	4076.1	4076.1	4063.2	4011.6	3981.5	3981.5
22.5°	4033.1	4011.6	4037.4	4084.7	4101.9	4175.0	4110.5	4080.4	3994.4	3917.0	3990.1
25°	4093.3	4106.2	4123.4	4106.2	4200.8	4192.2	4183.6	4162.1	4028.8	4033.1	4020.2
27.5°	4209.4	4136.3	4157.8	4261.0	4273.9	4308.3	4265.3	4304.0	4162.1	4166.4	4080.4
30°	4351.3	4273.9	4342.7	4433.0	4428.7	4493.2	4471.7	4480.3	4381.4	4325.5	4209.4
32.5°	4506.1	4497.5	4540.5	4596.4	4617.9	4652.3	4648.0	4648.0	4587.8	4441.6	4463.1
35°	4678.1	4738.3	4789.9	4850.1	4858.7	4901.7	4841.5	4850.1	4789.9	4682.4	4716.8
37.5°	5017.8	5013.5	5069.4	5142.5	5151.1	5116.7	5163.9	5142.5	5060.8	4987.7	4931.8
40°	5413.3	5327.3	5378.9	5550.9	5563.8	5503.6	5499.3	5495.0	5434.8	5275.7	5241.3
42.5°	5757.3	5869.1	5860.5	5916.4	5877.7	5847.6	5955.1	5894.9	5847.6	5679.9	5649.8
45°	6200.2	6234.6	6346.4	6527.0	6342.1	6342.1	6415.2	6367.9	6342.1	6217.4	6101.3
47.5°	6750.5	6780.6	7004.2	7017.1	6896.7	6815.0	7042.9	7051.5	6944.0	6849.4	6707.5
50°	7395.5	7408.4	7610.5	7816.9	7683.6	7528.8	7761.0	7851.3	7610.5	7481.5	7305.2
52.5°	8104.9	8066.3	8233.9	8620.9	8491.9	8444.6	8694.0	8715.5	8388.7	8186.6	8233.9
55°	8921.9	8870.3	9326.1	9588.3	9506.7	9420.7	9532.5	9584.0	9321.8	8990.7	9106.8
57.5°	9979.6	10005.4	10233.3	10491.3	10624.6	10646.1	10697.7	10646.1	10379.5	10044.1	9936.6
60°	11037.4	11114.7	11557.6	12043.5	12086.5	12464.9	12396.1	12138.1	11759.7	11282.4	11303.9
62.5°	11428.6	11364.1	12077.9	13264.6	14275.0	14967.3	14662.0	13746.2	12869.0	12000.5	12065.0
65°	10641.8	10800.9	11772.6	13630.1	15822.9	18561.8	16936.6	14404.0	12632.5	11510.3	11385.6
67.5°	9171.3	9291.7	10525.7	12486.4	16377.6	20771.9	17796.5	13475.3	11140.5	9687.2	9764.6
70°	6389.4	6449.6	7657.8	10229.0	14851.2	19602.4	16055.1	10349.4	7692.2	6131.4	6217.4
72.5°	2571.2	2717.4	3512.9	6161.5	10964.3	14894.2	10809.5	5430.5	3190.4	2373.4	2154.2
75°	950.2	954.5	1122.2	2119.8	5206.9	9360.5	4875.9	1745.7	1019.0	834.1	795.4
77.5°	550.4	546.1	584.8	765.3	1509.2	3654.8	1384.5	683.7	554.7	498.8	477.3
80°	344.0	339.7	399.9	507.4	662.2	1001.8	584.8	425.7	374.1	322.5	322.5
82.5°	219.3	223.6	313.9	374.1	404.2	442.9	339.7	301.0	279.5	184.9	180.6
85°	141.9	129.0	219.3	249.4	223.6	197.8	189.2	159.1	146.2	90.3	98.9
87.5°	64.5	68.8	111.8	124.7	81.7	47.3	47.3	34.4	34.4	21.5	21.5
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)