

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: P481340

Luminaire Tested: **IFLD-L-SA7A-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481340
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

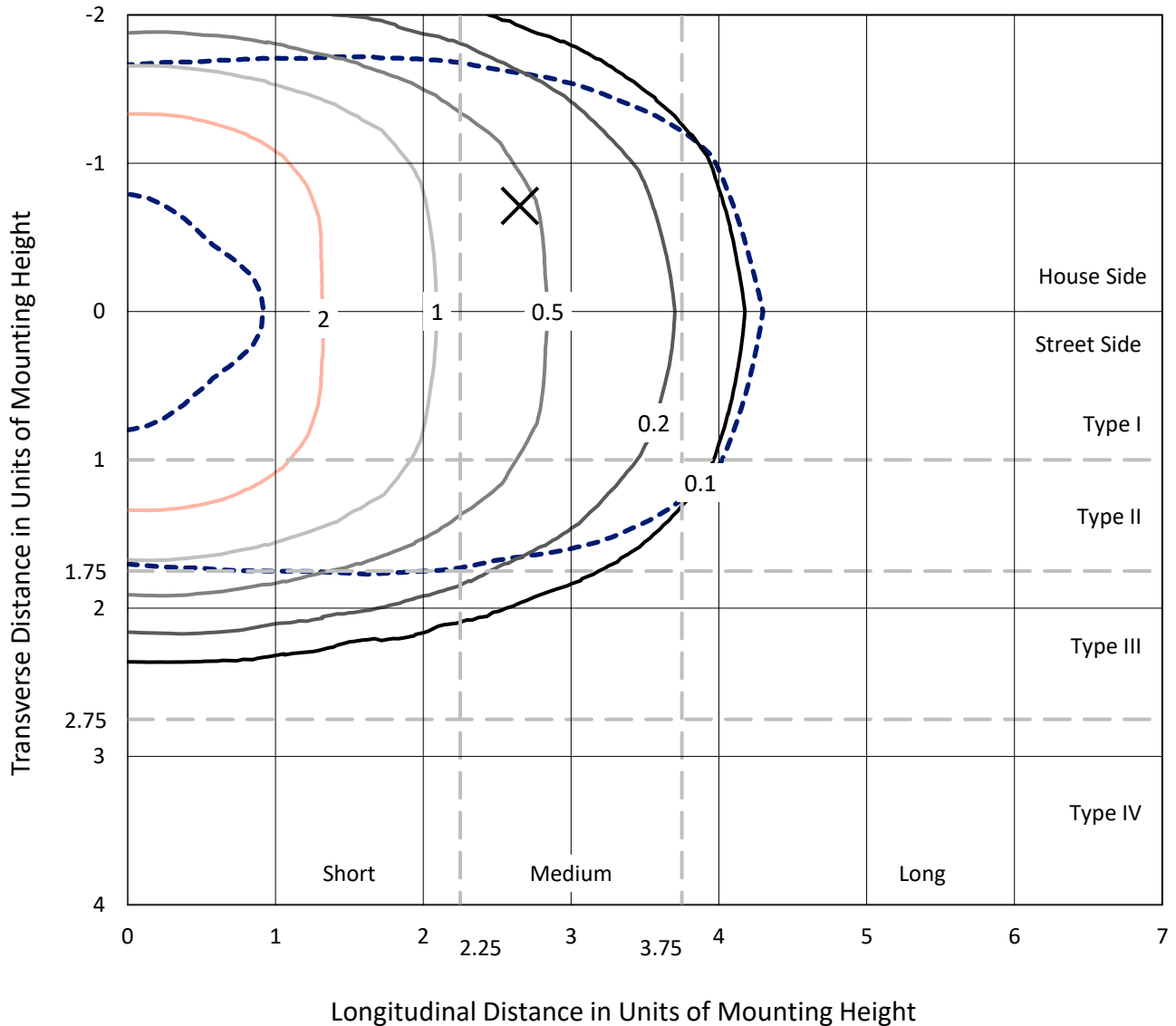
Lumens per Lamp: N/A
Luminaire Lumens: 32978.7 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 217.6
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

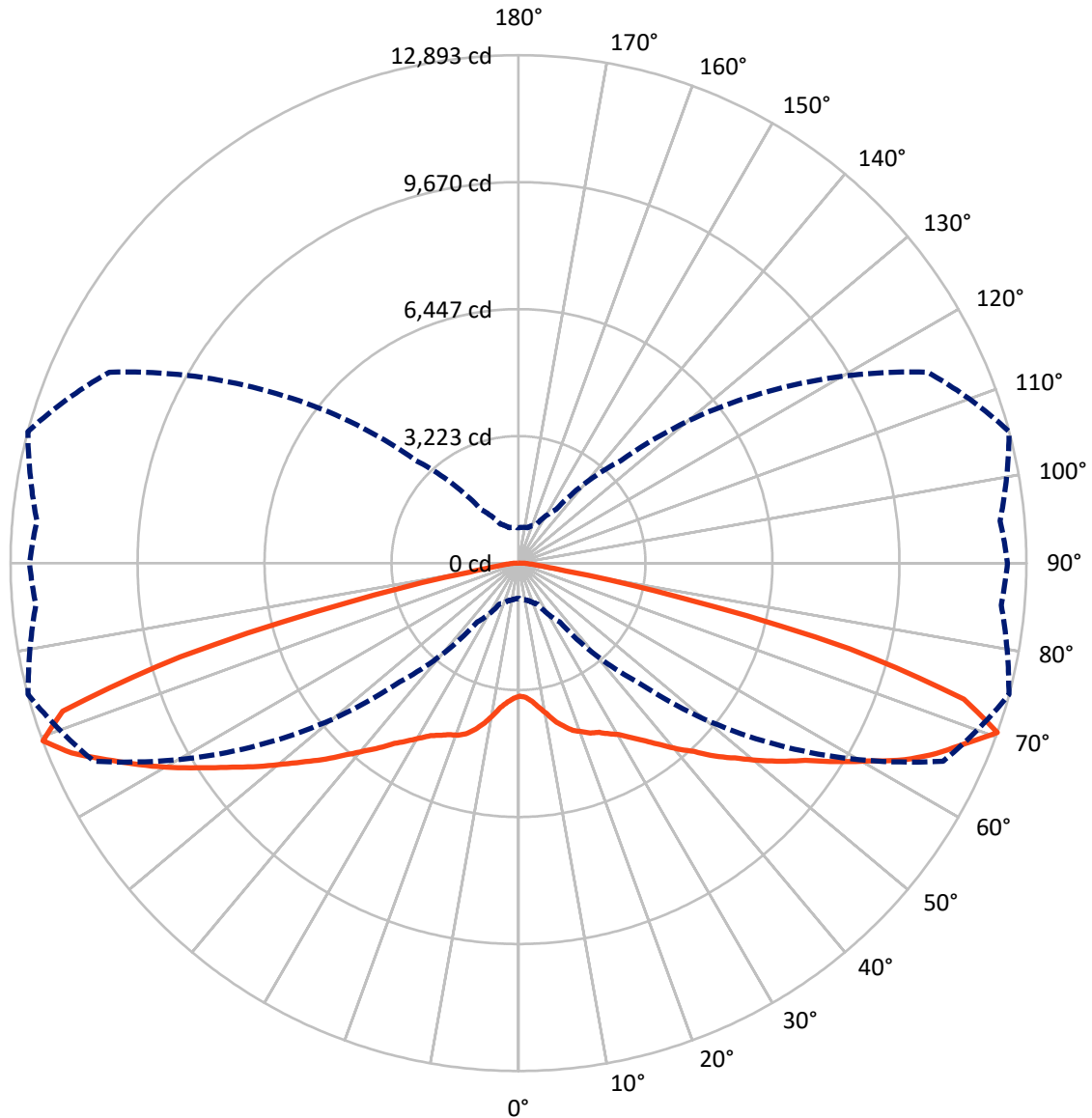
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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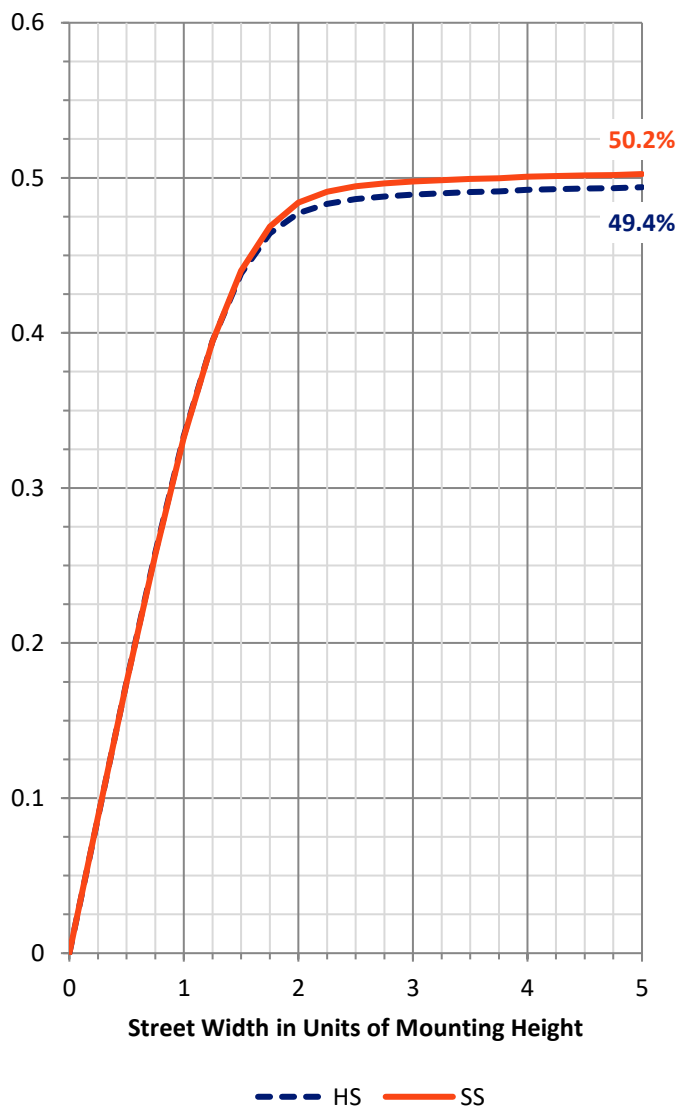
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16372.0	0.0	16372.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16606.7	0.0	16606.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	32978.7	0.0	32978.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	1.0
10°-20°	1144.5	3.5
20°-30°	2216.1	6.7
30°-40°	3748.3	11.4
40°-50°	5979.7	18.1
50°-60°	8184.9	24.8
60°-70°	7714.8	23.4
70°-80°	3398.6	10.3
80°-90°	255.7	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°	32978.7	100.0
0°-180°	32978.7	100.0

Coefficient of Utilization



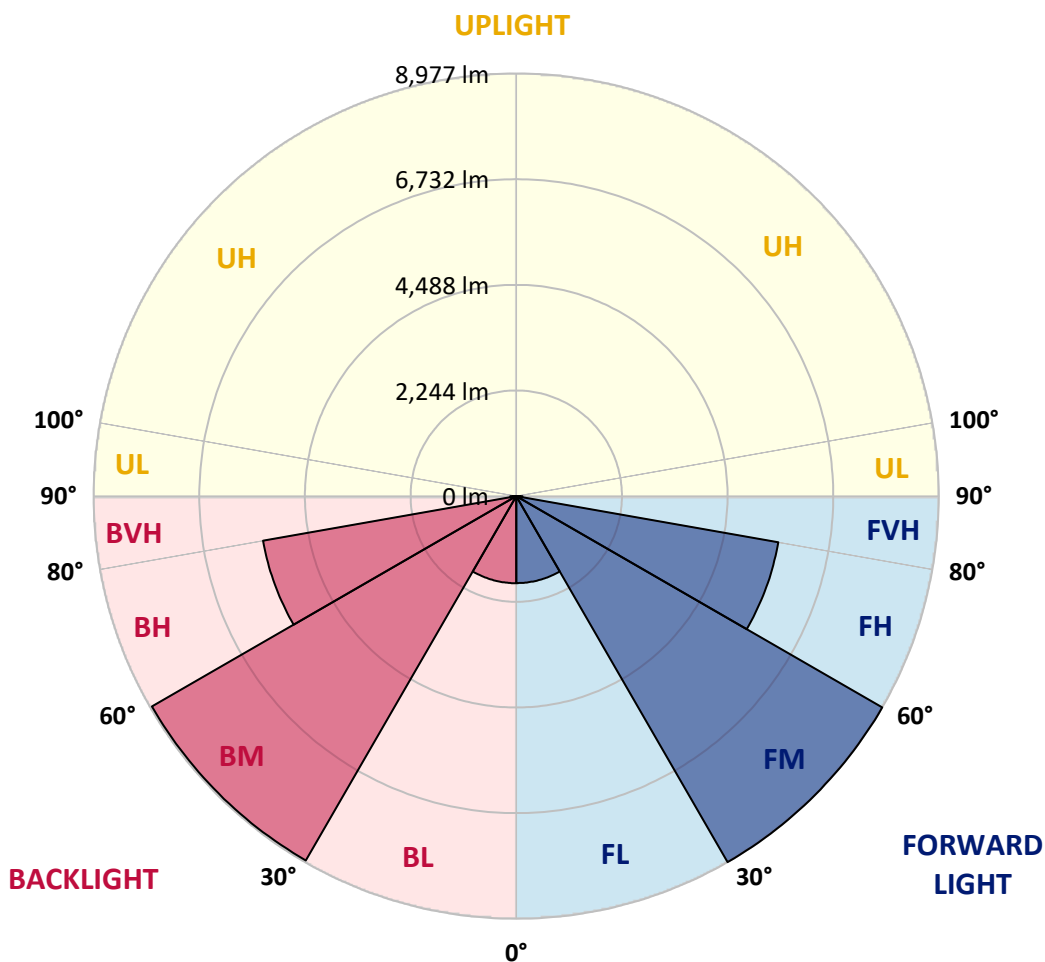
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.3	5.6			
FM (30°-60°)	8976.5	27.2			
FH (60°-80°)	5652.2	17.1			G3/7500
FVH (80°-90°)	130.6	0.4			G2/225
BL (0°-30°)	1849.3	5.6	B3/2500		
BM (30°-60°)	8936.4	27.1	B5		
BH (60°-80°)	5461.2	16.6	B5		G5
BVH (80°-90°)	125.1	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°	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0
2.5°	3355.7	3355.7	3352.1	3369.9	3387.7	3394.8	3409.0	3412.5	3433.9	3416.1	3451.6
5°	3345.0	3341.4	3369.9	3412.5	3412.5	3458.7	3487.2	3526.3	3536.9	3558.3	3565.4
7.5°	3419.6	3412.5	3398.3	3444.5	3483.6	3554.7	3593.8	3661.4	3686.2	3714.7	3746.7
10°	3465.9	3465.9	3451.6	3533.4	3568.9	3664.9	3750.2	3817.8	3913.7	3945.7	3949.3
12.5°	3473.0	3483.6	3526.3	3632.9	3732.5	3856.9	3920.9	4048.8	4144.8	4205.2	4226.6
15°	3579.6	3558.3	3604.5	3750.2	3896.0	4006.2	4119.9	4212.3	4351.0	4429.2	4479.0
17.5°	3675.6	3654.3	3739.6	3913.7	4063.0	4233.7	4333.2	4432.7	4532.3	4603.4	4606.9
20°	3828.4	3846.2	3920.9	4109.3	4304.8	4454.1	4567.8	4585.6	4635.4	4738.4	4720.7
22.5°	4016.8	4002.6	4159.0	4365.2	4578.5	4702.9	4766.9	4720.7	4695.8	4806.0	4830.9
25°	4205.2	4247.9	4390.1	4582.0	4838.0	5005.0	5022.8	4894.9	4802.4	4841.5	4830.9
27.5°	4493.2	4500.3	4649.6	4877.1	5136.6	5282.3	5271.7	5090.4	4912.6	4916.2	4923.3
30°	4862.9	4827.3	4990.8	5197.0	5452.9	5584.5	5602.2	5342.7	5104.6	5033.5	5051.3
32.5°	5218.3	5261.0	5403.2	5637.8	5826.2	5900.8	5861.7	5630.7	5321.4	5225.4	5236.1
35°	5673.3	5666.2	5861.7	6060.8	6203.0	6217.2	6185.2	5847.5	5556.0	5431.6	5381.8
37.5°	6160.3	6224.3	6352.3	6515.8	6665.1	6672.2	6498.0	6227.9	5868.8	5662.7	5723.1
40°	6704.2	6775.3	6867.7	7105.9	7216.1	7102.3	6924.6	6558.5	6185.2	6003.9	6032.4
42.5°	7184.1	7216.1	7404.5	7685.3	7738.6	7688.9	7425.8	6981.5	6547.8	6348.7	6363.0
45°	7624.9	7667.5	7912.8	8165.2	8289.6	8204.3	7898.6	7475.6	6970.8	6800.2	6732.6
47.5°	8030.1	8115.4	8353.6	8613.1	8805.0	8812.2	8435.4	7923.5	7390.3	7166.3	7162.8
50°	8303.8	8428.2	8662.9	8957.9	9238.7	9348.9	8972.1	8421.1	7848.8	7610.7	7585.8
52.5°	8453.1	8581.1	8815.7	9274.3	9587.1	9757.7	9580.0	8886.8	8385.6	8136.8	8097.7
55°	8271.8	8357.2	8741.1	9384.5	9867.9	10148.7	10031.4	9530.2	8918.8	8716.2	8751.7
57.5°	7500.5	7678.2	8151.0	8954.3	9860.8	10550.4	10539.8	10138.1	9533.8	9341.8	9348.9
60°	6174.6	6323.9	6906.8	8030.1	9462.7	10713.9	11090.7	10728.2	10223.4	9999.4	9992.3
62.5°	4358.1	4546.5	5221.9	6448.3	8289.6	10486.4	11723.5	11471.1	10898.8	10735.3	10795.7
65°	2438.5	2552.3	3177.9	4287.0	6316.7	9235.2	11837.2	12242.5	11584.8	11336.0	11346.7
67.5°	1304.6	1347.2	1638.7	2250.1	3864.0	7120.1	10689.0	12686.8	12327.8	11897.7	11830.1
70°	895.8	910.0	984.7	1151.7	1827.1	4258.6	8062.1	11894.1	12885.9	12299.3	12413.1
72.5°	757.2	750.0	767.8	785.6	956.2	1905.3	4731.3	9153.4	12164.3	11943.9	11901.2
75°	657.6	654.1	661.2	643.4	664.7	838.9	2093.7	5705.3	8904.6	9939.0	10099.0
77.5°	543.9	547.4	551.0	533.2	526.1	554.5	842.5	2506.1	4383.0	4838.0	5218.3
80°	412.3	419.5	447.9	430.1	401.7	405.2	497.7	838.9	1258.4	1141.1	1176.6
82.5°	280.8	284.4	344.8	323.5	302.2	273.7	319.9	433.7	490.6	373.2	327.0
85°	199.1	195.5	223.9	206.2	192.0	138.6	192.0	245.3	295.0	184.8	167.1
87.5°	46.2	46.2	92.4	74.6	71.1	56.9	74.6	96.0	128.0	81.8	74.6
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°	145°	155°	165°	175°	180°
0°	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0	3377.0
2.5°	3441.0	3409.0	3409.0	3401.9	3373.4	3366.3	3341.4	3348.5	3330.8	3313.0
5°	3561.8	3519.2	3519.2	3458.7	3401.9	3394.8	3366.3	3366.3	3337.9	3345.0
7.5°	3728.9	3689.8	3625.8	3572.5	3494.3	3462.3	3409.0	3401.9	3394.8	3380.5
10°	3928.0	3878.2	3814.2	3704.0	3640.0	3579.6	3526.3	3451.6	3433.9	3437.4
12.5°	4198.1	4119.9	3981.3	3885.3	3803.6	3725.3	3647.1	3536.9	3512.1	3522.7
15°	4390.1	4290.5	4151.9	4116.4	4006.2	3910.2	3782.2	3657.8	3615.2	3604.5
17.5°	4546.5	4464.7	4383.0	4329.7	4240.8	4123.5	3945.7	3803.6	3707.6	3696.9
20°	4674.5	4567.8	4550.0	4582.0	4471.8	4393.6	4176.8	4002.6	3874.6	3821.3
22.5°	4752.7	4685.1	4734.9	4763.3	4756.2	4624.7	4400.7	4198.1	4038.2	3988.4
25°	4838.0	4759.8	4937.5	5033.5	5058.4	4841.5	4667.4	4400.7	4244.3	4212.3
27.5°	4880.6	4909.1	5115.2	5317.9	5300.1	5133.0	4898.4	4660.2	4535.8	4479.0
30°	5005.0	5051.3	5364.1	5591.6	5595.1	5431.6	5253.9	4983.7	4845.1	4820.2
32.5°	5229.0	5285.9	5620.0	5861.7	5904.4	5780.0	5602.2	5435.2	5293.0	5236.1
35°	5399.6	5545.4	5922.2	6142.6	6256.3	6181.7	6082.1	5907.9	5758.7	5708.9
37.5°	5644.9	5847.5	6210.1	6508.7	6636.7	6629.6	6554.9	6366.5	6242.1	6199.4
40°	5996.8	6199.4	6530.0	6924.6	7162.8	7152.1	7109.4	6963.7	6778.9	6757.5
42.5°	6370.1	6537.1	6967.3	7418.7	7760.0	7724.4	7610.7	7440.0	7312.1	7283.6
45°	6732.6	6992.1	7390.3	7969.7	8225.6	8314.5	8179.4	7887.9	7742.2	7724.4
47.5°	7187.6	7393.8	7891.5	8410.5	8790.8	8805.0	8574.0	8303.8	8037.2	8094.1
50°	7592.9	7866.6	8371.4	8940.1	9395.1	9231.6	8936.6	8598.9	8406.9	8332.3
52.5°	8026.6	8360.7	8947.2	9526.7	9779.0	9615.5	9135.6	8758.8	8467.3	8435.4
55°	8659.3	8833.5	9601.3	10045.6	10127.4	9782.6	9075.2	8542.0	8165.2	8072.8
57.5°	9302.7	9505.3	10177.2	10561.1	10475.8	9690.2	8684.2	7859.5	7365.4	7233.9
60°	9953.2	10202.1	10767.3	11119.2	10678.4	9053.9	7578.7	6515.8	5939.9	5822.6
62.5°	10678.4	11001.9	11506.6	11631.1	10077.6	7795.5	6014.6	4702.9	4119.9	3924.4
65°	11321.8	11652.4	12274.5	11524.4	8801.5	5815.5	3888.9	2687.4	2257.2	2100.8
67.5°	11851.4	12224.7	12530.4	10198.5	6444.7	3405.4	2026.2	1414.8	1254.8	1197.9
70°	12270.9	12893.0	11464.0	7496.9	3682.7	1660.1	1094.9	931.3	910.0	895.8
72.5°	11904.8	11823.0	8559.8	4326.1	1613.8	913.6	792.7	767.8	764.3	767.8
75°	9736.4	8684.2	5118.8	1880.4	810.5	661.2	657.6	647.0	664.7	664.7
77.5°	4724.2	4130.6	2139.9	806.9	533.2	519.0	536.8	536.8	536.8	536.8
80°	1094.9	1212.2	764.3	490.6	387.5	387.5	426.6	430.1	412.3	405.2
82.5°	373.2	497.7	419.5	309.3	255.9	287.9	323.5	330.6	273.7	277.3
85°	184.8	291.5	227.5	177.7	131.5	177.7	209.7	220.4	188.4	181.3
87.5°	85.3	128.0	85.3	60.4	46.2	64.0	60.4	49.8	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)