

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: P481345

Luminaire Tested: **IFLD-L-SA8A-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481345
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

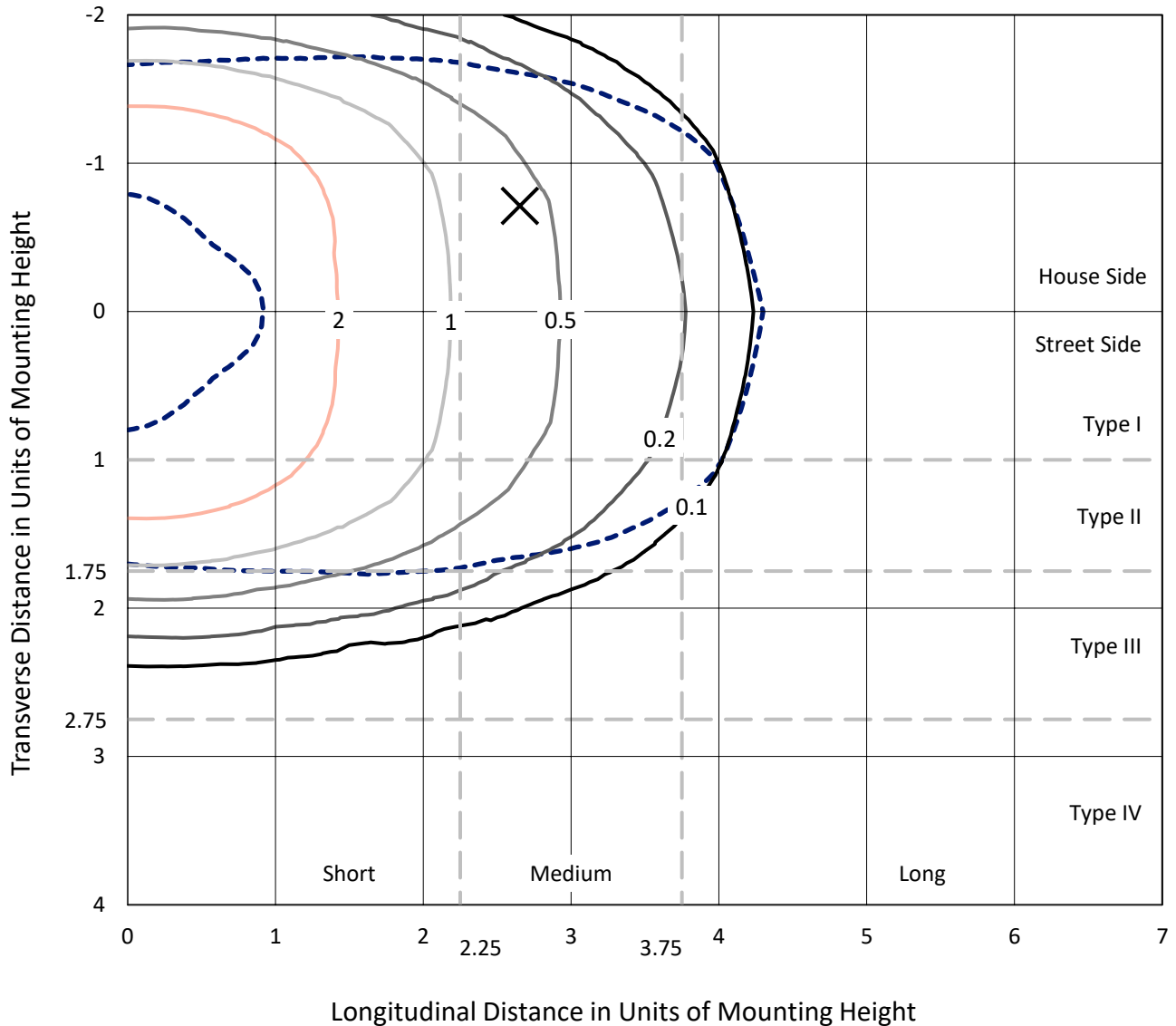
Lumens per Lamp: N/A
Luminaire Lumens: 36092.9 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

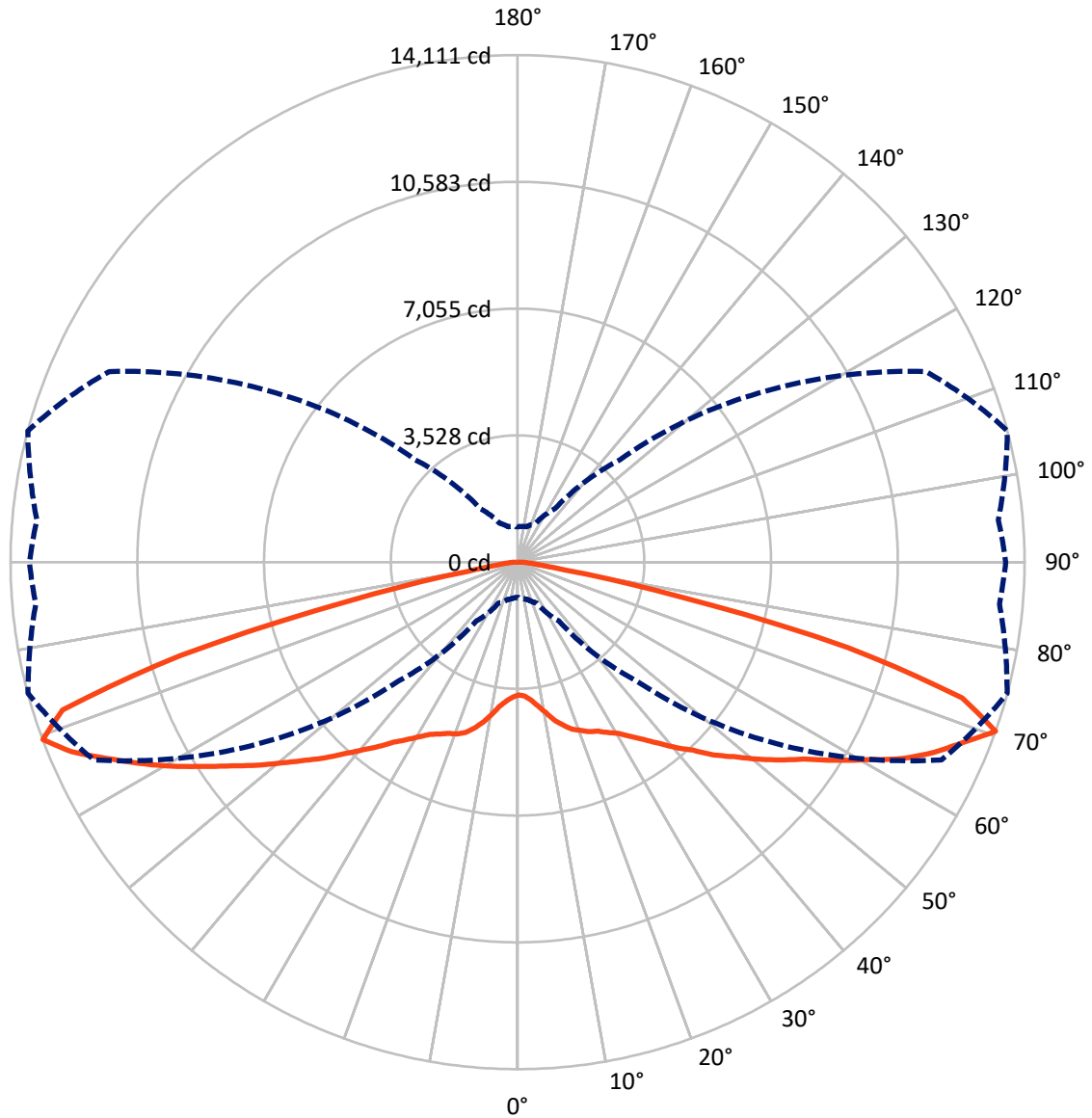
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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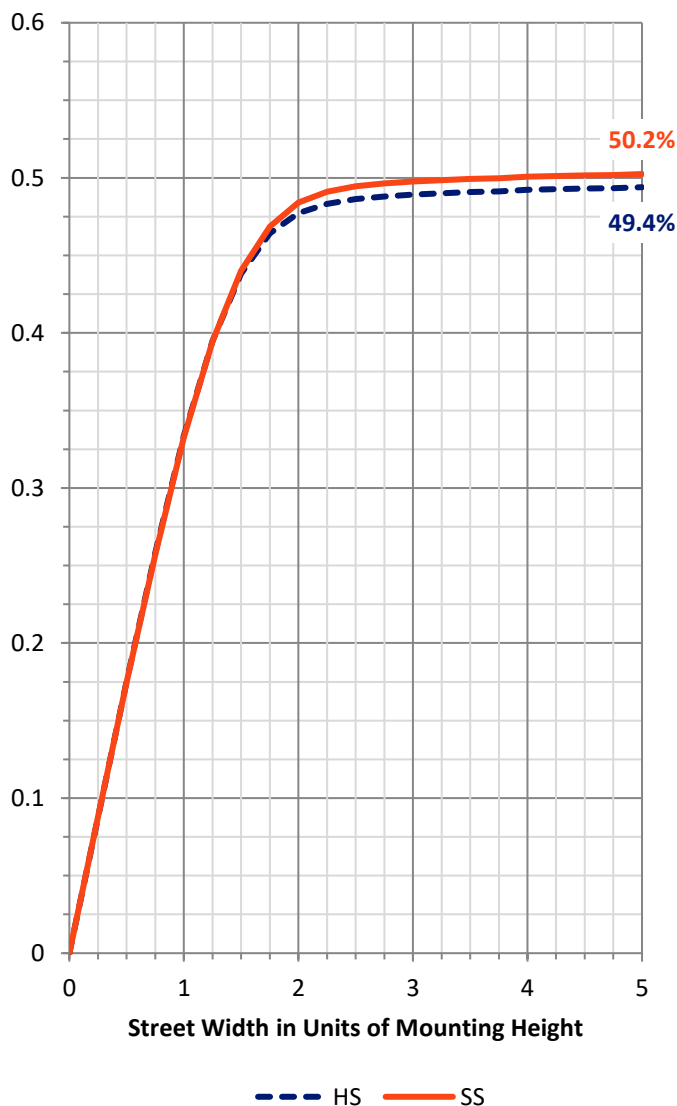
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17918.0	0.0	17918.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18174.8	0.0	18174.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	36092.9	0.0	36092.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.9	1.0
10°-20°	1252.5	3.5
20°-30°	2425.3	6.7
30°-40°	4102.3	11.4
40°-50°	6544.3	18.1
50°-60°	8957.8	24.8
60°-70°	8443.3	23.4
70°-80°	3719.5	10.3
80°-90°	279.9	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°	36092.9	100.0
0°-180°	36092.9	100.0

Coefficient of Utilization

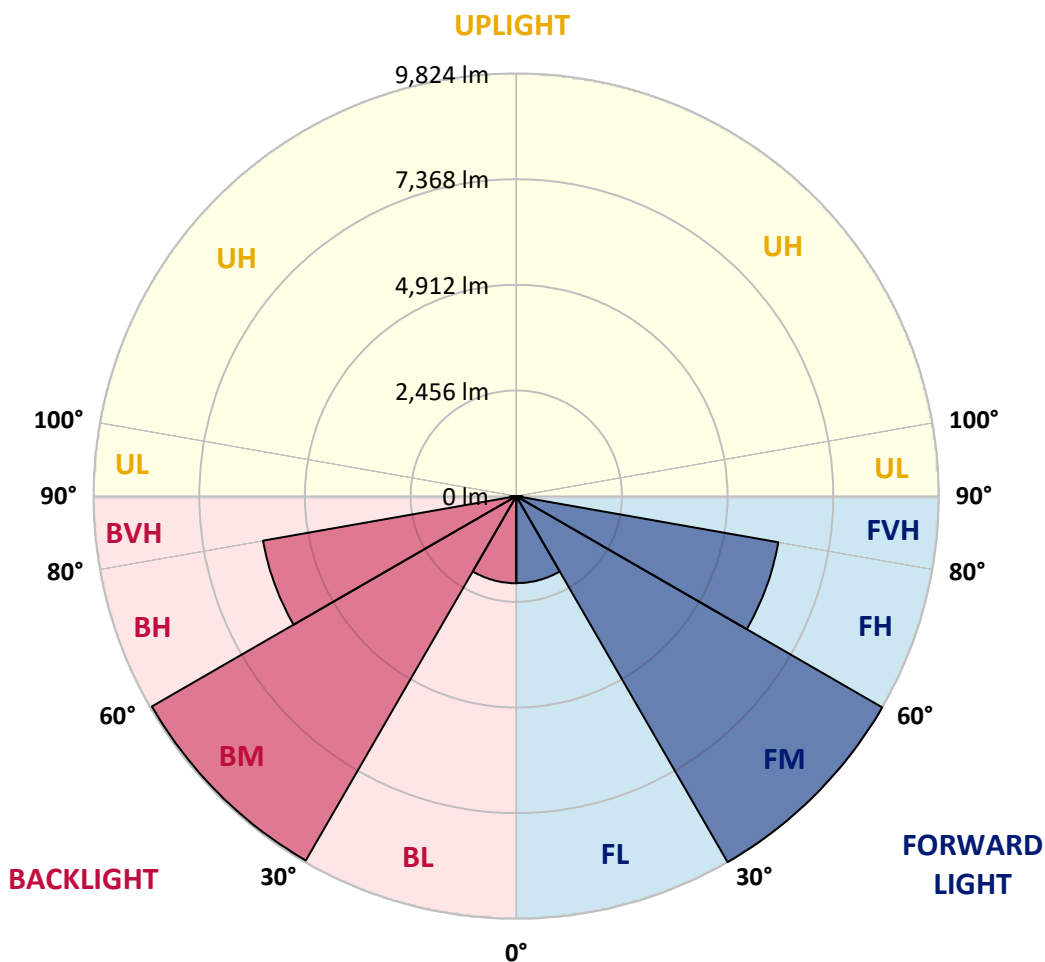


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.8	5.6			
FM (30°-60°)	9824.2	27.2			
FH (60°-80°)	6185.9	17.1			G3/7500
FVH (80°-90°)	143.0	0.4			G2/225
BL (0°-30°)	2024.0	5.6	B3/2500		
BM (30°-60°)	9780.3	27.1	B5		
BH (60°-80°)	5976.9	16.6	B5		G5
BVH (80°-90°)	136.9	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°	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9
2.5°	3672.5	3672.5	3668.6	3688.1	3707.5	3715.3	3730.9	3734.8	3758.1	3738.7	3777.6
5°	3660.9	3657.0	3688.1	3734.8	3734.8	3785.4	3816.5	3859.3	3870.9	3894.3	3902.1
7.5°	3742.6	3734.8	3719.2	3769.8	3812.6	3890.4	3933.2	4007.1	4034.3	4065.5	4100.5
10°	3793.1	3793.1	3777.6	3867.1	3906.0	4011.0	4104.4	4178.3	4283.3	4318.3	4322.2
12.5°	3800.9	3812.6	3859.3	3976.0	4084.9	4221.1	4291.1	4431.2	4536.2	4602.3	4625.7
15°	3917.6	3894.3	3944.9	4104.4	4263.9	4384.5	4509.0	4610.1	4761.8	4847.4	4901.9
17.5°	4022.7	3999.3	4092.7	4283.3	4446.7	4633.5	4742.4	4851.3	4960.3	5038.1	5042.0
20°	4190.0	4209.4	4291.1	4497.3	4711.3	4874.7	4999.2	5018.6	5073.1	5185.9	5166.4
22.5°	4396.1	4380.6	4551.8	4777.4	5010.8	5147.0	5217.0	5166.4	5139.2	5259.8	5287.0
25°	4602.3	4649.0	4804.6	5014.7	5294.8	5477.7	5497.1	5357.1	5255.9	5298.7	5287.0
27.5°	4917.5	4925.2	5088.6	5337.6	5621.6	5781.1	5769.5	5571.0	5376.5	5380.4	5388.2
30°	5322.1	5283.2	5462.1	5687.8	5967.9	6111.8	6131.3	5847.3	5586.6	5508.8	5528.3
32.5°	5711.1	5757.8	5913.4	6170.2	6376.4	6458.1	6415.3	6162.4	5823.9	5718.9	5730.6
35°	6209.1	6201.3	6415.3	6633.1	6788.7	6804.3	6769.3	6399.7	6080.7	5944.5	5890.1
37.5°	6742.1	6812.1	6952.1	7131.1	7294.5	7302.3	7111.6	6816.0	6423.0	6197.4	6263.5
40°	7337.3	7415.1	7516.2	7776.9	7897.5	7773.0	7578.5	7177.8	6769.3	6570.9	6602.0
42.5°	7862.5	7897.5	8103.7	8411.0	8469.4	8414.9	8127.0	7640.7	7166.1	6948.2	6963.8
45°	8344.9	8391.6	8660.0	8936.2	9072.4	8979.0	8644.5	8181.5	7629.1	7442.3	7368.4
47.5°	8788.4	8881.8	9142.4	9426.4	9636.5	9644.3	9231.9	8671.7	8088.1	7843.0	7839.1
50°	9088.0	9224.1	9480.9	9803.8	10111.1	10231.7	9819.4	9216.3	8590.0	8329.3	8302.1
52.5°	9251.4	9391.4	9648.2	10150.0	10492.4	10679.1	10484.6	9726.0	9177.4	8905.1	8862.3
55°	9053.0	9146.3	9566.5	10270.6	10799.7	11107.1	10978.7	10430.2	9761.0	9539.2	9578.2
57.5°	8208.7	8403.3	8920.7	9799.9	10792.0	11546.7	11535.0	11095.4	10434.0	10224.0	10231.7
60°	6757.6	6921.0	7559.0	8788.4	10356.2	11725.7	12138.0	11741.2	11188.8	10943.7	10935.9
62.5°	4769.6	4975.8	5715.0	7057.2	9072.4	11476.7	12830.5	12554.3	11928.0	11749.0	11815.1
65°	2668.8	2793.3	3478.0	4691.8	6913.2	10107.2	12955.0	13398.5	12678.8	12406.5	12418.1
67.5°	1427.8	1474.5	1793.5	2462.6	4228.9	7792.5	11698.4	13884.8	13491.9	13021.2	12947.2
70°	980.4	995.9	1077.6	1260.5	1999.7	4660.7	8823.4	13017.3	14102.7	13460.8	13585.3
72.5°	828.7	820.9	840.3	859.8	1046.5	2085.3	5178.1	10017.8	13312.9	13071.7	13025.0
75°	719.7	715.8	723.6	704.2	727.5	918.1	2291.4	6244.1	9745.4	10877.5	11052.6
77.5°	595.2	599.1	603.0	583.6	575.8	606.9	922.0	2742.7	4796.9	5294.8	5711.1
80°	451.3	459.1	490.2	470.7	439.6	443.5	544.7	918.1	1377.2	1248.8	1287.7
82.5°	307.3	311.2	377.4	354.0	330.7	299.6	350.1	474.6	536.9	408.5	357.9
85°	217.9	214.0	245.1	225.6	210.1	151.7	210.1	268.4	322.9	202.3	182.8
87.5°	50.6	50.6	101.2	81.7	77.8	62.2	81.7	105.0	140.1	89.5	81.7
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°	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9	3695.9
2.5°	3765.9	3730.9	3730.9	3723.1	3692.0	3684.2	3657.0	3664.8	3645.3	3625.8
5°	3898.2	3851.5	3851.5	3785.4	3723.1	3715.3	3684.2	3684.2	3653.1	3660.9
7.5°	4081.0	4038.2	3968.2	3909.8	3824.3	3789.2	3730.9	3723.1	3715.3	3699.8
10°	4298.9	4244.4	4174.4	4053.8	3983.8	3917.6	3859.3	3777.6	3758.1	3762.0
12.5°	4594.6	4509.0	4357.2	4252.2	4162.7	4077.1	3991.5	3870.9	3843.7	3855.4
15°	4804.6	4695.7	4544.0	4505.1	4384.5	4279.4	4139.4	4003.2	3956.5	3944.9
17.5°	4975.8	4886.3	4796.9	4738.5	4641.2	4512.9	4318.3	4162.7	4057.7	4046.0
20°	5115.9	4999.2	4979.7	5014.7	4894.1	4808.5	4571.2	4380.6	4240.5	4182.2
22.5°	5201.5	5127.5	5182.0	5213.1	5205.3	5061.4	4816.3	4594.6	4419.5	4365.0
25°	5294.8	5209.2	5403.8	5508.8	5536.0	5298.7	5108.1	4816.3	4645.1	4610.1
27.5°	5341.5	5372.6	5598.3	5820.0	5800.6	5617.7	5361.0	5100.3	4964.1	4901.9
30°	5477.7	5528.3	5870.6	6119.6	6123.5	5944.5	5750.0	5454.3	5302.6	5275.4
32.5°	5722.8	5785.0	6150.7	6415.3	6461.9	6325.8	6131.3	5948.4	5792.8	5730.6
35°	5909.5	6069.0	6481.4	6722.6	6847.1	6765.4	6656.5	6465.8	6302.4	6248.0
37.5°	6177.9	6399.7	6796.5	7123.3	7263.4	7255.6	7173.9	6967.7	6831.5	6784.8
40°	6563.1	6784.8	7146.7	7578.5	7839.1	7827.5	7780.8	7621.3	7419.0	7395.6
42.5°	6971.6	7154.4	7625.2	8119.3	8492.7	8453.8	8329.3	8142.6	8002.5	7971.4
45°	7368.4	7652.4	8088.1	8722.3	9002.4	9099.6	8951.8	8632.8	8473.3	8453.8
47.5°	7866.4	8092.0	8636.7	9204.7	9620.9	9636.5	9383.6	9088.0	8796.2	8858.4
50°	8309.9	8609.4	9161.9	9784.3	10282.3	10103.4	9780.5	9410.9	9200.8	9119.1
52.5°	8784.5	9150.2	9792.1	10426.3	10702.5	10523.5	9998.3	9585.9	9266.9	9231.9
55°	9477.0	9667.6	10508.0	10994.3	11083.7	10706.4	9932.2	9348.6	8936.2	8835.1
57.5°	10181.2	10402.9	11138.2	11558.4	11465.0	10605.2	9504.2	8601.7	8060.9	7917.0
60°	10893.1	11165.4	11784.0	12169.2	11686.7	9908.8	8294.3	7131.1	6500.9	6372.5
62.5°	11686.7	12040.8	12593.2	12729.4	11029.3	8531.6	6582.5	5147.0	4509.0	4295.0
65°	12390.9	12752.7	13433.5	12612.7	9632.6	6364.7	4256.1	2941.1	2470.4	2299.2
67.5°	12970.6	13379.1	13713.6	11161.5	7053.3	3727.0	2217.5	1548.4	1373.3	1311.1
70°	13429.6	14110.5	12546.5	8204.8	4030.4	1816.8	1198.2	1019.3	995.9	980.4
72.5°	13028.9	12939.5	9368.1	4734.6	1766.2	999.8	867.6	840.3	836.4	840.3
75°	10655.8	9504.2	5602.2	2058.0	887.0	723.6	719.7	708.1	727.5	727.5
77.5°	5170.3	4520.6	2342.0	883.1	583.6	568.0	587.4	587.4	587.4	587.4
80°	1198.2	1326.6	836.4	536.9	424.1	424.1	466.8	470.7	451.3	443.5
82.5°	408.5	544.7	459.1	338.5	280.1	315.1	354.0	361.8	299.6	303.5
85°	202.3	319.0	249.0	194.5	143.9	194.5	229.5	241.2	206.2	198.4
87.5°	93.4	140.1	93.4	66.1	50.6	70.0	66.1	54.5	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)