

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: P480404

Luminaire Tested: **IFLD-L-SA7A-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480404  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

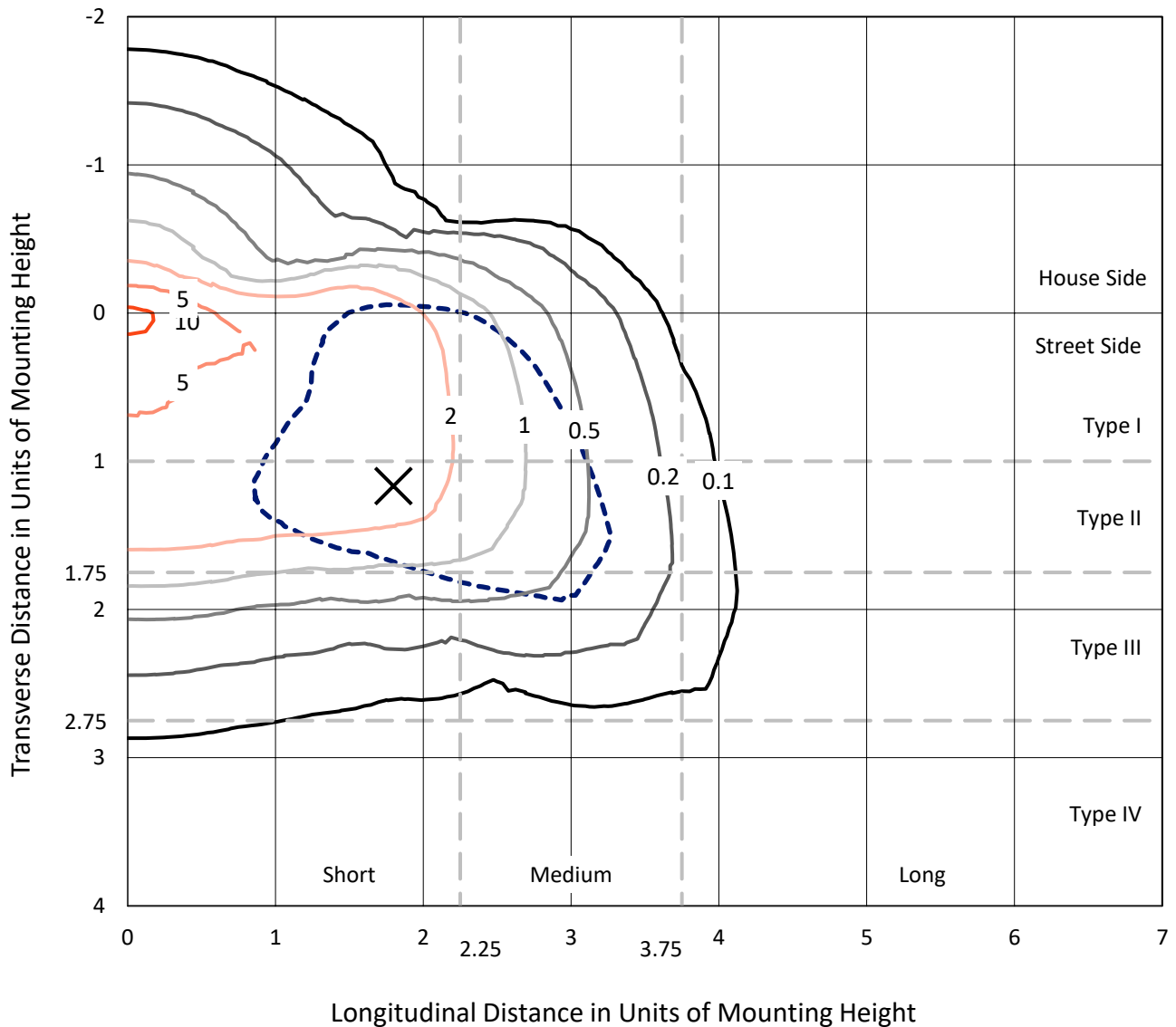
Lumens per Lamp: N/A  
Luminaire Lumens: 25829.2 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

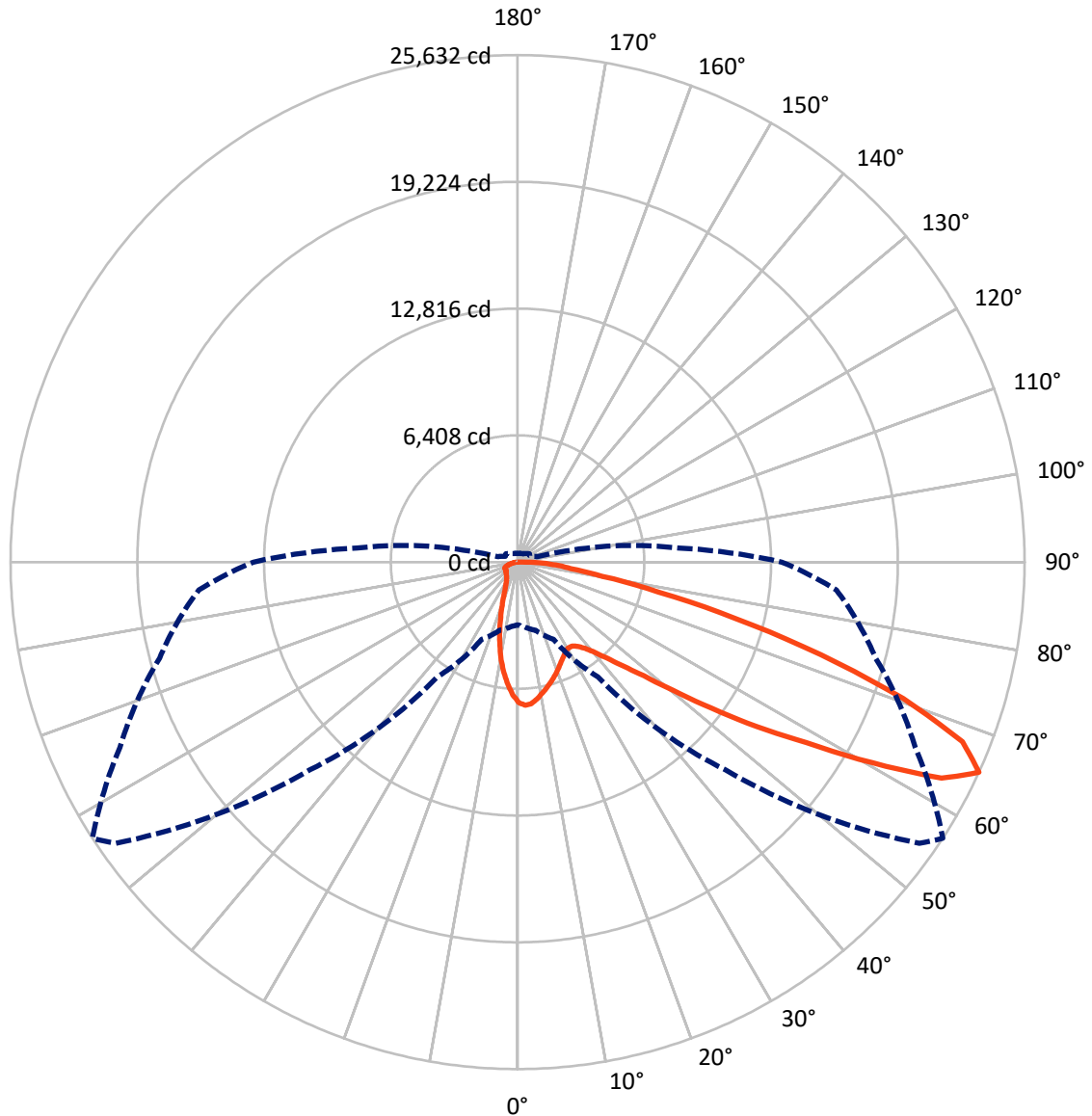
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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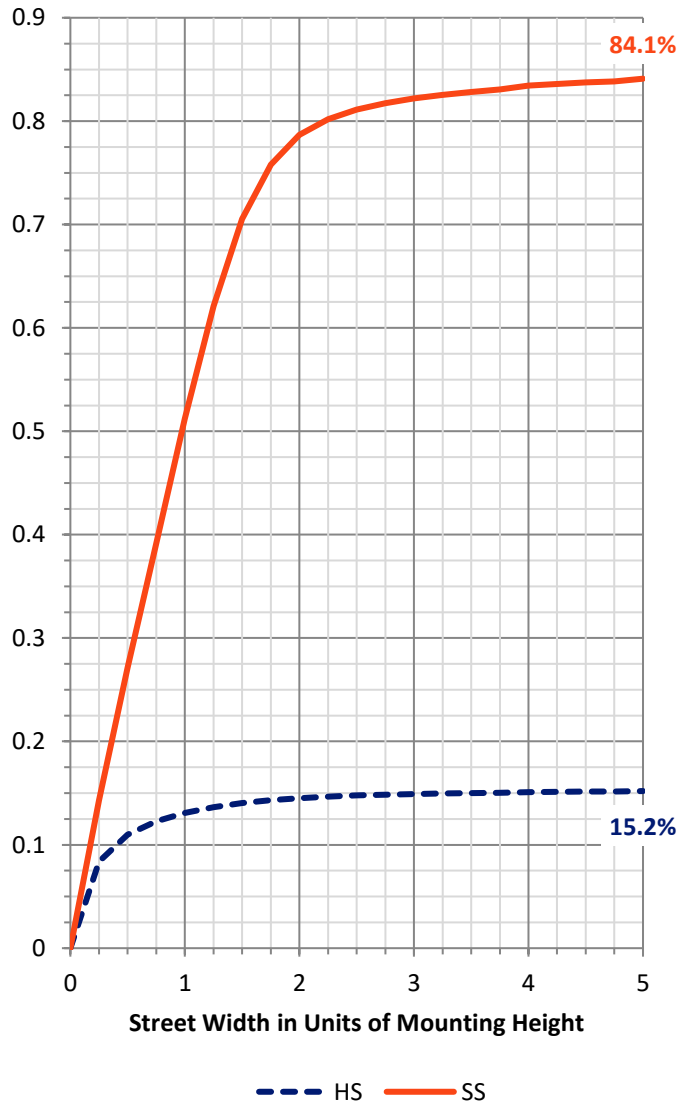
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3961.2	0.0	3961.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	21868.0	0.0	21868.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	25829.2	0.0	25829.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.8	2.3
10°-20°	1280.1	5.0
20°-30°	1655.0	6.4
30°-40°	2227.1	8.6
40°-50°	3551.3	13.7
50°-60°	6272.4	24.3
60°-70°	6900.5	26.7
70°-80°	2886.6	11.2
80°-90°	461.3	1.8
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°	25829.2	100.0
0°-180°	25829.2	100.0

**Coefficient of Utilization**



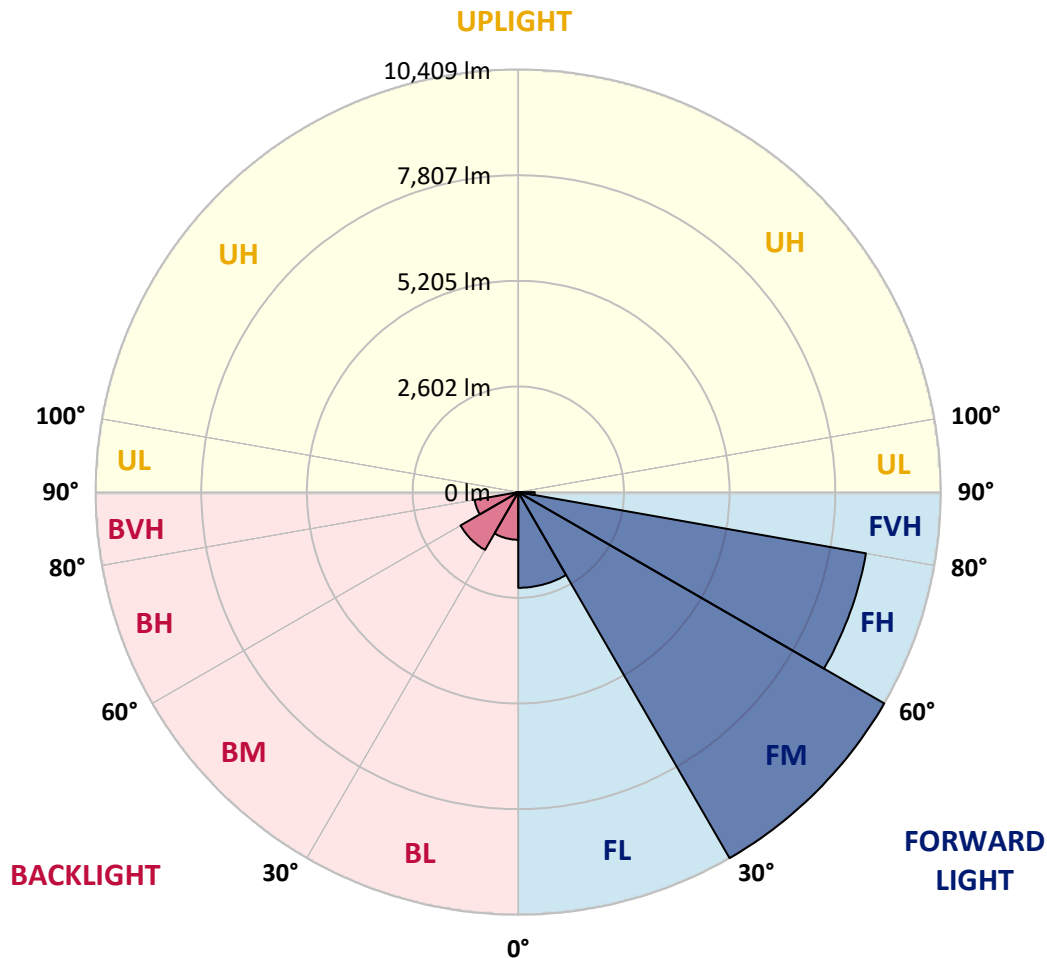
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.8	9.1			
FM (30°-60°)	10409.1	40.3			
FH (60°-80°)	8694.9	33.7			G4/12000
FVH (80°-90°)	407.2	1.6			G3/500
BL (0°-30°)	1173.1	4.5	B3/2500		
BM (30°-60°)	1641.7	6.4	B2/2500		
BH (60°-80°)	1092.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	54.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7
2.5°	7294.5	7306.1	7306.1	7329.3	7250.9	7288.6	7282.8	7248.0	7259.6	7198.6	7137.5
5°	7088.1	7079.4	7125.9	7131.7	7192.7	7210.2	7224.7	7201.5	7207.3	7073.6	7015.5
7.5°	6559.2	6556.3	6634.8	6701.6	6829.5	6948.6	7027.1	7003.8	7035.8	6951.5	6814.9
10°	5931.5	5998.3	6079.7	6146.5	6381.9	6533.0	6736.5	6756.8	6878.9	6858.5	6611.5
12.5°	5460.7	5489.7	5550.8	5742.6	5957.6	6207.6	6498.2	6524.3	6643.5	6701.6	6486.5
15°	5074.2	5100.3	5178.8	5321.2	5562.4	5858.8	6227.9	6294.7	6533.0	6553.4	6323.8
17.5°	4792.3	4812.6	4864.9	5007.3	5204.9	5585.6	5934.4	6053.5	6367.4	6466.2	6155.2
20°	4681.8	4638.2	4667.3	4757.4	4955.0	5248.5	5699.0	5803.6	6204.6	6399.4	5995.4
22.5°	4632.4	4594.6	4612.1	4606.3	4763.2	4972.4	5446.1	5556.6	6050.6	6320.9	5853.0
25°	4670.2	4670.2	4652.8	4638.2	4655.7	4792.3	5173.0	5344.4	5844.3	6254.1	5707.7
27.5°	4873.6	4795.2	4803.9	4742.9	4725.4	4725.4	5050.9	5152.6	5777.4	6216.3	5588.5
30°	5004.4	5042.2	5045.1	4955.0	4864.9	4702.2	4937.6	5036.4	5722.2	6262.8	5518.8
32.5°	5338.6	5321.2	5271.8	5254.3	5120.7	4937.6	4992.8	5059.6	5690.3	6367.4	5539.1
35°	5672.8	5664.1	5667.0	5658.3	5518.8	5248.5	5141.0	5231.1	5748.4	6550.5	5608.9
37.5°	6018.7	6041.9	6140.7	6140.7	5992.5	5699.0	5556.6	5530.4	5960.5	6849.8	5774.5
40°	6364.5	6422.6	6547.6	6745.2	6536.0	6262.8	6033.2	5992.5	6216.3	7250.9	6172.7
42.5°	6695.8	6791.7	7038.7	7332.2	7262.5	6989.3	6684.2	6637.7	6742.3	7846.6	6727.8
45°	7120.1	7201.5	7590.9	8041.3	8137.2	7896.0	7538.6	7500.8	7495.0	8718.5	7492.1
47.5°	7765.3	7852.4	8241.9	8695.2	8991.7	9029.4	8628.4	8587.7	8448.2	9895.5	8610.9
50°	8573.2	8715.6	9044.0	9572.9	10003.0	10407.0	10293.6	10174.5	9901.3	11264.3	10029.2
52.5°	9163.1	9337.5	9782.1	10459.3	11217.8	11860.0	12266.9	12266.9	11639.2	12766.8	11735.1
55°	9320.1	9424.7	9985.6	10964.9	12264.0	13888.5	14740.0	14676.1	13708.4	14347.7	13720.0
57.5°	8695.2	8831.8	9511.9	10537.7	12813.3	15786.3	17195.7	17210.3	15969.3	16184.4	15678.7
60°	6974.8	7018.4	7820.5	9192.2	12284.3	17314.9	20549.4	20604.7	18541.3	17820.6	16675.5
62.5°	4821.3	4960.8	5565.3	6768.4	10177.4	17143.4	23784.0	24057.2	20601.8	18683.7	16832.5
65°	3173.5	3257.8	3580.4	4312.7	7085.2	14859.2	24789.5	25632.3	22176.9	18733.1	16175.7
67.5°	2301.7	2316.2	2412.1	2789.9	4257.5	10685.9	23072.0	24260.6	22766.8	18320.4	14635.4
70°	1859.9	1871.6	1906.4	2147.7	2749.2	6687.1	18817.4	20680.2	20997.0	16364.6	11787.4
72.5°	1511.2	1525.7	1569.3	1796.0	2266.8	3719.9	13760.7	16030.4	17079.5	12107.1	7835.0
75°	1188.6	1200.2	1304.9	1528.6	2130.2	2554.5	9128.2	11351.5	11493.9	7076.5	3667.6
77.5°	813.7	834.1	961.9	1296.1	2005.2	2234.8	5690.3	7271.2	6524.3	2769.6	1261.3
80°	517.3	546.4	621.9	982.3	1772.8	2133.1	3539.7	4341.8	2856.8	947.4	607.4
82.5°	305.1	334.2	409.8	636.4	1392.0	1979.1	2493.5	2717.3	1339.7	485.3	366.2
85°	168.6	188.9	247.0	383.6	816.6	1758.2	1996.5	1950.0	767.2	258.6	229.6
87.5°	55.2	63.9	90.1	154.0	337.1	828.3	1197.3	1124.7	398.1	119.2	90.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7	7102.7
2.5°	7096.8	7088.1	6957.3	6858.5	6690.0	6550.5	6495.3	6419.7	6416.8	6361.6	6347.1
5°	6925.4	6835.3	6634.8	6443.0	6143.6	5943.1	5760.0	5632.1	5579.8	5466.5	5440.3
7.5°	6704.5	6585.4	6277.3	5916.9	5565.3	5251.4	4966.6	4681.8	4522.0	4466.8	4405.7
10°	6474.9	6265.7	5809.4	5405.5	4914.3	4431.9	3984.3	3583.3	3365.3	3211.3	3144.5
12.5°	6291.8	6012.8	5431.6	4827.1	4179.1	3533.9	3013.7	2592.3	2345.3	2229.0	2176.7
15°	6085.5	5716.4	5018.9	4254.6	3446.7	2714.4	2205.8	1874.5	1775.7	1720.4	1711.7
17.5°	5867.5	5440.3	4571.4	3690.8	2731.8	2043.0	1714.6	1581.0	1537.4	1514.1	1502.5
20°	5664.1	5193.3	4112.2	3063.1	2138.9	1639.1	1485.0	1415.3	1412.4	1424.0	1421.1
22.5°	5376.4	4870.7	3658.9	2481.9	1708.8	1426.9	1328.1	1310.7	1328.1	1342.6	1348.5
25°	5213.6	4606.3	3153.2	1970.4	1412.4	1267.1	1235.1	1229.3	1255.5	1272.9	1270.0
27.5°	5045.1	4333.1	2682.4	1578.0	1238.0	1153.7	1147.9	1153.7	1179.9	1206.1	1203.1
30°	4914.3	4115.1	2240.6	1319.4	1104.3	1072.4	1066.6	1072.4	1086.9	1089.8	1089.8
32.5°	4806.8	3856.5	1865.8	1145.0	1023.0	996.8	1002.6	999.7	1002.6	1005.5	1008.4
35°	4742.9	3702.4	1557.7	1037.5	956.1	935.8	932.9	924.2	927.1	930.0	927.1
37.5°	4879.4	3626.9	1313.6	961.9	909.6	892.2	886.4	880.6	871.8	871.8	871.8
40°	5085.8	3586.2	1165.4	912.5	874.8	854.4	837.0	831.2	831.2	834.1	837.0
42.5°	5495.5	3653.0	1063.7	874.8	831.2	807.9	790.5	793.4	802.1	810.8	805.0
45°	6088.4	3856.5	1017.2	845.7	805.0	773.0	761.4	758.5	767.2	781.8	793.4
47.5°	6864.3	4173.2	999.7	819.5	787.6	744.0	729.4	738.2	749.8	770.1	761.4
50°	8134.3	4885.3	1014.2	796.3	761.4	729.4	712.0	703.3	712.0	726.5	732.4
52.5°	9793.8	6178.5	1069.5	784.7	744.0	717.8	688.8	674.2	682.9	694.6	694.6
55°	11778.7	7945.4	1223.5	770.1	714.9	700.4	668.4	639.4	645.2	645.2	642.3
57.5°	13528.2	9279.4	1406.6	749.8	697.5	677.1	636.4	601.6	595.8	598.7	601.6
60°	14312.8	9633.9	1493.8	744.0	697.5	648.1	592.9	558.0	549.3	543.5	543.5
62.5°	14176.2	9020.7	1316.5	717.8	714.9	624.8	552.2	514.4	502.8	491.1	494.0
65°	13350.9	8146.0	1037.5	682.9	717.8	610.3	511.5	473.7	453.4	438.8	435.9
67.5°	11842.6	6954.4	822.4	656.8	688.8	584.1	476.6	433.0	415.6	401.0	395.2
70°	9264.8	5452.0	714.9	621.9	619.0	520.2	435.9	398.1	372.0	354.6	354.6
72.5°	6007.0	3446.7	613.2	552.2	534.7	435.9	377.8	354.6	334.2	319.7	319.7
75°	2720.2	1601.3	494.0	462.1	435.9	348.7	319.7	308.1	290.6	276.1	276.1
77.5°	976.5	682.9	369.1	363.3	325.5	270.3	258.6	249.9	238.3	223.8	223.8
80°	546.4	433.0	276.1	264.5	226.7	200.5	186.0	186.0	180.2	171.5	168.6
82.5°	345.8	281.9	203.4	177.3	148.2	133.7	127.9	125.0	122.1	110.4	107.5
85°	218.0	191.8	133.7	104.6	87.2	66.8	63.9	61.0	55.2	49.4	49.4
87.5°	98.8	110.4	52.3	32.0	23.2	14.5	8.7	2.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)