

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: P481319

Luminaire Tested: **IFLD-S-SA3E-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481319  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

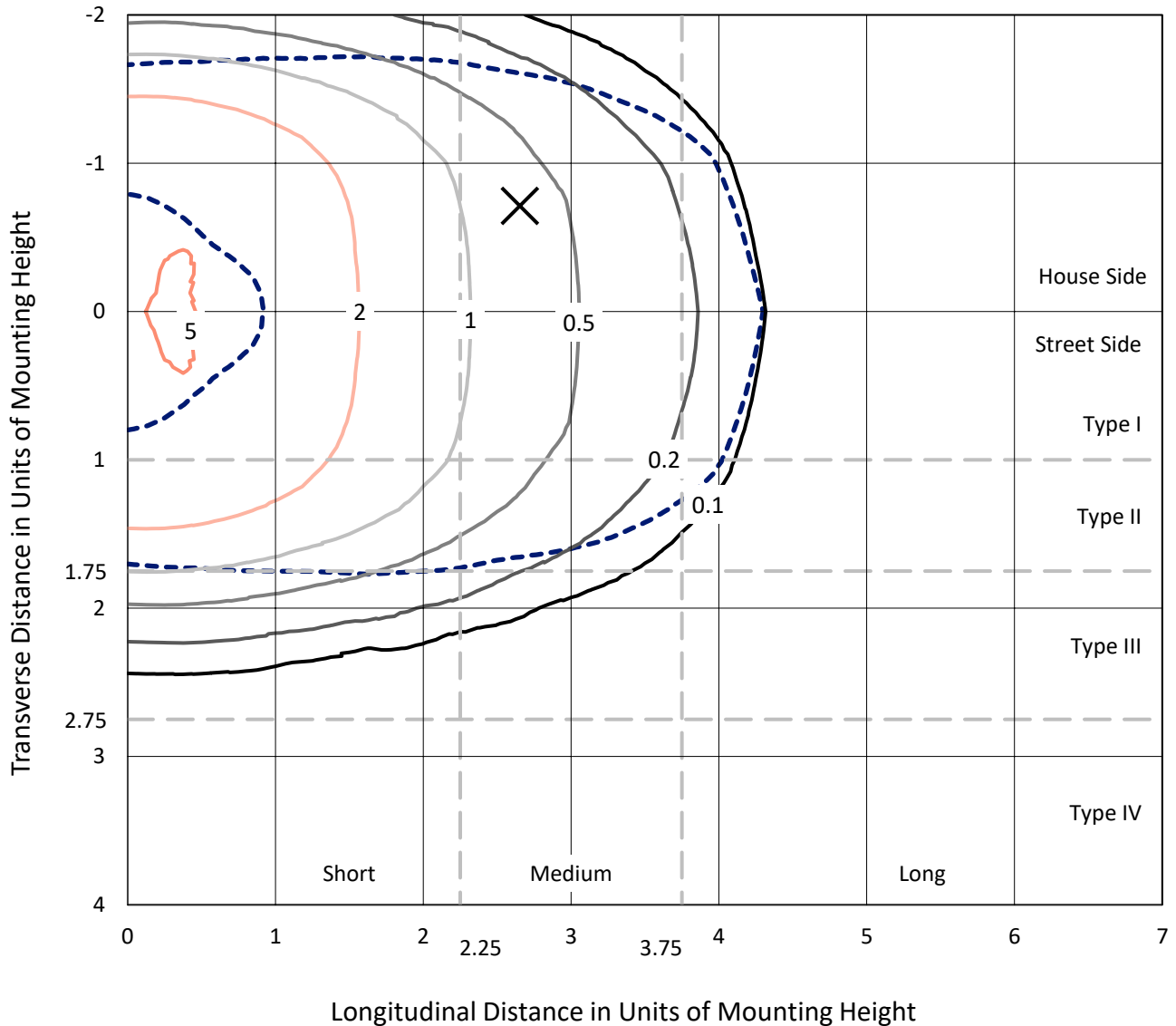
Lumens per Lamp: N/A  
Luminaire Lumens: 28419.5 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1  
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

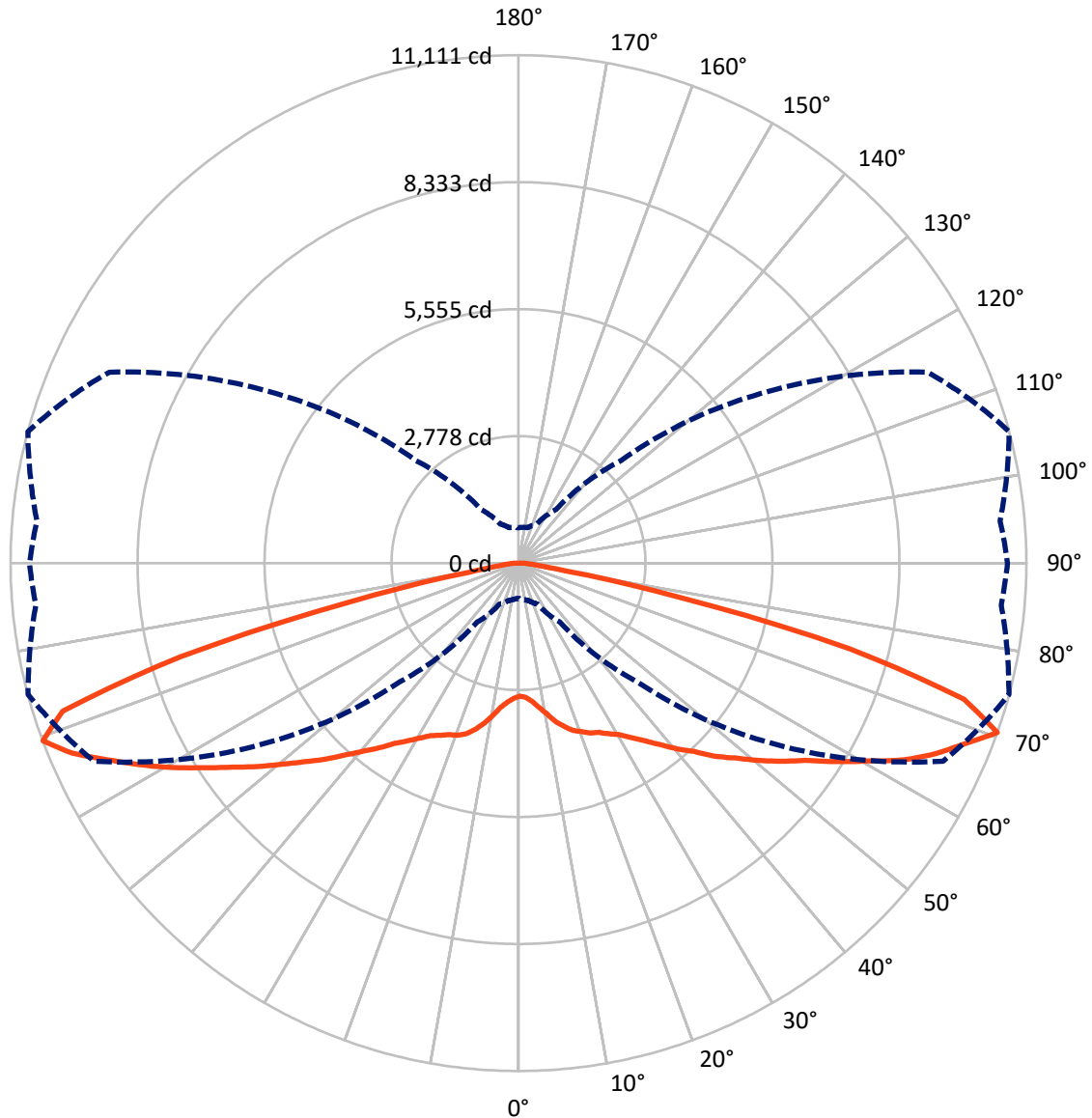
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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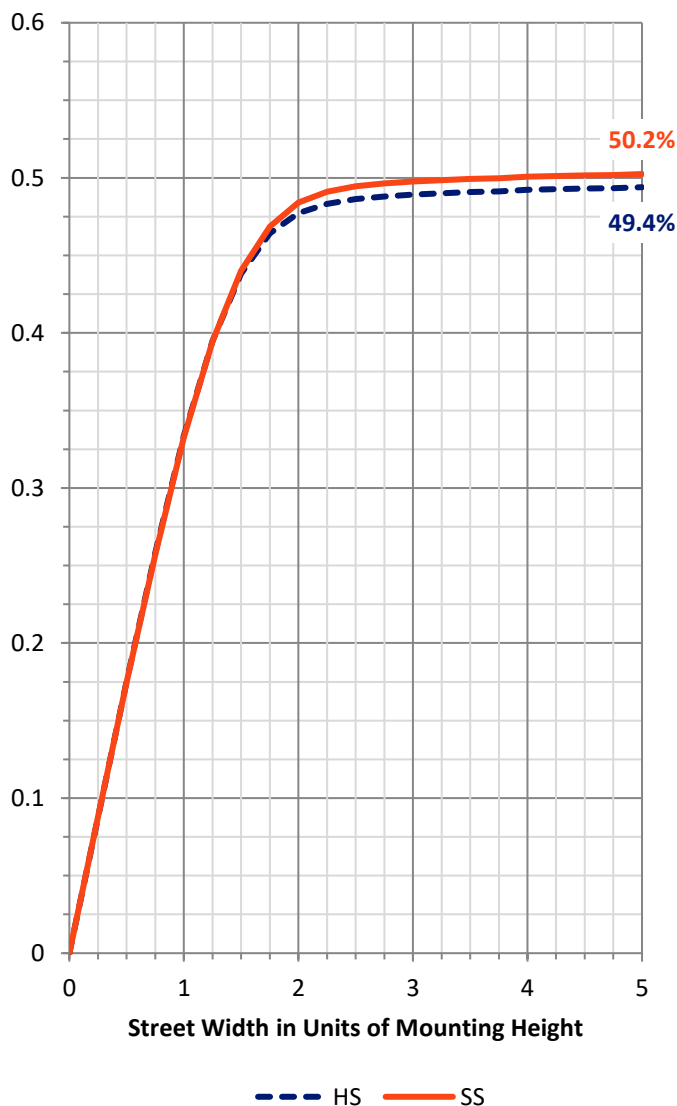
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14108.7	0.0	14108.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	14310.9	0.0	14310.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	28419.5	0.0	28419.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.7	1.0
10°-20°	986.3	3.5
20°-30°	1909.7	6.7
30°-40°	3230.1	11.4
40°-50°	5153.0	18.1
50°-60°	7053.4	24.8
60°-70°	6648.3	23.4
70°-80°	2928.8	10.3
80°-90°	220.4	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°	28419.5	100.0
0°-180°	28419.5	100.0

**Coefficient of Utilization**



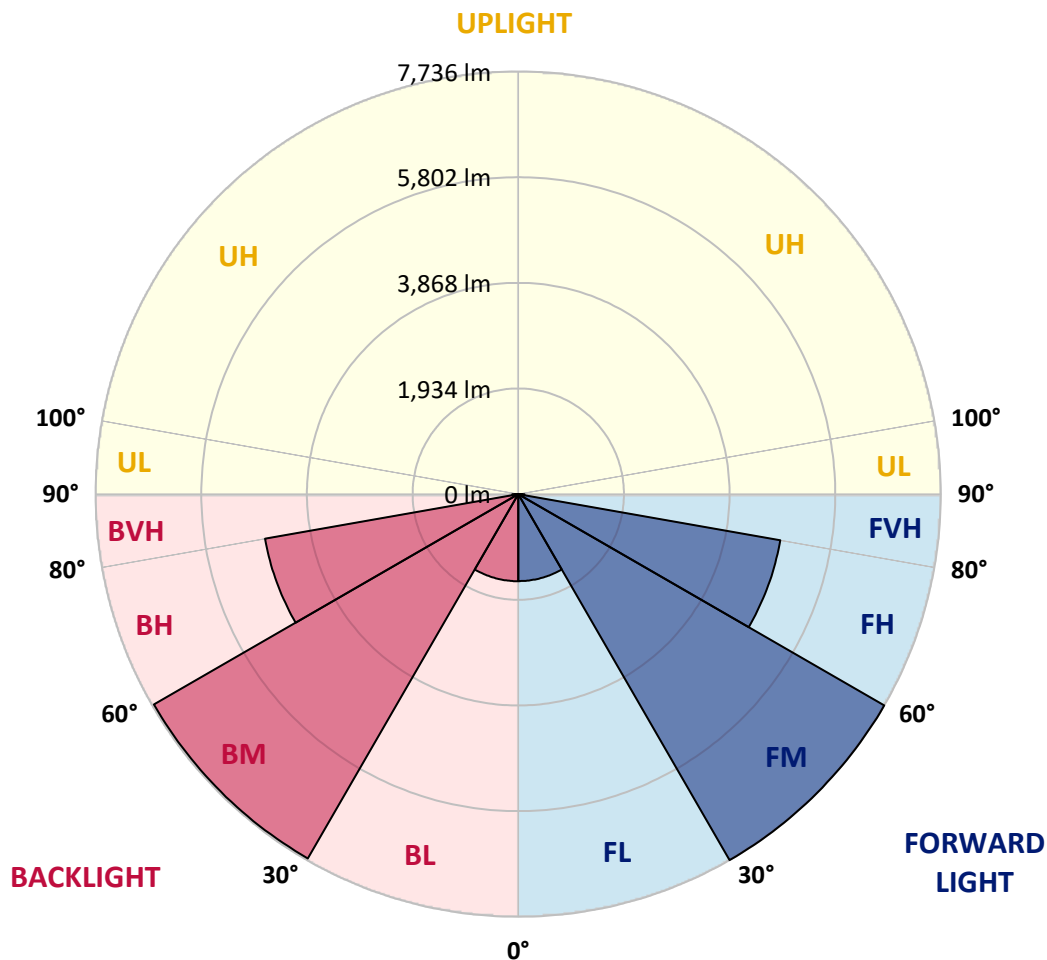
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.0	5.6			
FM (30°-60°)	7735.5	27.2			
FH (60°-80°)	4870.8	17.1			G2/5000
FVH (80°-90°)	112.6	0.4			G2/225
BL (0°-30°)	1593.7	5.6	B3/2500		
BM (30°-60°)	7701.0	27.1	B4/8500		
BH (60°-80°)	4706.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	107.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2891.8	2891.8	2888.7	2904.0	2919.3	2925.4	2937.7	2940.8	2959.1	2943.8	2974.5
5°	2882.6	2879.5	2904.0	2940.8	2940.8	2980.6	3005.1	3038.8	3048.0	3066.4	3072.5
7.5°	2946.9	2940.8	2928.5	2968.3	3002.0	3063.3	3097.0	3155.2	3176.6	3201.1	3228.7
10°	2986.7	2986.7	2974.5	3044.9	3075.5	3158.3	3231.8	3290.0	3372.7	3400.3	3403.3
12.5°	2992.8	3002.0	3038.8	3130.7	3216.5	3323.7	3378.8	3489.1	3571.8	3623.9	3642.3
15°	3084.7	3066.4	3106.2	3231.8	3357.4	3452.3	3550.4	3630.0	3749.5	3816.9	3859.8
17.5°	3167.4	3149.1	3222.6	3372.7	3501.3	3648.4	3734.2	3819.9	3905.7	3967.0	3970.0
20°	3299.2	3314.5	3378.8	3541.2	3709.7	3838.3	3936.3	3951.7	3994.5	4083.4	4068.1
22.5°	3461.5	3449.3	3584.1	3761.7	3945.5	4052.7	4107.9	4068.1	4046.6	4141.6	4163.0
25°	3623.9	3660.6	3783.2	3948.6	4169.1	4313.1	4328.4	4218.2	4138.5	4172.2	4163.0
27.5°	3872.0	3878.1	4006.8	4202.8	4426.5	4552.1	4542.9	4386.6	4233.5	4236.5	4242.7
30°	4190.6	4160.0	4300.9	4478.5	4699.1	4812.4	4827.8	4604.1	4398.9	4337.6	4352.9
32.5°	4496.9	4533.7	4656.2	4858.4	5020.7	5085.1	5051.4	4852.3	4585.8	4503.0	4512.2
35°	4889.0	4882.9	5051.4	5222.9	5345.5	5357.7	5330.1	5039.1	4787.9	4680.7	4637.8
37.5°	5308.7	5363.8	5474.1	5615.0	5743.7	5749.8	5599.7	5366.9	5057.5	4879.8	4931.9
40°	5777.4	5838.6	5918.3	6123.5	6218.5	6120.5	5967.3	5651.8	5330.1	5173.9	5198.4
42.5°	6190.9	6218.5	6380.8	6622.8	6668.8	6625.9	6399.2	6016.3	5642.6	5471.0	5483.3
45°	6570.8	6607.5	6818.9	7036.4	7143.6	7070.1	6806.6	6442.1	6007.1	5860.1	5801.9
47.5°	6920.0	6993.5	7198.7	7422.4	7587.8	7593.9	7269.2	6828.1	6368.6	6175.6	6172.5
50°	7155.9	7263.1	7465.3	7719.5	7961.5	8056.5	7731.8	7256.9	6763.8	6558.5	6537.1
52.5°	7284.5	7394.8	7597.0	7992.1	8261.7	8408.7	8255.6	7658.2	7226.3	7011.9	6978.2
55°	7128.3	7201.8	7532.6	8087.1	8503.7	8745.7	8644.6	8212.7	7685.8	7511.2	7541.8
57.5°	6463.6	6616.7	7024.1	7716.4	8497.6	9091.9	9082.7	8736.5	8215.8	8050.3	8056.5
60°	5320.9	5449.6	5952.0	6920.0	8154.5	9232.8	9557.5	9245.0	8810.0	8617.1	8610.9
62.5°	3755.6	3918.0	4500.0	5556.8	7143.6	9036.7	10102.7	9885.3	9392.1	9251.2	9303.2
65°	2101.4	2199.4	2738.6	3694.3	5443.5	7958.4	10200.8	10550.0	9983.3	9768.9	9778.0
67.5°	1124.2	1161.0	1412.2	1939.1	3329.8	6135.8	9211.3	10932.9	10623.5	10252.9	10194.6
70°	772.0	784.2	848.5	992.5	1574.5	3669.8	6947.6	10249.8	11104.4	10599.0	10697.0
72.5°	652.5	646.4	661.7	677.0	824.0	1641.9	4077.2	7888.0	10482.6	10292.7	10255.9
75°	566.7	563.6	569.8	554.5	572.8	722.9	1804.3	4916.6	7673.6	8565.0	8702.8
77.5°	468.7	471.7	474.8	459.5	453.4	477.9	726.0	2159.6	3777.0	4169.1	4496.9
80°	355.3	361.5	386.0	370.7	346.2	349.2	428.9	722.9	1084.4	983.3	1014.0
82.5°	242.0	245.1	297.1	278.8	260.4	235.9	275.7	373.7	422.7	321.6	281.8
85°	171.5	168.5	193.0	177.7	165.4	119.5	165.4	211.4	254.3	159.3	144.0
87.5°	39.8	39.8	79.6	64.3	61.3	49.0	64.3	82.7	110.3	70.5	64.3
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°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2965.3	2937.7	2937.7	2931.6	2907.1	2900.9	2879.5	2885.6	2870.3	2855.0
5°	3069.4	3032.7	3032.7	2980.6	2931.6	2925.4	2900.9	2900.9	2876.4	2882.6
7.5°	3213.4	3179.7	3124.6	3078.6	3011.2	2983.7	2937.7	2931.6	2925.4	2913.2
10°	3384.9	3342.1	3286.9	3192.0	3136.8	3084.7	3038.8	2974.5	2959.1	2962.2
12.5°	3617.8	3550.4	3430.9	3348.2	3277.7	3210.3	3142.9	3048.0	3026.5	3035.7
15°	3783.2	3697.4	3577.9	3547.3	3452.3	3369.6	3259.3	3152.1	3115.4	3106.2
17.5°	3918.0	3847.5	3777.0	3731.1	3654.5	3553.4	3400.3	3277.7	3195.0	3185.8
20°	4028.2	3936.3	3921.0	3948.6	3853.6	3786.2	3599.4	3449.3	3339.0	3293.0
22.5°	4095.6	4037.4	4080.3	4104.8	4098.7	3985.3	3792.4	3617.8	3479.9	3437.0
25°	4169.1	4101.8	4254.9	4337.6	4359.1	4172.2	4022.1	3792.4	3657.6	3630.0
27.5°	4205.9	4230.4	4408.1	4582.7	4567.4	4423.4	4221.2	4016.0	3908.8	3859.8
30°	4313.1	4352.9	4622.5	4818.6	4821.6	4680.7	4527.6	4294.7	4175.3	4153.8
32.5°	4506.1	4555.1	4843.1	5051.4	5088.1	4980.9	4827.8	4683.8	4561.2	4512.2
35°	4653.1	4778.7	5103.5	5293.4	5391.4	5327.1	5241.3	5091.2	4962.5	4919.7
37.5°	4864.5	5039.1	5351.6	5608.9	5719.2	5713.0	5648.7	5486.4	5379.1	5342.4
40°	5167.8	5342.4	5627.3	5967.3	6172.5	6163.4	6126.6	6001.0	5841.7	5823.3
42.5°	5489.4	5633.4	6004.1	6393.1	6687.2	6656.5	6558.5	6411.5	6301.2	6276.7
45°	5801.9	6025.5	6368.6	6867.9	7088.5	7165.0	7048.6	6797.5	6671.9	6656.5
47.5°	6194.0	6371.7	6800.5	7247.8	7575.5	7587.8	7388.7	7155.9	6926.1	6975.1
50°	6543.2	6779.1	7214.1	7704.2	8096.3	7955.4	7701.1	7410.1	7244.7	7180.4
52.5°	6916.9	7204.9	7710.3	8209.6	8427.1	8286.2	7872.7	7548.0	7296.8	7269.2
55°	7462.2	7612.3	8274.0	8656.9	8727.3	8430.2	7820.6	7361.1	7036.4	6956.7
57.5°	8016.6	8191.3	8770.2	9101.1	9027.5	8350.5	7483.6	6772.9	6347.1	6233.8
60°	8577.2	8791.7	9278.7	9582.0	9202.1	7802.2	6530.9	5615.0	5118.8	5017.7
62.5°	9202.1	9480.9	9915.9	10023.1	8684.4	6717.8	5183.1	4052.7	3550.4	3381.9
65°	9756.6	10041.5	10577.6	9931.2	7584.7	5011.6	3351.2	2315.9	1945.2	1810.4
67.5°	10213.0	10534.7	10798.1	8788.6	5553.8	2934.6	1746.1	1219.2	1081.3	1032.3
70°	10574.5	11110.6	9879.1	6460.5	3173.6	1430.6	943.5	802.6	784.2	772.0
72.5°	10259.0	10188.5	7376.4	3728.0	1390.7	787.3	683.1	661.7	658.6	661.7
75°	8390.4	7483.6	4411.1	1620.5	698.4	569.8	566.7	557.5	572.8	572.8
77.5°	4071.1	3559.5	1844.1	695.4	459.5	447.2	462.6	462.6	462.6	462.6
80°	943.5	1044.6	658.6	422.7	333.9	333.9	367.6	370.7	355.3	349.2
82.5°	321.6	428.9	361.5	266.5	220.6	248.1	278.8	284.9	235.9	238.9
85°	159.3	251.2	196.1	153.2	113.3	153.2	180.7	189.9	162.4	156.2
87.5°	73.5	110.3	73.5	52.1	39.8	55.1	52.1	42.9	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)