

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: P481152

Luminaire Tested: **IFLD-L-SA8C-722-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481152  
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-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

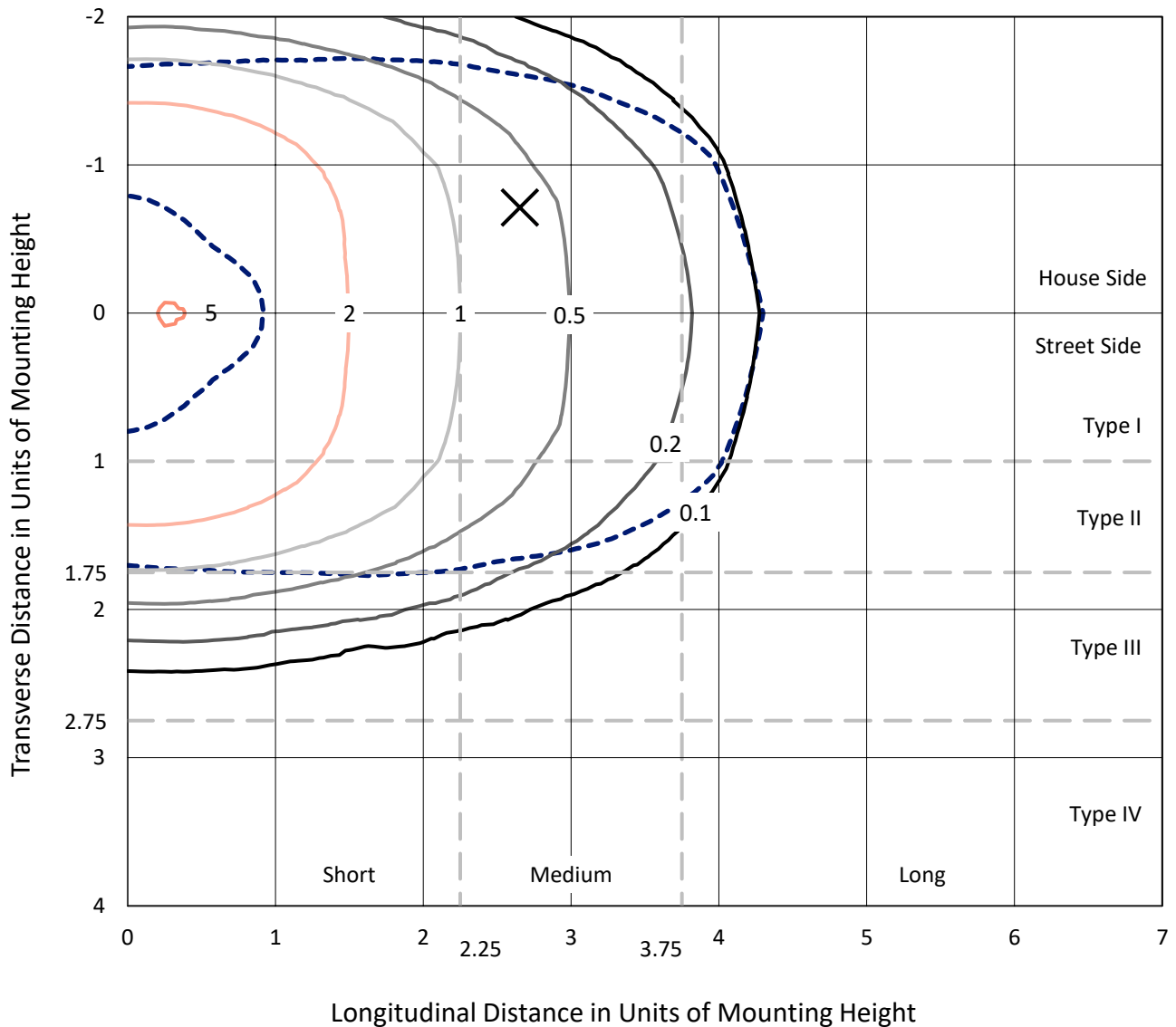
Lumens per Lamp: N/A  
Luminaire Lumens: 38439.7 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

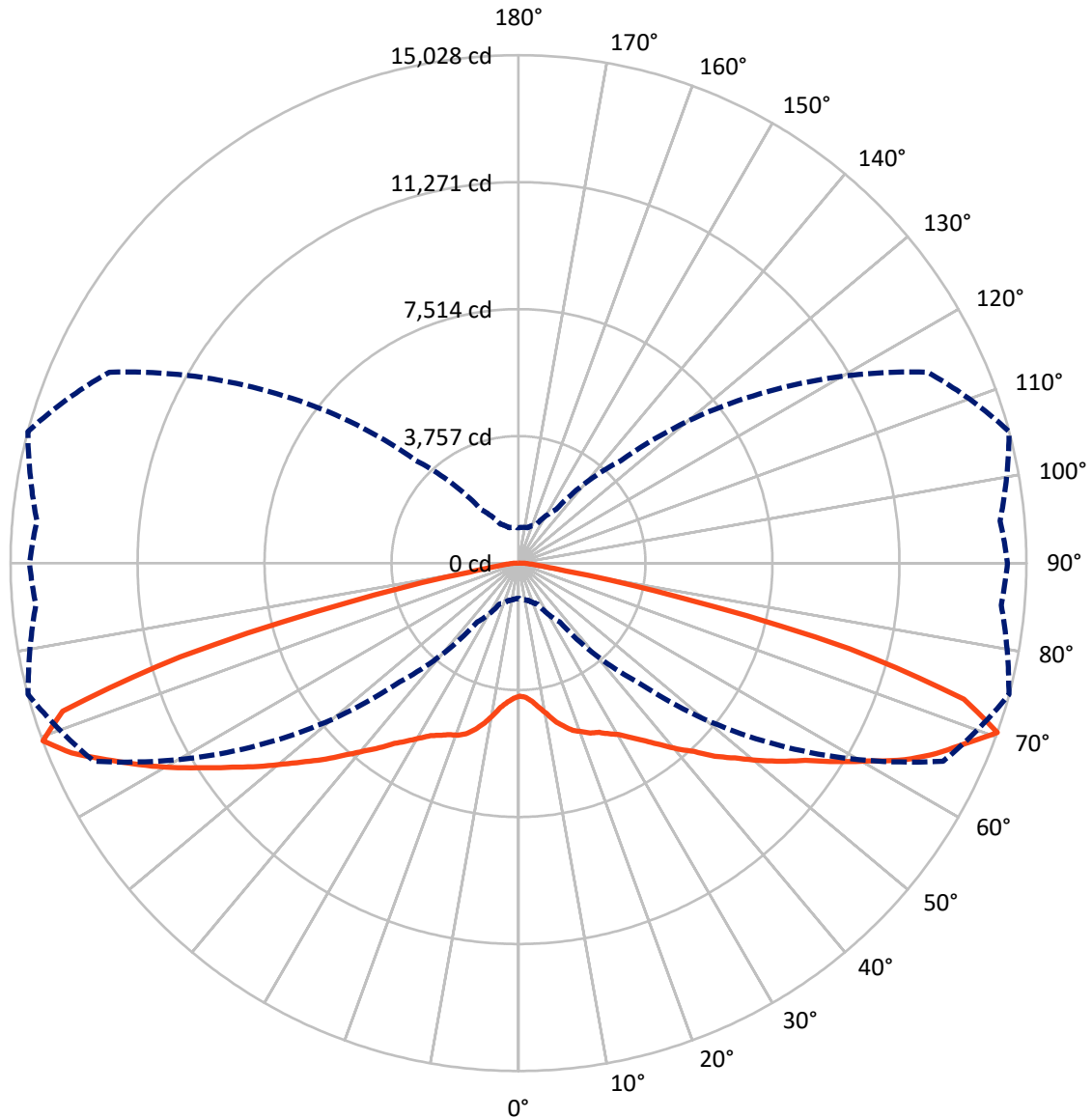
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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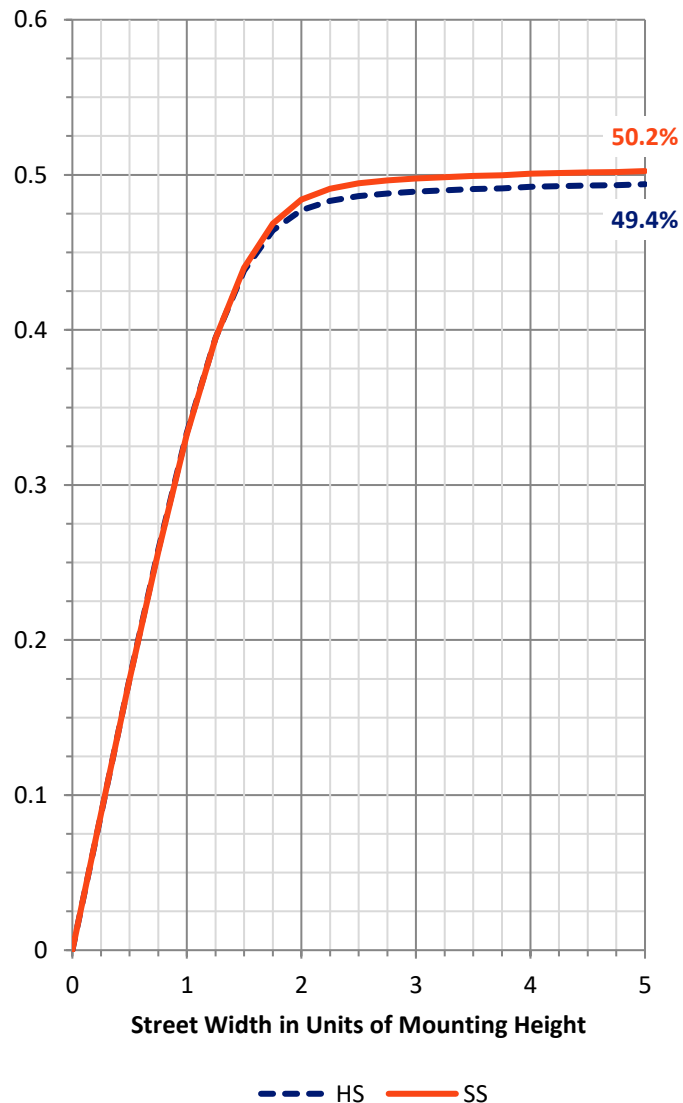
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19083.1	0.0	19083.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	19356.6	0.0	19356.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	38439.7	0.0	38439.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.8	1.0
10°-20°	1334.0	3.5
20°-30°	2583.0	6.7
30°-40°	4369.0	11.4
40°-50°	6969.9	18.1
50°-60°	9540.2	24.8
60°-70°	8992.3	23.4
70°-80°	3961.4	10.3
80°-90°	298.1	0.8
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°	38439.7	100.0
0°-180°	38439.7	100.0

**Coefficient of Utilization**

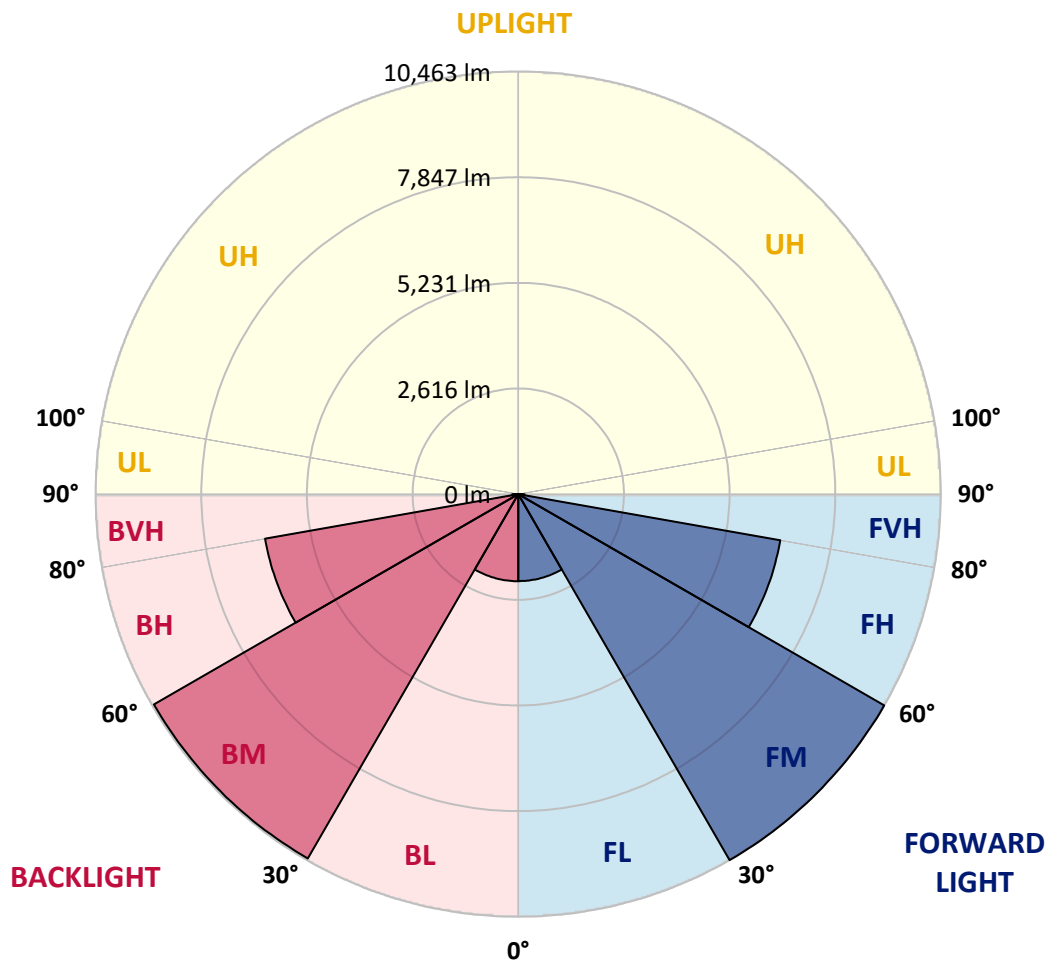


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2153.2	5.6			
FM (30°-60°)	10462.9	27.2			
FH (60°-80°)	6588.1	17.1			G3/7500
FVH (80°-90°)	152.3	0.4			G2/225
BL (0°-30°)	2155.6	5.6	B3/2500		
BM (30°-60°)	10416.2	27.1	B5		
BH (60°-80°)	6365.5	16.6	B5		G5
BVH (80°-90°)	145.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2
2.5°	3911.3	3911.3	3907.2	3927.9	3948.6	3956.9	3973.5	3977.6	4002.5	3981.8	4023.2
5°	3898.9	3894.8	3927.9	3977.6	3977.6	4031.5	4064.6	4110.2	4122.6	4147.5	4155.8
7.5°	3985.9	3977.6	3961.0	4014.9	4060.5	4143.4	4188.9	4267.7	4296.7	4329.8	4367.1
10°	4039.8	4039.8	4023.2	4118.5	4159.9	4271.8	4371.2	4450.0	4561.8	4599.1	4603.3
12.5°	4048.1	4060.5	4110.2	4234.5	4350.5	4495.5	4570.1	4719.3	4831.1	4901.6	4926.4
15°	4172.4	4147.5	4201.4	4371.2	4541.1	4669.6	4802.1	4909.9	5071.5	5162.6	5220.6
17.5°	4284.2	4259.4	4358.8	4561.8	4735.9	4934.7	5050.7	5166.8	5282.8	5365.6	5369.8
20°	4462.4	4483.1	4570.1	4789.7	5017.6	5191.6	5324.2	5344.9	5402.9	5523.1	5502.4
22.5°	4682.0	4665.4	4847.7	5088.0	5336.6	5481.7	5556.2	5502.4	5473.4	5601.8	5630.8
25°	4901.6	4951.3	5117.0	5340.8	5639.1	5833.8	5854.6	5705.4	5597.7	5643.2	5630.8
27.5°	5237.2	5245.5	5419.5	5684.7	5987.1	6157.0	6144.6	5933.3	5726.1	5730.3	5738.5
30°	5668.1	5626.7	5817.3	6057.6	6355.9	6509.2	6529.9	6227.5	5949.9	5867.0	5887.7
32.5°	6082.4	6132.2	6297.9	6571.4	6791.0	6878.0	6832.4	6563.1	6202.6	6090.7	6103.2
35°	6612.8	6604.5	6832.4	7064.4	7230.2	7246.7	7209.4	6815.8	6476.1	6331.0	6273.0
37.5°	7180.4	7255.0	7404.2	7594.8	7768.8	7777.1	7574.0	7259.2	6840.7	6600.4	6670.8
40°	7814.4	7897.2	8005.0	8282.6	8411.0	8278.4	8071.3	7644.5	7209.4	6998.1	7031.3
42.5°	8373.7	8411.0	8630.6	8957.9	9020.1	8962.1	8655.5	8137.5	7632.1	7400.0	7416.6
45°	8887.5	8937.2	9223.1	9517.3	9662.3	9562.9	9206.5	8713.5	8125.1	7926.2	7847.5
47.5°	9359.8	9459.3	9736.9	10039.3	10263.1	10271.4	9832.2	9235.5	8614.0	8353.0	8348.9
50°	9678.9	9823.9	10097.4	10441.2	10768.6	10897.0	10457.8	9815.6	9148.5	8870.9	8841.9
52.5°	9852.9	10002.1	10275.5	10810.0	11174.6	11373.5	11166.3	10358.4	9774.2	9484.1	9438.6
55°	9641.6	9741.0	10188.5	10938.5	11501.9	11829.3	11692.5	11108.3	10395.7	10159.5	10200.9
57.5°	8742.5	8949.6	9500.7	10437.1	11493.7	12297.5	12285.0	11816.8	11112.5	10888.7	10897.0
60°	7197.0	7371.0	8050.5	9359.8	11029.6	12488.1	12927.3	12504.6	11916.3	11655.3	11647.0
62.5°	5079.8	5299.3	6086.6	7516.0	9662.3	12222.9	13664.8	13370.6	12703.5	12512.9	12583.4
65°	2842.3	2974.9	3704.2	4996.9	7362.7	10764.4	13797.4	14269.7	13503.2	13213.2	13225.6
67.5°	1520.6	1570.3	1910.1	2622.7	4503.8	8299.1	12459.1	14787.6	14369.1	13867.8	13789.1
70°	1044.1	1060.7	1147.7	1342.4	2129.7	4963.7	9397.1	13863.7	15019.7	14336.0	14468.6
72.5°	882.5	874.2	895.0	915.7	1114.6	2220.8	5514.8	10669.1	14178.6	13921.7	13871.9
75°	766.5	762.4	770.7	749.9	774.8	977.8	2440.4	6650.1	10379.1	11584.8	11771.3
77.5°	633.9	638.1	642.2	621.5	613.2	646.4	982.0	2921.1	5108.8	5639.1	6082.4
80°	480.6	488.9	522.1	501.3	468.2	472.3	580.1	977.8	1466.7	1330.0	1371.4
82.5°	327.3	331.5	401.9	377.0	352.2	319.0	372.9	505.5	571.8	435.1	381.2
85°	232.0	227.9	261.0	240.3	223.7	161.6	223.7	285.9	343.9	215.5	194.7
87.5°	53.9	53.9	107.7	87.0	82.9	66.3	87.0	111.9	149.2	95.3	87.0
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°	145°	155°	165°	175°	180°
0°	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2	3936.2
2.5°	4010.8	3973.5	3973.5	3965.2	3932.0	3923.8	3894.8	3903.0	3882.3	3861.6
5°	4151.6	4101.9	4101.9	4031.5	3965.2	3956.9	3923.8	3923.8	3890.6	3898.9
7.5°	4346.4	4300.8	4226.2	4164.1	4072.9	4035.6	3973.5	3965.2	3956.9	3940.3
10°	4578.4	4520.4	4445.8	4317.4	4242.8	4172.4	4110.2	4023.2	4002.5	4006.6
12.5°	4893.3	4802.1	4640.6	4528.7	4433.4	4342.2	4251.1	4122.6	4093.6	4106.1
15°	5117.0	5001.0	4839.4	4798.0	4669.6	4557.7	4408.5	4263.5	4213.8	4201.4
17.5°	5299.3	5204.1	5108.8	5046.6	4943.0	4806.3	4599.1	4433.4	4321.5	4309.1
20°	5448.5	5324.2	5303.5	5340.8	5212.3	5121.2	4868.4	4665.4	4516.3	4454.1
22.5°	5539.7	5460.9	5518.9	5552.1	5543.8	5390.5	5129.5	4893.3	4706.8	4648.8
25°	5639.1	5547.9	5755.1	5867.0	5896.0	5643.2	5440.2	5129.5	4947.2	4909.9
27.5°	5688.8	5722.0	5962.3	6198.5	6177.7	5983.0	5709.5	5431.9	5286.9	5220.6
30°	5833.8	5887.7	6252.3	6517.5	6521.6	6331.0	6123.9	5809.0	5647.4	5618.4
32.5°	6094.9	6161.2	6550.6	6832.4	6882.1	6737.1	6529.9	6335.2	6169.5	6103.2
35°	6293.8	6463.6	6902.8	7159.7	7292.3	7205.3	7089.3	6886.3	6712.2	6654.2
37.5°	6579.6	6815.8	7238.4	7586.5	7735.6	7727.4	7640.3	7420.7	7275.7	7226.0
40°	6989.8	7226.0	7611.3	8071.3	8348.9	8336.4	8286.7	8116.8	7901.4	7876.5
42.5°	7424.9	7619.6	8121.0	8647.2	9044.9	9003.5	8870.9	8672.0	8522.9	8489.7
45°	7847.5	8150.0	8614.0	9289.4	9587.7	9691.3	9533.9	9194.1	9024.2	9003.5
47.5°	8377.9	8618.2	9198.2	9803.2	10246.5	10263.1	9993.8	9678.9	9368.1	9434.4
50°	8850.2	9169.2	9757.6	10420.5	10950.9	10760.3	10416.4	10022.8	9799.0	9712.0
52.5°	9355.7	9745.2	10428.8	11104.2	11398.4	11207.8	10648.4	10209.2	9869.5	9832.2
55°	10093.2	10296.2	11191.2	11709.1	11804.4	11402.5	10578.0	9956.5	9517.3	9409.6
57.5°	10843.2	11079.3	11862.4	12309.9	12210.5	11294.8	10122.2	9161.0	8585.0	8431.7
60°	11601.4	11891.4	12550.2	12960.4	12446.6	10553.1	8833.6	7594.8	6923.5	6786.8
62.5°	12446.6	12823.7	13412.0	13557.0	11746.4	9086.4	7010.6	5481.7	4802.1	4574.3
65°	13196.6	13581.9	14307.0	13432.7	10258.9	6778.5	4532.8	3132.4	2631.0	2448.7
67.5°	13813.9	14249.0	14605.3	11887.3	7511.9	3969.3	2361.7	1649.1	1462.6	1396.3
70°	14302.9	15027.9	13362.3	8738.3	4292.5	1934.9	1276.2	1085.6	1060.7	1044.1
72.5°	13876.1	13780.8	9977.2	5042.5	1881.1	1064.8	924.0	895.0	890.8	895.0
75°	11348.6	10122.2	5966.4	2191.8	944.7	770.7	766.5	754.1	774.8	774.8
77.5°	5506.5	4814.6	2494.3	940.5	621.5	604.9	625.6	625.6	625.6	625.6
80°	1276.2	1412.9	890.8	571.8	451.6	451.6	497.2	501.3	480.6	472.3
82.5°	435.1	580.1	488.9	360.5	298.3	335.6	377.0	385.3	319.0	323.2
85°	215.5	339.8	265.2	207.2	153.3	207.2	244.5	256.9	219.6	211.3
87.5°	99.4	149.2	99.4	70.4	53.9	74.6	70.4	58.0	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)