

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: P481341

Luminaire Tested: **IFLD-L-SA7B-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481341
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

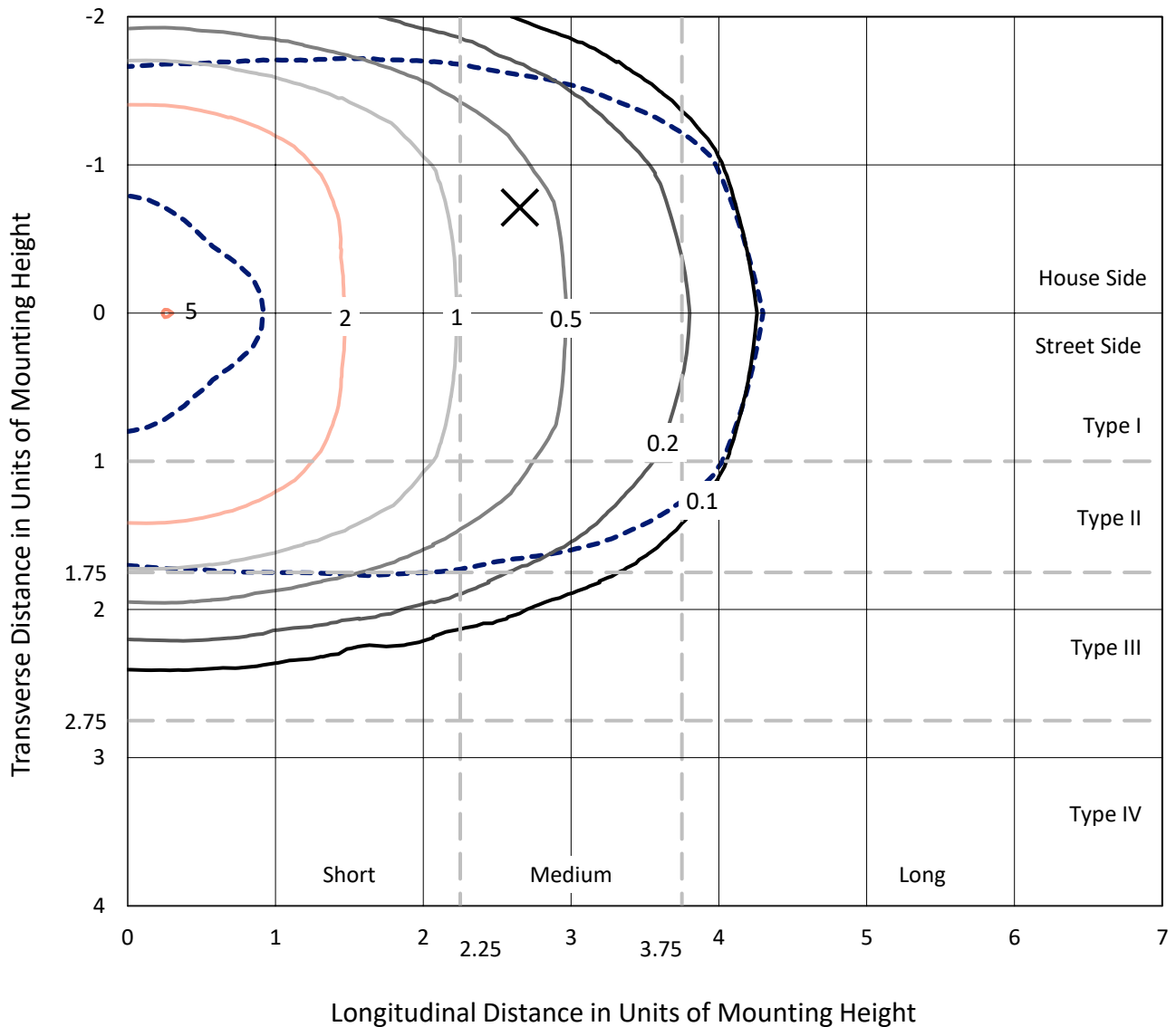
Lumens per Lamp: N/A
Luminaire Lumens: 37521.4 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 281
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

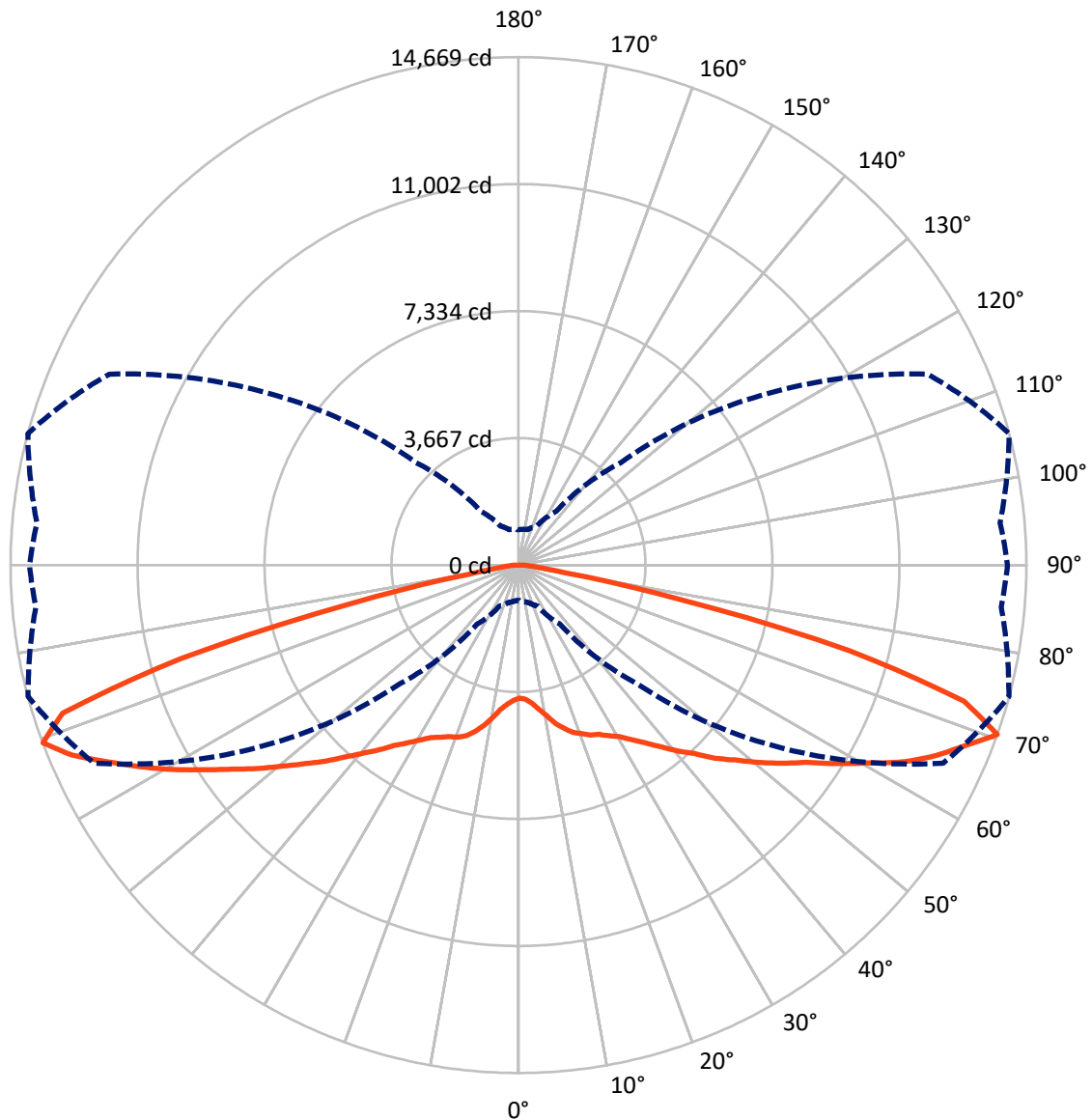
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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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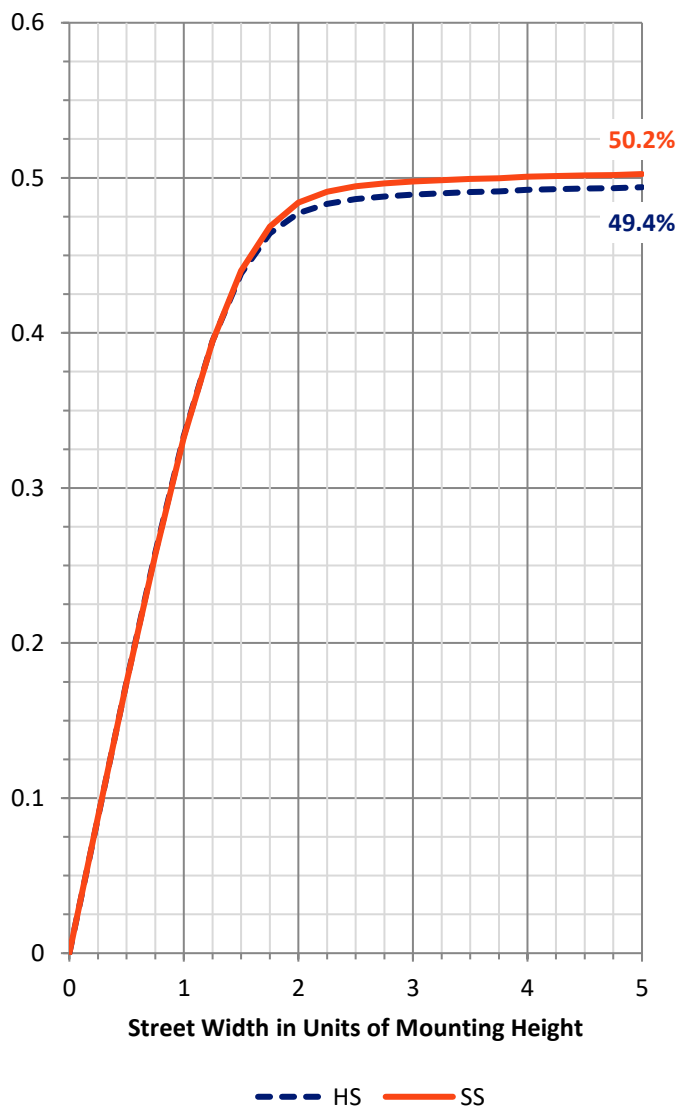
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18627.2	0.0	18627.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18894.2	0.0	18894.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	37521.4	0.0	37521.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.0
10°-20°	1302.1	3.5
20°-30°	2521.3	6.7
30°-40°	4264.6	11.4
40°-50°	6803.4	18.1
50°-60°	9312.3	24.8
60°-70°	8777.5	23.4
70°-80°	3866.8	10.3
80°-90°	290.9	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°	37521.4	100.0
0°-180°	37521.4	100.0

Coefficient of Utilization

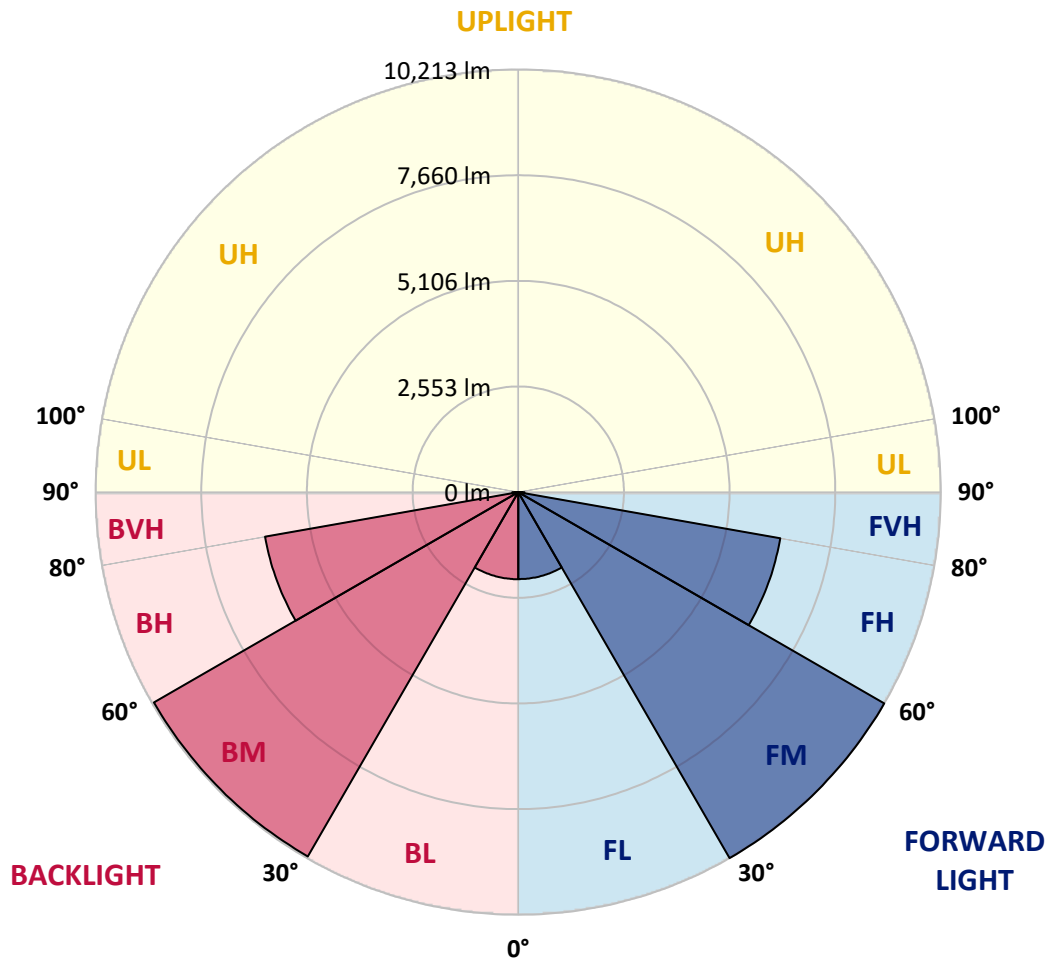


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.8	5.6			
FM (30°-60°)	10213.0	27.2			
FH (60°-80°)	6430.8	17.1			G3/7500
FVH (80°-90°)	148.6	0.4			G2/225
BL (0°-30°)	2104.1	5.6	B3/2500		
BM (30°-60°)	10167.4	27.1	B5		
BH (60°-80°)	6213.5	16.6	B5		G5
BVH (80°-90°)	142.3	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°	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2
2.5°	3817.9	3817.9	3813.8	3834.1	3854.3	3862.4	3878.6	3882.6	3906.9	3886.6	3927.1
5°	3805.8	3801.7	3834.1	3882.6	3882.6	3935.2	3967.5	4012.0	4024.2	4048.4	4056.5
7.5°	3890.7	3882.6	3866.4	3919.0	3963.5	4044.4	4088.9	4165.7	4194.0	4226.4	4262.8
10°	3943.3	3943.3	3927.1	4020.1	4060.6	4169.8	4266.8	4343.7	4452.9	4489.3	4493.3
12.5°	3951.4	3963.5	4012.0	4133.4	4246.6	4388.1	4460.9	4606.5	4715.7	4784.5	4808.8
15°	4072.7	4048.4	4101.0	4266.8	4432.6	4558.0	4687.4	4792.6	4950.3	5039.3	5095.9
17.5°	4181.9	4157.6	4254.7	4452.9	4622.7	4816.9	4930.1	5043.3	5156.6	5237.5	5241.5
20°	4355.8	4376.0	4460.9	4675.3	4897.7	5067.6	5197.0	5217.2	5273.9	5391.2	5370.9
22.5°	4570.1	4554.0	4731.9	4966.5	5209.2	5350.7	5423.5	5370.9	5342.6	5468.0	5496.3
25°	4784.5	4833.0	4994.8	5213.2	5504.4	5694.5	5714.7	5569.1	5464.0	5508.4	5496.3
27.5°	5112.1	5120.2	5290.0	5548.9	5844.1	6009.9	5997.8	5791.5	5589.3	5593.4	5601.5
30°	5532.7	5492.3	5678.3	5912.9	6204.1	6353.7	6373.9	6078.7	5807.7	5726.8	5747.1
32.5°	5937.1	5985.7	6147.5	6414.4	6628.7	6713.7	6669.2	6406.3	6054.4	5945.2	5957.4
35°	6454.8	6446.7	6669.2	6895.7	7057.4	7073.6	7037.2	6653.0	6321.4	6179.8	6123.2
37.5°	7008.9	7081.7	7227.3	7413.3	7583.2	7591.3	7393.1	7085.7	6677.3	6442.7	6511.4
40°	7627.7	7708.6	7813.7	8084.7	8210.1	8080.7	7878.4	7461.9	7037.2	6830.9	6863.3
42.5°	8173.7	8210.1	8424.4	8743.9	8804.6	8748.0	8448.7	7943.2	7449.7	7223.3	7239.4
45°	8675.2	8723.7	9002.8	9289.9	9431.5	9334.4	8986.6	8505.3	7931.0	7736.9	7660.0
47.5°	9136.2	9233.3	9504.3	9799.5	10017.9	10026.0	9597.3	9014.9	8408.3	8153.5	8149.4
50°	9447.7	9589.2	9856.1	10191.8	10511.3	10636.7	10208.0	9581.1	8930.0	8659.0	8630.7
52.5°	9617.5	9763.1	10030.1	10551.8	10907.7	11101.8	10899.6	10110.9	9540.7	9257.6	9213.1
55°	9411.3	9508.3	9945.1	10677.2	11227.2	11546.7	11413.2	10843.0	10147.3	9916.8	9957.3
57.5°	8533.6	8735.9	9273.8	10187.8	11219.1	12003.7	11991.6	11534.6	10847.0	10628.6	10636.7
60°	7025.1	7194.9	7858.2	9136.2	10766.1	12189.7	12618.5	12205.9	11631.6	11376.8	11368.7
62.5°	4958.4	5172.8	5941.2	7336.5	9431.5	11930.9	13338.3	13051.2	12400.1	12214.0	12282.8
65°	2774.4	2903.9	3615.7	4877.5	7186.9	10507.3	13467.8	13928.8	13180.6	12897.5	12909.6
67.5°	1484.3	1532.8	1864.5	2560.1	4396.2	8100.9	12161.4	14434.4	14025.9	13536.5	13459.7
70°	1019.2	1035.4	1120.3	1310.4	2078.8	4845.2	9172.6	13532.5	14660.9	13993.5	14123.0
72.5°	861.5	853.4	873.6	893.8	1087.9	2167.8	5383.1	10414.3	13839.9	13589.1	13540.6
75°	748.2	744.2	752.3	732.0	756.3	954.5	2382.1	6491.2	10131.2	11308.1	11490.1
77.5°	618.8	622.8	626.9	606.7	598.6	630.9	958.5	2851.3	4986.7	5504.4	5937.1
80°	469.1	477.2	509.6	489.4	457.0	461.1	566.2	954.5	1431.7	1298.2	1338.7
82.5°	319.5	323.6	392.3	368.0	343.8	311.4	364.0	493.4	558.1	424.7	372.1
85°	226.5	222.4	254.8	234.6	218.4	157.7	218.4	279.1	335.7	210.3	190.1
87.5°	52.6	52.6	105.2	84.9	80.9	64.7	84.9	109.2	145.6	93.0	84.9
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°	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2	3842.2
2.5°	3915.0	3878.6	3878.6	3870.5	3838.1	3830.0	3801.7	3809.8	3789.6	3769.4
5°	4052.5	4003.9	4003.9	3935.2	3870.5	3862.4	3830.0	3830.0	3797.7	3805.8
7.5°	4242.5	4198.1	4125.3	4064.6	3975.6	3939.2	3878.6	3870.5	3862.4	3846.2
10°	4469.0	4412.4	4339.6	4214.2	4141.4	4072.7	4012.0	3927.1	3906.9	3910.9
12.5°	4776.4	4687.4	4529.7	4420.5	4327.5	4238.5	4149.5	4024.2	3995.8	4008.0
15°	4994.8	4881.6	4723.8	4683.4	4558.0	4448.8	4303.2	4161.7	4113.1	4101.0
17.5°	5172.8	5079.7	4986.7	4926.0	4824.9	4691.5	4489.3	4327.5	4218.3	4206.2
20°	5318.4	5197.0	5176.8	5213.2	5087.8	4998.8	4752.1	4554.0	4408.4	4347.7
22.5°	5407.3	5330.5	5387.1	5419.5	5411.4	5261.7	5006.9	4776.4	4594.4	4537.8
25°	5504.4	5415.4	5617.6	5726.8	5755.1	5508.4	5310.3	5006.9	4829.0	4792.6
27.5°	5552.9	5585.3	5819.9	6050.4	6030.2	5840.1	5573.1	5302.2	5160.6	5095.9
30°	5694.5	5747.1	6103.0	6361.8	6365.8	6179.8	5977.6	5670.2	5512.5	5484.2
32.5°	5949.3	6014.0	6394.2	6669.2	6717.7	6576.2	6373.9	6183.8	6022.1	5957.4
35°	6143.4	6309.2	6737.9	6988.7	7118.1	7033.2	6919.9	6721.8	6551.9	6495.3
37.5°	6422.5	6653.0	7065.5	7405.3	7550.8	7542.8	7457.8	7243.5	7101.9	7053.4
40°	6822.9	7053.4	7429.5	7878.4	8149.4	8137.3	8088.8	7922.9	7712.6	7688.4
42.5°	7247.5	7437.6	7927.0	8440.6	8828.9	8788.4	8659.0	8464.9	8319.3	8286.9
45°	7660.0	7955.3	8408.3	9067.5	9358.7	9459.8	9306.1	8974.5	8808.6	8788.4
47.5°	8177.7	8412.3	8978.5	9569.0	10001.7	10017.9	9755.0	9447.7	9144.3	9209.0
50°	8638.8	8950.2	9524.5	10171.6	10689.3	10503.2	10167.6	9783.3	9564.9	9480.0
52.5°	9132.2	9512.4	10179.7	10838.9	11126.1	10940.0	10394.0	9965.3	9633.7	9597.3
55°	9852.1	10050.3	10923.9	11429.4	11522.4	11130.1	10325.3	9718.6	9289.9	9184.8
57.5°	10584.1	10814.7	11579.0	12015.8	11918.8	11025.0	9880.4	8942.1	8379.9	8230.3
60°	11324.3	11607.4	12250.4	12650.8	12149.3	10301.0	8622.6	7413.3	6758.2	6624.7
62.5°	12149.3	12517.3	13091.6	13233.2	11465.8	8869.3	6843.1	5350.7	4687.4	4465.0
65°	12881.3	13257.5	13965.2	13111.9	10013.9	6616.6	4424.5	3057.5	2568.2	2390.2
67.5°	13483.9	13908.6	14256.4	11603.3	7332.5	3874.5	2305.3	1609.7	1427.7	1363.0
70°	13961.2	14668.9	13043.1	8529.6	4190.0	1888.7	1245.7	1059.6	1035.4	1019.2
72.5°	13544.6	13451.6	9738.9	4922.0	1836.1	1039.4	901.9	873.6	869.5	873.6
75°	11077.5	9880.4	5823.9	2139.5	922.1	752.3	748.2	736.1	756.3	756.3
77.5°	5375.0	4699.6	2434.7	918.1	606.7	590.5	610.7	610.7	610.7	610.7
80°	1245.7	1379.1	869.5	558.1	440.8	440.8	485.3	489.4	469.1	461.1
82.5°	424.7	566.2	477.2	351.9	291.2	327.6	368.0	376.1	311.4	315.5
85°	210.3	331.6	258.8	202.2	149.6	202.2	238.6	250.8	214.4	206.3
87.5°	97.1	145.6	97.1	68.8	52.6	72.8	68.8	56.6	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)